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witeg GERMANY

GENERAL CATALOG LABWARE

CATALOGUE GENERAL MATERIEL DE LABORATOIRE

witeg GERMANY

DIN EN ISO 9001

# GENERAL CATALOG LABWARE

# CATALOGUE GENERAL MATERIEL DE LABORATOIRE

all for your lab

GENERAL CATALOG

witeg


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# witeg GERMANY - all for your lab




Factory 1 - Production & Administration



Printing Department



Glass blowing



Color code bottles



Oven with bottles and flasks



Liquid Handling



Oven with measuring flasks



Factory 2 - Stock & Dispatch



Drilling of glass



Drilling of glass



Melting of glass



Measuring instruments



Adjustment of measuring cylinders



Adjustment of pipettes

# DIN EN ISO 9001

**Whenever you work according to EN ISO 9000 et seq., with the products of witeg you process it easily. Quality is our target to the benefit of our partnership.**

**Together with witeg into the future**

It is our aim to keep on translating our company's philosophy into reality, preliminarily quality to the benefit of our customers. We permanently perform investment of qualified and engaged collaboration in order to reach the optimum level of quality.

Furthermore, we stress to make use of the latest computer-aided equipment and technique which is necessary to obtain best performance and utmost quality.


CERTIFICATE

ISO 9001:2000

DEKRA Certification

witeg Labortechnik GmbH

09

**witeg-quality**
**certified according to DIN EN ISO 9001 at a very early stage**

Already in May 1994 we obtained the Certification "ISO 9001"ensuring officially that witeg complies with the highest international standards of requirement.

To our business partners this means confidence and reliability for a common safety handling of our products in the future. In order to offer high value instruments, in a period of tough international competition, it is important to rely on rational quality-ensuring economical processes. Eventually, we wish to remain powerful pricewise.

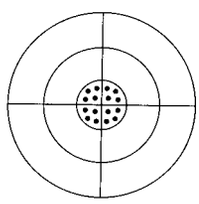
**Quality-assurance at the users, an additional achievement at no cost ... from witeg**

## Quality Assurance with Liquid Handling Products

**ACCURACY • REPRODUCIBILITY • STANDARD DEVIATION**

**Accuracy**
Is the deviation of mean value from the nominal value related to the nominal value in %.

**Reproducibility**
(Coefficient of variation)
is the standard deviation in % related to the mean value.



**Standard deviation**
after 16 pump-strokes with the Labmax-Dispenser - the target helps to illustrate the results: all hits are close together - that means:

**Good reproducibility**
All hits are closely around the nominal value - that means:

**Good accuracy.**

**Warranty**

witeg volumetric instruments (liquid handling products) are strictly manufactured in accordance to the quality assurance system defined by DIN EN ISO 9001
The symbol H certifies the conformity of its production with the official specifications, i.e. the German Rules for Official certification (Eichordung, Annex 12)

**The result:**

minute systematic errors, narrow scatters - permissible limits are not exceeded.

**TOP PRIORITY for our customers**
We wish to be a strong and reliable partner to our customers. We want our customers to be satisfied with us. For that reason we always have an open ear for questions or problems that may occur. That is what counts!

**And that you can expect from us:**
- high quality level
- fair and competitive prices
- friendly and competent staff
- speedy and professional order processing
- an open ear - even in case of special and small-lot productions
- large stocks of our products

**With witeg always a step ahead**

witeg manufactures and supplies a wide range of laboratory instruments, made from glass and plastics, as well as Liquid Handling products of highest precision to make the job of our customer easier, faster and safer f.e. with witeg volumetric measuring instruments - dependable results will only be possible, if the volumetric instruments employed for the sample preparation are equally accurate and reliable.

**• How to recognize the conformity certification?**
The instruments carry the symbol of conformity - a stylized "H" as well as the code of the issuer of the conformity certificate. For Disposables the "H" appears on the packaging and/or the accompanying documents.

**• What does conformity stand for?**
Conformity means compliance of an instrument with the German Rules for Official Certification (Eichordnung, Annex 12). The conformity certification procedure is described by DIN 12 600. The "Exemption from Certification Act" has become obsolete.

**• Which instruments must be conformity certified?**
The conformity certification is obligatory for the instruments mentioned under "conformity certification according to the Rules for Official Certification" and their volumetrically relevant accessories. Moreover, instruments and accessories belonging together must be clearly identified by the manufacturer. The crucial date is the 1st of January 1989. In the interest of a consistent quality of measurements, older instruments should be replaced by conformity certified instruments as soon as possible.

**• Official Certification and Conformity certification**
Germany's Rules for Official Certification - valid as of August 12, 1988 - call for a certification of conformity rather than for an official test certificate for volumetric instruments which are kept and used for commercial and pharmaceutical purposes. The same applies for volumetrically relevant accessories.

**• Who certifies conformity?**
In general, the manufacturer certifies the conformity of his production and - on request - the "Authority of Weights and Measures" as well.

**• Who is responsible for enforcing these regulations?**
The instrument manufacturer is responsible for the conformity of the instruments, the purchaser for the procuring and availability of conformity certified instruments and the head of the laboratory fot their use.

**• Conformity certification by witeg**
Since the above regulations have come into effect a new symbol is to be found on witeg instruments or their accompanying documents:

The H stands for conformity certification and W for Witeg, Wertheim. The symbol on the instruments may be supplemented by the symbol ⚠ which refers to the operating manual. These references must be strictly observed.
Witeg certifies the conformity for volumetric instruments of glass directly on the instrument, for disposable products on the smallest packing unit, and for Liquid Handling products on the instrument and/or an accompanying documents along with references to volumetrically relevant accessories.

The purpose of conformity certification is, to ensure a uniform and constant high level of quality in the sense of accurate measuring results.
Various terms are used to define measuring accuracy. "Error limit" or "absolute error" (/EL; compare Eichordung, Annex 12)! Accuracy (A%) and reproducibility (coefficient of variation, CV% or V%). "Accuracy" describes the deviation of the measured value from the nominal value - the smaller A% is - the better. "Reproducibility" describes the repeatability of the result - the smaller CV% is - the better. By agreement - the manufacturer my elther state EL, or A% and CV%.
The relation if defined by the following formula: ($V_N$ = Nominal volume)

$$FG\,[EL] \geq \frac{(R\%\,[A\%] + 2\,V\%\,[CV\%])}{100\,\%}\,V_N$$

This information is based on DIN 1319 T3 where the basic terms of measuring technology are defined. These values are maximum values.

**• Reproducibility and accuracy of witeg volumetric instruments**
The calibration of volumetric instruments is made by modern electronical adjusting automatons.
DIFFICO Graduated Measuring - and Volumetric Pipettes as well as Measuring Cylinders, Volumetric Flasks and Burettes are calibrated fully automatic and permanent checks during the manufacturing processes guarantees the production of volumetric instruments with the smallest possible deviation.
The results are minute systematic errors, narrow scatter without exhausting permissible limits.

witeg volumetric instruments are manufactured to the quality assurance system defined by DIN EN ISO 9001.

## The properties of the borosilicate glass we work with:

DURAN represents the internationaly estabilished type of borosilicate glas 3.3 (DIN-ISO 3585) and the major international standards as the English, American and French. Highest possible chemical restance, minimum thermal expansion as well as the thereby conditioned high thermal shock resistance are its essential characteristics. This optimum physical and chemical behaviour predisposes DURAN to the application in laboratories and for large industrial installations in chemical plant systems. It is considered moreover to be an all-round industrial glass in all other fields of application where maximum thermal resistance, thermal shock resistance, mechanical resistiance as well as unusal chemical resistance are required.

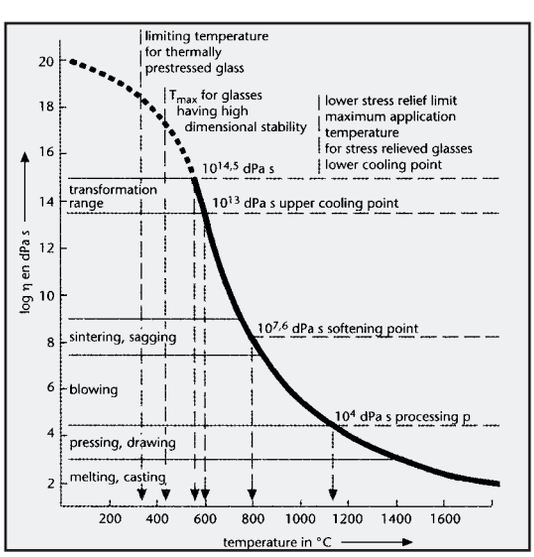
Below 510 °C ($10^{14.5}$ dPas, lower annealing temperature), DURAN can be annealed quickly, without major permanent stresses re-freezing.
To eliminate permanent stresses, DURAN is heated up to a maximum of 550 °C and maintained at said temperature during 30 minutes- For subsequent annealing the rates in the table below are recommended:

| **Type of Glases** | **Linarer coff. of expansion** | **Chemical reistant classes** | | | | |
|---|---|---|---|---|---|---|
| | **$\alpha$ 20/300 °C $10^{-6}$ $K^{-1}$** | **transforming temperature DIN 53 324 °C** | **softening temperature (poise) $10^{7.6}$ °C** | **Resist. against Water** | **Resist. against Acids** | **Resist. against Alcalic DIN 52 322** |
| Soda-lime glass | 9.0 | 520 | 708 | 3 | 1 | 2 |
| Borosilikate glass | 4,9 | 570 | 790 | 2 | 1 | 2 |
| DURAN® * | 3,25 | 530 | 815 | 1 | 1 | 2 |
| FIOLAX® * | 45,9 | 560 | 783 | 1 | 1 | 2 |
| SUPREMAX® * | 4,1 | 730 | 950 | 1 | 4 | 3 |
| Schott-Thermometer glass | 8,67 | 540 | 720 | 3 | 1 | 2 |
| Thermometer-Spezialglass | 6,2 | 590 | 790 | 1 | 3 | 2 |

## Physical properties and characteristics for the processing of DURAN by glassblowers

**Maximum use temperature: 500 °C**
**Transformation temperature DIN/ISO 3585: 525 °C**

Upon cooling from the melting temperature ($10^1$ bis $10^3$ poise), the glasses go through a wide range of viscosity, which ranges from a relatively viscous region (at about $10^4$ bis $10^8$ poise) to the plastic range ($10^8$ bis $10^{12}$ poise) and up into the know elastic-brittle state (>$10^{13}$ poise). Thus, glass shows a constant increase in viscosity upon cooling and has no soldification point as is the case for crystalline substances. For the processing of glass, certain sections of the viscosity range are of particular importance. In the transformation range, the elastic-britle behaviour of the glass changes to a noticeably viscous behaviour with increasing temperature, which significantly changes all physical and chemical properties as a function of temperature. Thus, the Temperature region of the transformation range determines the elimination of stress during heating and the onset of stresses during cooling of the glass. The position of the transformation range is indicated by the transformation temperature $T_g$ DIN 52324.




Normal temperature dependence /viscosity curve of, for example, DURAN; viscosity ranges of important processing techniques, position of fixed points of viscosity and various limiting temperatures.

## Chemical properties of DURAN®

DURAN is highly resistant to water, neutral and acid solutions, concentrated acids and their mixtures, as well as to chlorine, bromine, iodine and organic matters. Even during extended periods of reaction and at temperatures above 100 °C, its chemical resistance exceeds that of most metals and other materials.
By the action of water and acids only small amounts of mainly monovalent ions are eliminated from the glass. On the glass surface, a very thin, almost non-porous silica gel layer then forms inhibiting any further attack.
Only hydrofloric acid, very hot phosphoric acid and alkaline solutions increasingly attack the glass surface with rising concentration and temperature.
The chemical resistance of different glass types and their classification in stability classes are determined in Germany according to the standard methods DIN 12111, 12116 and 52322. On the basis of these methods, DURAN meets all requirements of

| | |
|---|---|
| **hydrolytic class** | **1** |
| **acid class** | **1** |
| **alkaline solution class** | **2** |

## Acid resistance according to DIN 12116 / DIN ISO 1776

Removal of $Na_2O$ < 100 µg/dm²
The attack curves in Figure 3 show a maximum in acid ranges between 4-7 N (HCl,for example in the azeotrope containing 20.2 % by weight). At higher concentrations, the reaction rate decreases significantly, so that the layer thicknesses which are attacked are only in the range of a few thousandths of a millimetre after years. Thus, the mechanisms of acid attack are not relevant given the wall thicknesses used in practice. Therefore, it is rightly called "acid-resistant borosilicate glass".

## Alkali resistance according to DIN 52322

Alkali resistance class DIN 52322-A2 (corresponds to alkali resistance class ISO 695-A2). The surface removal curve in Figure 4 shows that visible attack on the glass surface does not take place until above about 60 °C. At lower temperatures (incorporation of coolers in the NaOH cycle), the reaction rates are so low that hardly any reduction of the wall thickness takes place over a period of year. Longterm tests have shown that the use of NaOH having a concentration of 1 mol/l (corresponds to 4 % strength by weight sodium hydroxide solution, pH 14) at an operating temperature of 50 °C gives a glass surface removal of 1 mm after 25 years in a continuous flow through a glass pipeline.

Abridgement „Properties of glass" by favour of company DURAN Groupe, Mainz

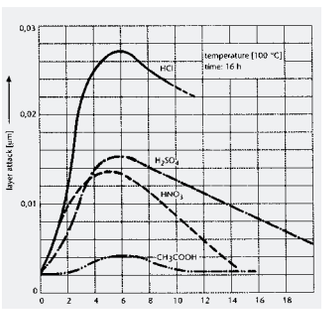



**Fig. 3:**
Acid attack on borosilicate glass as a function of acid concentration.

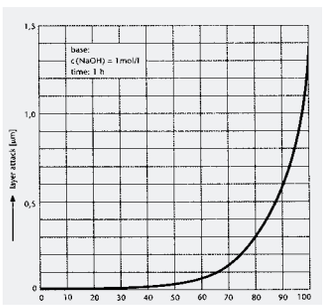



**Fig. 4:**
Alkali attack on DURAN as a function of temperature.

### Hydrolytic resistance according to ISO 719 (98 °C)

Hydrolytic resistance by the glass grain method class ISO 719-HGB 1 (corresponds to the previous DIN 12111, hydrolytic class 1).

### Hydrolytic resistance according to ISO 720 (121 °C)

Hydrolytic resistance by the glass grain method class ISO 720-HGA 1.

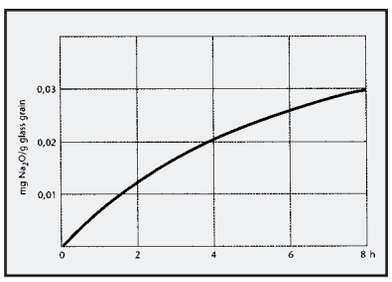



**Fig. 2:**
Hydrolytic attack on DURAN as a function of time (100 °C) approx. to ISO 719.

# Plastics

## PHYSICAL AND CHEMICAL PROPERTIES

Due to so many advantages as breakage resistance, low weight, very good chemical resistance and their good physical properties laboratory instruments made from plastics have nowadays their proper place in laboratories. Which plastics can be used in the laboratories is dependend of well-informed evaluation of the user.
The below mentioned recommendations of the raw-material manufacturers are intended only as a hint to find a decision and can not replace a suitability test by the user.

**Internationally used abbreviations and standard norms of plastic resins (according to DIN 7723/7728)**
Since we can give only a selsection of the most commonly used plastic resins for the production of labor items and their physical and chemical properties, you will find below an index of nearly all abbreviations used in the plastic industry.
This list will help you to a better orientation when using technical/scientific literature.

| DIN abb. | Specifications |
|---|---|
| ABS | Acrylonitrile-butadiene-styrene copolymer |
| HDPE | High density polyethylene (PE) |
| LDPE | Low density polyethylene (PE) |
| MF | Melamine |
| PA | Polyamide |
| PC | Polycarbonate |
| PE | Polyethylene |
| PMP | Poly-4-methylpentene |
| PMMA | Polymethyl-methacrylate |
| POM | Polyoxymethylene, polyacetal |
| PP | Polypropylene |
| PS | Polystyrene |
| SAN | Styrene-acrylonitrile copolymer |
| SI | Silicones |
| PVDF | Polyvinylfluoride |
| PTFE | Polytetrafluorethylene |
| E-CTFE | Ethylene-chlortrifluorethylene |
| ETFE | Ethylene-tetrafluorethylene |
| PFA | Perfluoralkoxy (Hostaflon*) |
| FEP | Polytetrafluorethylene-Perfluorpropylene |
| PVC | Polyvinylchlorid |
| EPM | Ethylene-propylene copolymers |
| PO | Polyolefines |

**THERMICAL RESISTANCE**

| DIN Abk. | Perm. temp. stress | Range of application °C (short period) |
|---|---|---|
| ABS | | + 90 / + 105 |
| C | + 100 | |
| HDPE | - 40 | + 110 |
| LDPE | - 40 | + 95 / + 100 |
| M | - 40 | + 120 / + 140 |
| PA | | + 140 (moistly) |
| PC | - 190 | + 135 / + 160 |
| PE | look at HDPE / LDPE | |
| PF | | + 100 |
| PETP | - 40 | + 200 / + 250 |
| PFEP | - 100 / - 170 | + 205 / + 260 |
| PMMA | **- 60** | **+ 70 / + 95** |

**THERMICAL RESISTANCE**

| DIN Abk. | Perm. temp. stress | Range of application °C (short period) |
|---|---|---|
| POM | - 40 | + 90 / + 145 |
| PP | - 10 / - 25 | + 140 |
| PPO | | + 130 / + 140 |
| PS | - 40 | + 70 / + 90 |
| PTFE | - 200 / - 270 | + 260 / + 300 |
| PUR | | + 74 / + 175 |
| PVC | | + 40 / + 80 |
| SAN | - 49 | + 95 / + 110 |
| SIR | - 50 / - 100 | + 180 / + 300 |
| TPX | - 180 | + 180 / + 200 |
| UF | | + 100 |

**Sterilisation of Plastic-Labware**

| DIN | Autoklav | Gas (Ethylenoxid) | dry 160 ° | chemical (Formalin) | Y-rays |
|---|---|---|---|---|---|
| ABS | no | yes | no | yes | yes |
| HDPE | no | yes | no | yes | yes |
| LDPE | no | yes | no | yes | yes |
| PC | yes* | yes | no | yes | yes |
| PFA/FEP | yes | yes | yes | yes | no |
| PMP (TPX) | yes | yes | no | yes | no |
| PP | yes | yes | no | yes | no |
| PS | no | yes | no | yes | yes |
| PTFE | yes | yes | yes | yes | no |
| ETFE/ECTFE | yes | yes | yes | yes | no |
| PVC | no | yes | no | yes | no |
| SI | yes | yes | yes | yes | no |

* autoclavable at 121 °C/20 min.

Abridgement by favour of company Vitlab.

# Plastic resins and their properties

| Chemicals at 20 or 50 °C, resp. | | C/MF | ETFE E-CTFE 50 | PAG 20 | PC 20 | PE 50 | PMMA 50 | POM 50 | PP 50 | PS 50 | FEP, PFA PTFE 50 | PVC 20 | SAN 50 | PMP (TPX) 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetaldehyde | $CH_3CHO$ | | ++ | + | - | 0 | -- | | 0 | -- | ++ | -- | -- | |
| Aceton | $CH_3COCH_3$ | ++ | ++ | + / 1 | -- | ++ | | + | 0 | -- | ++ | -- | -- | 0 |
| Acetophenone | $C_6H_5COCH_3$ | ++ | ++ | | | | | | 0 | -- | ++ | | -- | 0 |
| Ethyl acetate | $C_2H_5COOCH_3$ | ++ | + | + / 1 | 0 | 0 | -- | | 0 | -- | ++ | -- | -- | 0 |
| Ethyl alcohol 96 % | $C_2H_5OH$ | ++ | ++ | + / 9 | ++ | ++ | - | | ++ | ++ | ++ | ++ | - | ++ |
| Ethylene chloride | $H_2C$-$CHCl_2$ | | ++ | + / 2 | -- | - | -- | | - | -- | ++ | | -- | - |
| Ethylene glycol | $HOH_2C$-$CH_2OH$ | ++ | ++ | ++ | | ++ | ++ | | ++ | ++ | ++ | ++ | ++ | ++ |
| Allyl alcohol | $H_2C$=$CH$-$CH_2OH$ | | ++ | 0 | ++ | 0 | | | ++ | - | ++ | | -- | |
| Aluminium chloride | $AlCl_3$ | ++ | + | ++ | ++ | + | ++ | | ++ | ++ | ++ | | ++ | ++ |
| Formic acid 85 % | HCO-OH | ++ | ++ | -- | -- | ++ | -- | -- | + | - | ++ | ++ | - | + |
| Ammonia 25 % aq. soln. | | | ++ | -- | -- | ++ | - | ++ | ++ | + | ++ | | + | ++ |
| Ammonia | $NH_3$ | | ++ | | | ++ | | | ++ | | ++ | | | |
| Ammonium chloride aq. soln | $NH_4Cl$ | | ++ | | ++ | ++ | ++ | | ++ | ++ | ++ | | ++ | ++ |
| Amyl acetate (Pentyl acetate) | $CH_3$-$COOC_5$-$H_{11}$ | | ++ | + / 2 | | ++ | | | ++ | -- | ++ | | -- | |
| Amyl alcohol | $C_5H_{11}OH$ | ++ | ++ | ++ | | ++ | | | ++ | 0 | ++ | ++ | - | ++ |
| Aniline | $C_6H_5NH_2$ | | ++ | 0 / 1 | | + | -- | | + | -- | ++ | -- | -- | ++ |
| Arsenic acid | $H_3AsO_4$ | | ++ | | ++ | + | | | ++ | ++ | ++ | | | |
| Benzaldehyde | $C_6H_5$-CHO | | ++ | 0 / 2 | | + | - | | + | -- | ++ | | -- | ++ |
| Benzene | | ++ | ++ | ++ | ++ | - | | ++ | - | -- | ++ | -- | -- | 0 |
| Benzole | $C_6H_6$ | ++ | ++ | + | -- | -- | -- | 0 | -- | -- | ++ | -- | -- | |
| Lead acetate | $(CH_3$-$COO)_2Pb{\cdot}3H_2o$ | | ++ | | ++ | | | | -- | | | | | |
| Lead acetate aq. soln. | | | ++ | 0 | ++ | | | | -- | ++ | ++ | | ++ | |
| Boric acid 10 % aq. soln. | $H_3BO_3$ | | ++ | ++ / 8 | | ++ | | | ++ | + | ++ | | ++ | ++ |
| Hydrobromic acid 69 % | $HBr{\cdot}2H_2O$ | | ++ | - | | + | | | + | -- | ++ | | | |
| Butyl acetate | $CH_3COOC_4H_9$ | | ++ | + / 1 | | 0 | -- | 0 | 0 | -- | ++ | | -- | 0 |
| Calcium chloride aq.soln. | $CaCl_2$ | | ++ | ++ / 9 | | ++ | ++ | ++ | ++ | ++ | ++ | | ++ | ++ |
| Calcium hypochloride aq. soln. | $Ca(OCl)_2$ | | | ++ | ++ | ++ | 0 | | ++ | + | ++ | | ++ | ++ |
| Chloride | Cl | | ++ | | | -- | | | -- | -- | ++ | -- | -- | -- |
| Chlorobenzene | $C_6H_5Cl$ | | ++ | ++ / 2 | -- | - | | | | -- | ++ | | -- | |
| Chloroform | $CHCl_3$ | ++ | ++ | 0 / 5 | -- | -- | -- | | -- | -- | ++ | | -- | - |
| Chloururetted (chlorine-) water | (HCl)-(HOC) | | ++ | -- | | - | ++ | | - | - | ++ | 0 | 0 | - |
| Chromic acid 20 % | $CrO_3$ | | ++ | | ++ | -- | | | - | + | ++ | ++ | 0 | |
| Chromatosulphuric acid conc. | $H_2SO_4$-$K_2Cr_2O_7$ | | ++ | | | -- | | | -- | - | ++ | 0 | - | -- |
| Decahydronaphthalene (Decalini) | $C_{10}H_{18}$ | | | | | | | | | | | | | |
| (Perhydronaphthalene) | | | ++ | ++ / 1 | ++ | -- | 0 | | -- | -- | ++ | | -- | - |
| Diethyl ether | $H_5C_2$-O-$C_2H_5$ | | ++ | | | + | - | | + | -- | ++ | | -- | 0 |
| Dibutyl phthalate | $C_6H_4(COOC_4H_9)_2$ | | ++ | ++ | | 0 | 0 | ++ | + | -- | ++ | | -- | + |
| 1.4 Dioxane | $C_4H_8O_2$ | | ++ | ++ | -- | ++ | | | ++ | | ++ | | | ++ |
| Chrystalline (glacial) acetic acid | $CH_3COOH$ | 0 | ++ | -- | -- | ++ | | + | + | 0 | ++ | ++ | - | 0 |
| Fluorine | F(FI) | | - | ++ | | -- | | | -- | | ++ | | | |
| Fluorinated hydrocarbons | | | ++ | | | -- | | | - | -- | ++ | | - | |
| Hydrofluoric acid 35 % | $(HF)_2$ | -- | ++ | -- | -- | ++ | - | | ++ | + | ++ | | 0 | ++ |
| Formaldehyde | HCHO | | ++ | ++ / 10 | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | - | ++ |
| Glycerine | $CH_2OH$-$CHOH$-$CH_2OH$ | ++ | ++ | ++ / 1 | ++ | ++ | ++ | ++ | ++ | ++ | ++ | | ++ | ++ |
| Urea (carbamide and others) | $H_2N$-$CO$-$NH_2$ | ++ | ++ | ++ | | ++ | | | ++ | + | ++ | | ++ | ++ |
| Hexane | $CH_3$-$(CH_2)_4$-$CH_3$ | | ++ | ++ | | 0 | ++ | ++ | 0 | - | ++ | | ++ | + |
| Iodine (tincture of ..) | | | ++ | -- | ++ | + | -- | | + | 0 | ++ | | 0 | ++ |
| Potassium chloride aq. soln. | KCl | | ++ | | ++ | | | | | | ++ | | | |
| Potassium hydroxide | KOH | + | ++ | ++ | | ++ | ++ | | ++ | 0 | ++ | ++ | + | ++ |
| Potassium permanganate aq. soln. | $KMnO_4$ | | ++ | -- | ++ | ++ | ++ | ++ | ++ | 0 | ++ | | + | ++ |
| Aqua regia | $(HNO_3)$ (HCl) $HNO_3$+ 3 HCl NOCl + $Cl_2$ + $2H_2O$ | -- | ++ | -- | | - | | | - | - | ++ | - | | 0 |
| Cupric sulphate aq. soln. | $CuSO_4$ | | ++ | ++ | ++ | ++ | ++ | | ++ | ++ | ++ | | ++ | |
| Magnesium chloride aq. soln. | $MgCl_2$ | | ++ | + / 7 | ++ | | ++ | | ++ | ++ | ++ | | ++ | |
| Methyl alcohol (methanol) | $CH_3OH$ | | ++ | ++ / 9 | -- | ++ | -- | | ++ | + | ++ | | - | ++ |
| Methylene chloride | $CH_2Cl_2$ | | ++ | 0 / 10 | -- | -- | | | | -- | ++ | | -- | |
| Sodium carbonate | $Na_2CO_3$ | | ++ | ++ 7 | | ++ | ++ | ++ | ++ | + | ++ | ++ | + | ++ |
| Sodium dichromate | $Na_2Cr_2O_7$ | | ++ | ++ | ++ | ++ | ++ | + | ++ | ++ | ++ | ++ | | ++ |
| Sodium hydroxide | NaOH | 0 | | ++ | -- | ++ | + | | ++ | + | ++ | ++ | 0 | ++ |
| Oxalic acid, 10% aq. soln. | HOOC-COOH | | ++ | 0 / 8 | ++ | ++ | ++ | | ++ | ++ | ++ | ++ | ++ | ++ |
| Ozone < 0.5 ppm (active oxygen) | $O_3$ | | | | | | | | | | | | | |
| Perchloroethylene | $Cl_2C$=$CCl_2$ | | ++ | -- | ++ | - | ++ | | 0 | + | ++ | | ++ | - |
| Phenol 100% (crystals) | $CH_5H_5OH$ | | ++ | -- | -- | ++ | -- | -- | ++ | - | ++ | - | -- | ++ |
| Phosphoric acid | $H_3PO_4$ | -- | ++ | -- | ++ | + | -- | 0 | + | + | ++ | ++ | + | + |
| Phosphorus trichloride | $PCl_3$ | | | | -- | ++ | | | | | | | | |
| Pyridine | $C_5H_5N$ | | ++ | ++ | -- | + | -- | | + | -- | ++ | | -- | + |
| Mercury | Hg | | ++ | ++ | ++ | ++ | ++ | | ++ | ++ | ++ | ++ | ++ | ++ |
| Mercurous+mercuric chlorid | $Hg_2Cl_2$ + $HgCl_2$ | | ++ | | ++ | ++ | ++ | | ++ | 0 | ++ | | ++ | ++ |
| Nitric acid 50 % conc. | $HNO_3$ | - | ++ | -- | -- | 0 | - | -- | - | 0 | ++ | ++ | 0 | ++ |
| Hydrochloric acid (hydrogen chloride) | HCl | | ++ | -- | ++ | ++ | ++ | -- | ++ | 0 | ++ | | 0 | ++ |
| Sulphuric acid 95 % | $H_2SO_4$ | | ++ | -- | -- | + | -- | -- | + | - | ++ | | -- | ++ |
| Silver nitrate | $AgNO_3$ | | ++ | | ++ | ++ | ++ | | ++ | + | - | | + | |
| Carbon tetrachloride | $CCl_4$ | ++ | ++ | ++ / 1 | -- | - | -- | + | 0 | -- | ++ | -- | -- | 0 |
| Tetrahydrofuran | THF | ++ | ++ | ++ / 2 | -- | - | | | - | -- | ++ | | -- | -- |
| Toluene | $C_6H_5CH_3$ | | ++ | ++ / 1 | -- | - | -- | ++ | - | -- | ++ | - | | 0 |
| Trichloroethylene | $C_2H_3Cl_3$ | ++ | ++ | 0 / 2 | ++ | -- | -- | 0 | - | -- | ++ | -- | -- | 0 |
| Tri-sodium phosphate | $Na_3PO_4$ | | ++ | ++ | | ++ | | | ++ | | ++ | | | |
| Hydrogen peroxide 30% | $H_2O_2$ | 0 | ++ | 0 | ++ | ++ | 0 | - | ++ | | ++ | ++ | | |
| Xylene | $C_6H_4(CH_3)_2$ | | ++ | | -- | -- | -- | ++ | - | 0 | ++ | -- | -- | 0 |
| Zinc chloride 10% aq. soln. | $ZnCl_2$ | | ++ | 0 / 7 | ++ | ++ | ++ | | ++ | 0 | ++ | | ++ | ++ |
| Zinc sulphate 10% aq. soln. | $SnSO_4$ | | ++ | | ++ | ++ | | | ++ | ++ | ++ | | ++ | |

++ resistant
\+ virtually resistant
0 reistant with exceptions
\- slightly resistant
-- non resistant

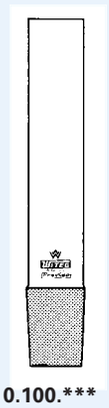
The numbers written behind the / give the percentage increase in weight.
The figures shown below the material (20 or 50, resp.) refer to the temperature of the test substance in °C.

The physical chart as well as the chemical resistance chart is carefully checked to our experience, and based on the information given by the producers of existing literature.

For the above reason we cannot give any guaranty, and cannot be made responsible for the given information, nor accept claims for damage. We cannot undertake to pay any compensation.

Of course ist will be our service to give you further information if requested.

# Ground joints
## *Rodages*



**0.100.*****

**ST-Cones acc. to DIN 12 249,** made of borosilicate glass

***Allonges à rodage conique mâle,** en verre borosilicaté*

| ST<br>*Rodage* | Outer Ø<br>*Ø. ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5/13 | 4 | 120 | 0.8 | **0.100.005** |
| 7/16 | 6 | 120 | 1.5 | **0.100.007** |
| 10/19 | 8 | 120 | 1.5 | **0.100.010** |
| 12/21 | 11 | 120 | 1.5 | **0.100.012** |
| 14/23 | 13 | 120 | 1.5 | **0.100.014** |
| 19/26 | 17 | 150 | 1.8 | **0.100.019** |
| 24/29 | 22 | 150 | 1.8 | **0.100.024** |
| 29/32 | 26 | 150 | 2.0 | **0.100.029** |
| 34/35 | 30 | 150 | 2.0 | **0.100.034** |
| 40/38 | 36 | 150 | 2.0 | **0.100.040** |
| 45/40 | 40 | 150 | 2.3 | **0.100.045** |
| 50/42 | 46 | 180 | 2.3 | **0.100.050** |
| 55/44 | 50 | 180 | 2.5 | **0.100.055** |
| 60/46 | 56 | 180 | 2.5 | **0.100.060** |
| 71/51 | 65 | 200 | 3.2 | **0.100.071** |
| 85/55 | 80 | 200 | 3.5 | **0.100.085** |
| 100/60 | 90 | 200 | 3.5 | **0.100.100** |

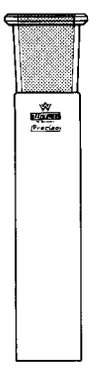


**0.101.*****

**ST-Cones full length,** made of borosilicate glass

***Allonges à rodage conique mâle, long,** en verre borosilicaté*

| ST<br>*Rodage* | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5/20 | 4 | 120 | 0.8 | **0.101.005** |
| 7/25 | 6 | 120 | 1.5 | **0.101.007** |
| 10/30 | 8 | 120 | 1.5 | **0.101.010** |
| 12/32 | 11 | 120 | 1.5 | **0.101.012** |
| 14/35 | 13 | 120 | 1.5 | **0.101.014** |
| 19/38 | 17 | 150 | 1.8 | **0.101.019** |
| 24/40 | 22 | 150 | 1.8 | **0.101.024** |
| 29/42 | 26 | 150 | 2.0 | **0.101.029** |
| 34/45 | 30 | 150 | 2.0 | **0.101.034** |
| 45/50 | 40 | 150 | 2.3 | **0.101.045** |



**0.102.*****

**ST-Sockets acc. to DIN 12 249,** made of borosilicate glass

***Allonges à rodage conique femelle,** en verre borosilicaté*

| ST<br>*Rodage* | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5/13 | 8 | 120 | 0.8 | **0.102.005** |
| 7/16 | 10 | 120 | 1.5 | **0.102.007** |
| 10/19 | 13 | 120 | 1.5 | **0.102.010** |
| 12/21 | 15 | 120 | 1.8 | **0.102.012** |
| 14/23 | 17 | 120 | 1.8 | **0.102.014** |
| 19/26 | 22 | 125 | 1.8 | **0.102.019** |
| 24/29 | 28 | 135 | 2.0 | **0.102.024** |
| 29/32 | 33 | 135 | 2.0 | **0.102.029** |
| 34/35 | 40 | 150 | 2.3 | **0.102.034** |
| 40/38 | 46 | 150 | 2.3 | **0.102.040** |
| 45/40 | 50 | 150 | 2.5 | **0.102.045** |
| 50/42 | 56 | 180 | 2.5 | **0.102.050** |
| 55/44 | 60 | 180 | 3.2 | **0.102.055** |
| 60/46 | 65 | 180 | 3.2 | **0.102.060** |
| 71/51 | 75 | 200 | 3.2 | **0.102.071** |
| 85/55 | 90 | 200 | 3.5 | **0.102.085** |
| 100/60 | 110 | 200 | 5.0 | **0.102.100** |

**ST-Sockets full length,** made of borosilicate glass

***Allonges à rodage conique femelle, long,*** *en verre borosilicaté*

| ST<br>*Rodage* | Outer Ø<br>*Ø. ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5/20 | 8 | 120 | 0.8 | **0.103.005** |
| 7/25 | 10 | 120 | 1.5 | **0.103.007** |
| 10/30 | 13 | 120 | 1.5 | **0.103.010** |
| 12/32 | 15 | 120 | 1.8 | **0.103.012** |
| 14/35 | 17 | 120 | 1.8 | **0.103.014** |
| 19/38 | 22 | 125 | 1.8 | **0.103.019** |
| 24/40 | 28 | 135 | 2.0 | **0.103.024** |
| 29/42 | 33 | 135 | 2.0 | **0.103.029** |
| 34/45 | 40 | 150 | 2.3 | **0.103.034** |
| 45/50 | 50 | 150 | 2.5 | **0.103.045** |



**0.103.*****

**PTFE-Sleeves with rips**

***Manchons avec nervures, en téflon (PTFE)***

| ST<br>*Rodage* | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 7/16 | 0.05 | **0.106.007** |
| 10/19 | 0.05 | **0.106.010** |
| 12/21 | 0.05 | **0.106.012** |
| 14/23 | 0.05 | **0.106.014** |
| 19/26 | 0.05 | **0.106.019** |
| 24/29 | 0.05 | **0.106.024** |
| 29/32 | 0.05 | **0.106.029** |
| 34/35 | 0.05 | **0.106.034** |
| 45/40 | 0.05 | **0.106.045** |
| 50/42 | 0.05 | **0.106.050** |
| 55/44 | 0.05 | **0.106.055** |
| 60/46 | 0.05 | **0.106.060** |



**0.106.*****

**PTFE-Sleeves with gripping ring**

***Manchons avec anneau, en téflon (PTFE)***

| ST<br>*Rodage* | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 10/19 | 0.05 | **0.106.110** |
| 12/21 | 0.05 | **0.106.112** |
| 14/23 | 0.05 | **0.106.114** |
| 19/26 | 0.05 | **0.106.119** |
| 24/29 | 0.05 | **0.106.124** |
| 29/32 | 0.05 | **0.106.129** |
| 34/35 | 0.05 | **0.106.134** |
| 45/40 | 0.05 | **0.106.145** |
| 50/42 | 0.05 | **0.106.150** |
| 55/44 | 0.05 | **0.106.155** |
| 60/46 | 0.05 | **0.106.160** |



**0.106.1****

**ST-Cones full length, skirted,** made of borosilicate glass

***Allonges à rodage conique mâle,*** *avec dégagement, en verre borosilicaté*

| ST<br>*Rodage* | Outer Ø<br>*Ø. ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/35 | 13 | 120 | 1.5 | **0.107.014** |
| 19/38 | 17 | 150 | 1.8 | **0.107.019** |
| 24/40 | 22 | 150 | 1.8 | **0.107.024** |
| 29/42 | 26 | 150 | 2.0 | **0.107.029** |
| 34/45 | 30 | 150 | 2.0 | **0.107.034** |
| 45/50 | 40 | 150 | 2.3 | **0.107.045** |



**0.107.*****

**ST-Sockets, cylindrical shape,** made of borosilicate glass, acc. to DIN 12 249

***Allonges à rodage conique femelle,*** *en verre borosilicaté*

| ST<br>*Rodage* | Outer Ø.<br>*Ø. ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/23 | 17 | 120 | 1.8 | **0.112.014** |
| 19/26 | 22 | 125 | 1.8 | **0.112.019** |
| 24/29 | 28 | 135 | 2.0 | **0.112.024** |
| 29/32 | 33 | 135 | 2.0 | **0.112.029** |
| 34/35 | 38 | 135 | 2.3 | **0.112.034** |
| 45/40 | 50 | 135 | 2.5 | **0.112.045** |



**0.112.*****



**0.115.*****

**ST-Cones, skirted, acc. to DIN 12 249,** made of borosilicate glass

***Allonges à rodage conique mâle,*** *avec dégagement, en verre borosilicaté*

| ST *Rodage* | Outer Ø *Ø ext.* mm | Length *Longueur* mm | Wall thick. *Epaisseur* mm | Order No. *N° de code* |
|---|---|---|---|---|
| 7/16 | 6 | 120 | 1.5 | **0.115.007** |
| 10/19 | 8 | 120 | 1.5 | **0.115.010** |
| 12/21 | 11 | 120 | 1.5 | **0.115.012** |
| 14/23 | 13 | 120 | 1.5 | **0.115.014** |
| 19/26 | 17 | 150 | 1.8 | **0.115.019** |
| 24/29 | 22 | 150 | 1.8 | **0.115.024** |
| 29/32 | 26 | 150 | 2.0 | **0.115.029** |
| 34/35 | 30 | 150 | 2.0 | **0.115.034** |
| 40/38 | 36 | 150 | 2.0 | **0.115.040** |
| 45/40 | 40 | 150 | 2.3 | **0.115.045** |
| 50/42 | 46 | 180 | 2.3 | **0.115.050** |
| 55/44 | 50 | 180 | 2.5 | **0.115.055** |
| 60/46 | 56 | 180 | 2.5 | **0.115.060** |
| 71/51 | 65 | 200 | 3.2 | **0.115.071** |

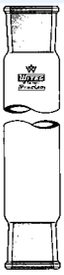


**0.117.*****

**ST-Cones, double, acc. to DIN 12 249,** made of borosilicate glass

***Allonges à rodage conique mâle,*** *double, en verre borosilicaté*

| ST *Rodage* | Outer Ø *Ø. ext.* mm | Length *Longueur* mm | Wall thick. *Epaisseur* mm | Order No. *N° de code* |
|---|---|---|---|---|
| 14/23 | 13 | 135 | 1.5 | **0.117.014** |
| 19/26 | 17 | 140 | 1.8 | **0.117.019** |
| 24/29 | 22 | 170 | 1.8 | **0.117.024** |
| 29/32 | 26 | 170 | 2.0 | **0.117.029** |



**0.118.*****

**ST-Sockets, double, acc. to DIN 12 249,** made of borosilicate glass

***Allonges à rodage conique femelle,*** *double, en verre borosilicaté*

| ST *Rodage* | Outer Ø. *Ø ext.* mm | Length *Longueur* mm | Wall thick. *Epaisseur* mm | Order No. *N° de code* |
|---|---|---|---|---|
| 14/23 | 17 | 135 | 1.8 | **0.118.014** |
| 19/26 | 22 | 140 | 1.8 | **0.118.019** |
| 24/29 | 28 | 170 | 2.0 | **0.118.024** |
| 29/32 | 33 | 170 | 2.0 | **0.118.029** |



**0.119.*****

**Bellows,** made of PTFE

***Raccords pour joints, en téflon (PTFE)***

| Socket/Cone *Femelle/Male* | Order No. *N° de code* |
|---|---|
| 14/23 | **0.119.014** |
| 19/26 | **0.119.019** |
| 24/29 | **0.119.024** |
| 29/32 | **0.119.029** |
| 45/40 | **0.119.045** |



**0.120.*****

**Cones, FCH-V,** (for high vacuum), made of borosilicate glass, greaseless

***Allonges à rodage conique mâle,*** *(pour vide poussé), en verre borosilicaté, sans graisse*

| ST *Rodage* | Outer Ø *Ø ext.* mm | Length *Longueur* mm | Wall thick. *Epaisseur* mm | Order No. *N° de code* |
|---|---|---|---|---|
| 14/23 | 12 | 120 | 1.5 | **0.120.014** |
| 19/26 | 17 | 140 | 1.8 | **0.120.019** |
| 24/29 | 22 | 140 | 1.8 | **0.120.024** |
| 29/32 | 26 | 140 | 2.0 | **0.120.029** |
| 34/35 | 30 | 140 | 2.0 | **0.120.034** |
| 45/40 | 38 | 140 | 2.3 | **0.120.045** |

**Cones, FCH-V, skirted,** (for high vacuum), made of borosilicate glass, greaseless

***Allonges à rodage conique mâle,*** *avec dégagement, (pour vide poussé), en verre borosilicaté, sans graisse*

| ST<br>*Rodage* | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/23 | 12 | 120 | 1.5 | **0.121.014** |
| 19/26 | 17 | 140 | 1.8 | **0.121.019** |
| 24/29 | 22 | 140 | 1.8 | **0.121.024** |
| 29/32 | 26 | 140 | 2.0 | **0.121.029** |
| 34/35 | 30 | 140 | 2.0 | **0.121.034** |
| 45/40 | 38 | 140 | 2.3 | **0.121.045** |



**0.121.*****

**Sockets, FCH-V,** (for high vacuum), made of borosilicate glass, greaseless

***Allonges à rodage conique femelle*** *(pour vide poussé), en verre borosilicaté, sans graisse*

| ST<br>*Rodage* | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/23 | 17 | 120 | 1.5 | **0.122.014** |
| 19/26 | 22 | 140 | 1.8 | **0.122.019** |
| 24/29 | 28 | 140 | 1.8 | **0.122.024** |
| 29/32 | 33 | 140 | 2.0 | **0.122.029** |
| 34/35 | 38 | 140 | 2.3 | **0.122.034** |
| 45/40 | 50 | 140 | 2.5 | **0.122.045** |



**0.122.*****

**Spare seals,** made of VITON

***Joints de rechange,*** *en VITON*

| ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **0.123.014** |
| 19/26 | **0.123.019** |
| 24/29 | **0.123.024** |
| 29/32 | **0.123.029** |
| 34/35 | **0.123.034** |
| 45/40 | **0.123.045** |



**0.123.*****

**Spare seals,** made of PTFE

***Joints de rechange,*** *en Téflon (PTFE)*

| ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **0.124.014** |
| 19/26 | **0.124.019** |
| 24/29 | **0.124.024** |
| 29/32 | **0.124.029** |
| 34/35 | **0.124.034** |
| 45/40 | **0.124.045** |



**0.124.*****

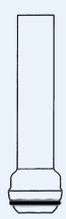
**Spherical joints, ball members,** inch range, made of borosilicate glass, acc. to DIN 12264/12244, or Rotulex

***Tubes de jonction à rodage sphérique mâle,*** *en verre borosilicaté, selon DIN 12264/12244, ou Rotulex*

| S<br>*Rodage* | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code*<br>Rotulex | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 13/2 | 8 | 100 | 2.7 | **0.125.002 R** | **0.125.002** |
| 13/5 | 8 | 100 | 1.5 | **0.125.005 R** | **0.125.005** |
| 19/9 | 13 | 100 | 1.5 | **0.125.009 R** | **0.125.009** |
| 29/15 | 19 | 120 | 1.8 | **0.125.015 R** | **0.125.015** |
| 35/20 | 24 | 120 | 1.8 | - | **0.125.020** |
| 35/25 | 30 | 120 | 2.0 | - | **0.125.021** |
| 40/25 | 30 | 150 | 2.0 | **0.125.025 R** | **0.125.025** |
| 41/25 | 32 | 150 | 2.0 | - | **0.125.026** |
| 51/30 | 36 | 150 | 2.8 | - | **0.125.030** |
| 64/40 | 48 | 150 | 3.2 | - | **0.125.040** |



**0.125.*****



**0.125.*** R**



**0.126.*****

**Spherical joints, socket members,** inch range, made of borosilicate glass, acc. to DIN 12264/12244, or Rotulex

***Tubes de jonction à rodage sphérique femelle,*** *en verre borosilicaté, selon DIN 12264/12244, ou Rotulex*

| S<br>*Rodage* | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code*<br>Rotulex | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 13/2 | 8 | 100 | 2.7 | **0.126.002 R** | **0.126.002** |
| 13/5 | 8 | 100 | 1.5 | **0.126.005 R** | **0.126.005** |
| 19/9 | 13 | 100 | 1.5 | **0.126.009 R** | **0.126.009** |
| 29/15 | 19 | 120 | 1.8 | **0.126.015 R** | **0.126.015** |
| 35/20 | 24 | 120 | 1.8 | - | **0.126.020** |
| 35/25 | 30 | 120 | 2.0 | - | **0.126.021** |
| 40/25 | 30 | 150 | 2.0 | **0.126.025 R** | **0.126.025** |
| 41/25 | 32 | 150 | 2.0 | - | **0.126.026** |
| 51/30 | 36 | 150 | 2.8 | - | **0.126.030** |
| 64/40 | 48 | 150 | 3.2 | - | **0.126.040** |

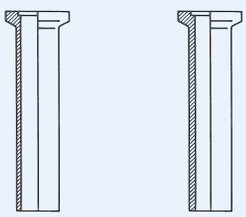


**0.126.1****

**Spherical ground joint sleeves** made of PTFE

***Joints pour rodage sphériques, en Téflon (PTFE)***

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 13 | **0.126.100** |
| 19 | **0.126.101** |
| 29 | **0.126.102** |
| 35 | **0.126.103** |
| 40 | **0.126.104** |
| 51 | **0.126.105** |
| 64 | **0.126.106** |



**0.128.2****



**0.128.2** ST**

**HV-Flat flanges, fire polished DIN 28403,** with groove for seals, made of borosilicate glass, thick wall or standard wall

***Raccords plat avec rainure pour joint DIN 28403,*** *en verre borosilicaté, à paroie épaisse ou à paroie standard*

| Norm width<br>*Largeur normalisée*<br>mm | Order No.<br>*N° de code*<br>Thick wall<br>*Paroie épaisse* | Order No.<br>*N° de code*<br>Standard wall<br>*Paroie standard* |
|---|---|---|
| 10 | **0.128.210 ST *** | **0.128.210** |
| 16 | **0.128.215 ST *** | **0.128.215** |
| 25 | **0.128.225 ST *** | **0.128.225** |
| 40 | **0.128.240 ST *** | **0.128.240** |
| 50 | **0.128.250 ST *** | **0.128.250** |
| 65 | - | **0.128.265** |
| 90 | - | **0.128.290** |

** not acc. to DIN / * ne répond pas à la norme DIN*

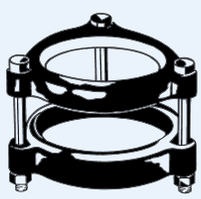


**0.128.3****

**Internal center rings,** O-ring seals made of Perbunan/stainless steel or made of PTFE/Teflon - Viton

***Joints d'intérieur***
*en perbunan/acier inox ou en PTFE/teflon - Viton*

| Norm width<br>*Largeur normalisée*<br>mm | Order No.<br>*N° de code*<br>PTFE/Teflon - Viton | Order No.<br>*N° de code*<br>S/S |
|---|---|---|
| 10 | **0.128.310 P** | **0.128.310** |
| 15 | **0.128.315 P** | **0.128.315** |
| 25 | **0.128.325 P** | **0.128.325** |
| 40 | **0.128.340 P** | **0.128.340** |
| 50 | - | **0.128.350** |
| 65 | - | **0.128.365** |
| 90 | - | **0.128.390** |



**0.128.4****

**Supports,** for flat flanges, U-clamp (quick-release) or three point clamp

***Supports*** *pour raccords plats, avec fixation en U (déblocage rapide) ou fixation à 3-points*

| Norm width<br>*Largeur normalisée*<br>mm | Order No.<br>*N° de code*<br>U-clamp<br>*Fixation en U* | Order No.<br>*N° de code*<br>Three point<br>*Fixation à 3 points* |
|---|---|---|
| 10 | **0.128.510** | **0.128.410** |
| 15 | **0.128.515** | **0.128.415** |
| 25 | **0.128.525** | **0.128.425** |
| 40 | **0.128.540** | **0.128.440** |
| 50 | **0.128.550** | **0.128.450** |
| 65 | - | **0.128.465** |
| 90 | - | **0.128.490** |

**Grease for ground joints**, „LABOFLEX“
Sealing and gliding material for fixed and rotating connections of glass joints, movable connections, made of plastic and metal. Resistant to most acids, alkalis and gases at temperatures from - 40 °C to + 300 °C. High vacuum resistant. It is absolutely silicone-free.

***Graisse pour rodages***
*exempt de silicone, à haute résistance à la chaleur de - 40 / + 300 °C et au vide poussé*

| Capacity<br>*Capacité*<br>g | Order No.<br>*N° de code* |
|---|---|
| 60 | **0.129.003** |
| High vacuum grease, middle-visco „Baysilon“<br>*Graisse pour vide poussé à viscosité moyenne* | **0.129.110** |




**0.129.***

**Matrix stick „Make up“**
in the handy design from a lipstick to grease ground joints, resistant up to 250 °C (lower than $10^{-4}$ Torr)

***Bâtonnet "Make-up",*** *pour graisser les rodages, résistant jusqu'à 250°C (inférieur à 10-4 Torr)*

| | Order No.<br>*N° de code* |
|---|---|
| | **0.129.120** |




**0.129.120**

**Clips for ground joints,**
made of stainless steel, (DBGM)

***Pinces pour rodages coniques,***
*en acier inoxydable*

| ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|
| 34/35 - 34/45 | **0.130.034** |
| 45/40 - 45/50 | **0.130.045** |



**0.130.***

**Clips for ground joints,** made of stainless steel

***Pinces pour rodages coniques,***
*en acier inoxydable*

| ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|
| 7/16 - 7/25 | **0.131.007** |
| 10/19 - 10/30 | **0.131.010** |
| 12/21 - 12/32 | **0.131.012** |
| 14/23 - 14/35 | **0.131.014** |
| 19/26 - 19/38 | **0.131.019** |
| 24/29 - 24/40 | **0.131.024** |
| 29/32 - 29/42 | **0.131.029** |
| 34/35 - 34/45 | **0.131.034** |
| 45/40 - 45/50 | **0.131.045** |



**0.131.***

**Clips for standard ground joints,**
made of POM, excellent resistance against chemicals, with-standing temperatures up to approx. + 150 °C

***Joints clip pour rodages coniques,***
*en polyacétal (POM), à haute résistance chimique et thermique jusqu'à 150°C.*

| ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|
| 10/19 - 10/30 | **0.131.110** |
| 12/21 - 12/32 | **0.131.112** |
| 14/23 - 14/35 | **0.131.114** |
| 19/26 - 19/38 | **0.131.119** |
| 24/29 - 24/40 | **0.131.124** |
| 29/32 - 29/42 | **0.131.129** |
| 34/35 - 34/45 | **0.131.134** |
| 40/38 | **0.131.140** |
| 45/40 - 45/50 | **0.131.145** |



**0.131.1****



**0.131.3****

**Clips for standard conical ground joints,**
made of Polyacetal (POM) "Keck-clips"

***Joints pour rodages coniques*** *en polyacétal (POM) "Keck clips"*

| ST<br>*Rodage* | Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|
| 10/19 - 10/30 | | **0.131.310** |
| 12/21 - 12/32 | | **0.131.312** |
| 14/23 - 14/35 | | **0.131.314** |
| 19/26 - 19/38 | | **0.131.319** |
| 24/29 - 24/40 | | **0.131.324** |
| 29/32 - 29/42 | | **0.131.329** |
| 34/35 - 34/45 | | **0.131.334** |
| 40/38 | | **0.131.340** |
| 45/40 - 45/50 | | **0.131.345** |



**0.131.6****

**Clamps for ground joints,**
without screw, made of stainless steel

***Pinces pour rodages coniques***
*sans vis à molette, en acier inoxydable*

| ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|
| 14/23 - 14/35 | **0.131.614** |
| 19/26 | **0.131.619** |
| 24/29 | **0.131.624** |
| 29/32 | **0.131.629** |
| 45/40 - 45/50 | **0.131.645** |
| Accessories/Accessoires | |
| Tightening screw for 0.131.614 - 645 / *Vis de fixation pour 0.131.614 - 645* | **0.131.666** |



**0.133.0****

**Clamps for spherical joints,**
with screw, made of stainless steel
or made of POM plastic

***Pinces pour rodages sphériques***
*avec vis à molette, en acier inoxydable, ou selon POM plastique*

| ST<br>*Rodage* | POM plastic<br>*POM plastique* | Stainless steel<br>*Acier Inoxydable* |
|---|---|---|
| 13/2-13/5 | **0.133.313** | **0.133.013** |
| 19/9 | **0.133.319** | **0.133.019** |
| 29/15 | **0.133.329** | **0.133.029** |
| 35/20 | **0.133.335** | **0.133.035** |
| 40/25 - 41/25 | - | **0.133.040** |
| 51/30 | - | **0.133.051** |
| 64/40 | - | **0.133.064** |



**0.133.3****

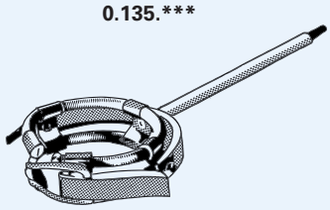


**0.135.*****

**Flat flange, quick release clamps,**
made of stainless steel

***Colliers de fermeture pour réacteur,***
*en acier inoxydable*

| DN<br>*DN* | Order No.<br>*N° de code* |
|---|---|
| 60 | **0.135.060** |
| 100 | **0.135.100** |
| 120 | **0.135.120** |
| 150 | **0.135.150** |
| 200 | **0.135.200** |



**0.138.*****

**Flat flange, quick release clamps,**
made of stainless steel and plastic

***Colliers de fermeture pour réacteur,***
***à queue de fixation,*** *en acier inoxydable avec garniture en plastique*

| DN<br>*DN* | Order No.<br>*N° de code* |
|---|---|
| 60 | **0.138.060** |
| 100 | **0.138.100** |



**0.140.*****

**Superfix-safety devices,**
solid security. Complete with cap, inner part of thread cone and clamping O-ring, suitable for cylindrical and conventional connections of conical joints, packed in cellophane bags.

***Dispositifs de fermeture à sécurité „Superfix“***
*pour rodages coniques. Complet avec bouchon, partie intérieur du cône à serrer et joint de fixation, recommandé pour les raccords cylindriques et conventionnels de rodages coniques, emballés dans sachets en cellophane.*

| ST<br>*Rodage* | Color<br>*Couleur* | Standard Pack<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 - 14/35 | | 10 | **0.140.014** |
| 19/26 - 19/38 | | 10 | **0.140.019** |
| 24/29 - 24/40 | | 10 | **0.140.024** |
| 29/32 - 29/42 | | 10 | **0.140.029** |
| 34/35 - 34/45 | | 5 | **0.140.034** |
| 45/40 - 45/50 | | 5 | **0.140.045** |

**Aluminium rings for flasks and sockets** with hooks for springs, a substitution for glass hooks

***Anneaux en aluminium*** *pour flacons et raccords femelles avec crochets pour ressorts*

| ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|
| 12 - 14 | 0.140.114 |
| 19 - 24 | 0.140.124 |
| 29 - 34 | 0.140.134 |
| 45 | 0.140.145 |



0.140.1**

**Springs**
fitting the metal rings 0.140.114 - 145

***Ressorts***
*pour anneaux en métal 0.140.114 - 145*

| Overall length<br>*Longueur totale*<br>mm | Spiral length only<br>*Longueur de la spire*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 10 | 0.140.225 |
| 35 | 20 | 0.140.235 |
| 45 | 32 | 0.140.245 |
| 60 | 45 | 0.140.260 |
| 85 | 75 | 0.140.285 |

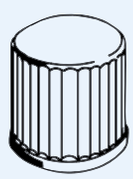


0.140.2**

**Screw caps,** top closed, red, up to GL 45 made of PBTP with PTFE-liners, GL 50 and larger made of PP, nature.
(Ideal for spinner flasks „Biogen“, heat resistant up to approx. 180 °C.)

***Bouchons à visser en PBTP avec septum en téflon (PTFE)*** *jusqu'à taille GL 45 et en polypropylène (PP) au-delà de la taille GL 50. Résistant à la chaleur jusqu'à 180 °C.*

| GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|
| 14 | 0.175.014 |
| 18 | 0.175.018 |
| 25 | 0.175.025 |
| 32 | 0.175.032 |
| 45 | 0.175.045 |
| 50 | 0.175.050 |
| 60 | 0.175.060 |
| 70 | 0.175.070 |
| 80 | 0.175.080 |
| 90 | 0.175.090 |
| 100 | 0.175.099 |



0.175.***

**Silicone stoppers for spinner flasks** „BIOGEN“

***Bouchons en silicone,*** *à utiliser avec les fioles BIOGEN de la série 5.529.*

| For Order No.<br>*Pour N° de code* | Order No.<br>*N° de code* |
|---|---|
| 5.529.101 - 5.529.104 | 0.175.100 |
| 5.529.105 - 5.529.110 | 0.175.101 |

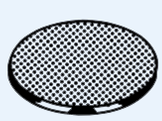


0.175.1**

**Silicone rubber seals,**
PTFE protected

***Septum en silicone***
*avec revêtement en PTFE*

| GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|
| 14 | 0.175.111 |
| 18 | 0.175.112 |
| 25 | 0.175.113 |
| 32 | 0.175.114 |
| 45 | 0.175.115 |
| 50 | 0.175.116 |
| 60 | 0.175.117 |
| 70 | 0.175.118 |
| 80 | 0.175.119 |
| 90 | 0.175.120 |
| 100 | 0.175.121 |



0.175.11*



**0.175.145**

**Screw caps, top closed, blue,** made of Polypropylene (PP)

***Bouchons à visser*** *en polypropylène, bleu*

| GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|
| 25 | **0.175.125** |
| 32 | **0.175.132** |
| 45 | **0.175.145** |



**0.175.2****

**Pouring rings,** made of Polypropylene (PP), autoclavable

***Bagues anti-goutte en polypropylène (PP),*** *autoclavables*

| GL<br>*GL* | Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|
| 32 | ● | **0.175.201** |
| 45 | ● | **5.526.166** |
| 45 | ● | **5.526.177** |
| 45 | ● | **5.526.188** |
| 45 | ○ | **5.526.199** |



**0.175.3****

**Pouring rings,** red, made of ETFE

***Bagues anti-goutte en Téflon (ETFE),*** *rouge*

| GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|
| 32 | **0.175.301** |
| 45 | **0.175.302** |



**0.175.5****

**Standard Alu-Caps,** made of aluminium silvered, for tubes and flasks

***Capuchons standards Alu-Caps,*** *en aluminium argenté, pour tubes et flacons*

| Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hautueur*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 11 | 25 | 100 | **0.175.501** |
| 12 | 25 | 100 | **0.175.502** |
| 14 | 25 | 100 | **0.175.504** |
| 15 | 25 | 100 | **0.175.505** |
| 16 | 30 | 100 | **0.175.506** |
| 17 | 30 | 100 | **0.175.507** |
| 18 | 30 | 100 | **0.175.508** |
| 20 | 30 | 100 | **0.175.509** |
| 22 | 30 | 100 | **0.175.510** |
| 28 | 30 | 100 | **0.175.511** |
| 32 | 30 | 100 | **0.175.512** |
| 44 | 40 | 10 | **0.175.514** |



**0.175.6****

**LaboCap test tube closures with grip acc. to Kapsenberg,** made of coloured anodised aluminium colored in silver, blue or red, with internally fitted rust-proof chromium-nickel springs

***Capuchons LaboCap de Kapsenberg*** *avec tige, en aluminium coloré par anodisation, ressort interne en acier nickel-chrome, en vente en couleurs argenté, bleu ou rouge*

| For tubes Ø<br>*Pour tubes Ø*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Colour<br>*Couleur*<br>○ | Colour<br>*Couleur*<br>● | Colour<br>*Couleur*<br>● |
|---|---|---|---|---|
| 12-13 | 100 | - | **0.175.621** | **0.175.631** |
| 15-16 | 100 | **0.175.603** | **0.175.623** | **0.175.633** |
| 17-18 | 100 | **0.175.604** | **0.175.624** | **0.175.634** |
| 19-20 | 100 | **0.175.605** | **0.175.625** | **0.175.635** |

Packing for blue or red caps, 1000 pcs.
Other colours are available on request
*Conditionnement pour bleu ou rouge capuchons, 1000 pcs.*
*D'autres colories sont disponibles sur demande*

**Screw caps,** top with hole, red, made of PBTP, from GL 50 made of Polypropylene (PP), nature

***Bouchons à visser avec trou central, rouge** en PBTP jusqu'à la taille GL 45 et en PP à partir de la taille GL 50*

| Screw thread<br>*Filtetage*<br>GL | Bore Ø<br>*Ø du trou*<br>mm | Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|---|---|
| 14 | 9.5 | PBTP | **0.176.014** |
| 18 | 11.0 | PBTP | **0.176.018** |
| 25 | 15.0 | PBTP | **0.176.025** |
| 32 | 20.0 | PBTP | **0.176.032** |
| 45 | 34.0 | PBTP | **0.176.045** |
| 50 | 38.0 | PP | **0.176.050** |
| 60 | 48.0 | PP | **0.176.060** |
| 70 | 58.0 | PP | **0.176.070** |
| 80 | 68.0 | PP | **0.176.080** |
| 90 | 75.0 | PP | **0.176.090** |
| 100 | 85.0 | PP | **0.176.100** |

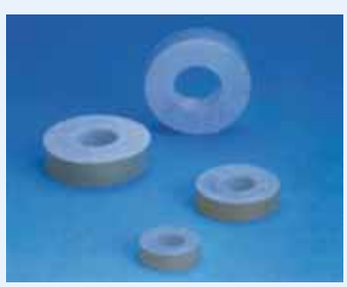



**0.176.*****

**Gaskets,** silicone rubber, with vulcanized-on PTFE liners

***Joints en silicone,** sur couches de téflon (PTFE)*

| For screw thread<br>*Pour filetage*<br>GL | Seal<br>*Joint*<br>mm | for tubes Ø<br>*pour tubes de Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 14 | 12 x 6 | 5.5 - 6.5 | **0.177.006** |
| 18 | 16 x 6 | 5.5 - 6.5 | **0.178.006** |
| 18 | 16 x 8 | 7.5 - 9.0 | **0.178.008** |
| 18 | 16 x 10 | 9.0 - 11.0 | **0.178.010** |
| 25 | 22 x 8 | 7.5 - 9.0 | **0.179.008** |
| 25 | 22 x 10 | 9.0 - 11.0 | **0.179.010** |
| 25 | 22 x 12 | 11.0 - 13.0 | **0.179.012** |
| 32 | 29 x 10 | 9.0 - 11.0 | **0.180.010** |
| 32 | 29 x 12 | 11.0 - 13.0 | **0.180.012** |
| 32 | 29 x 14 | 13.0 - 15.0 | **0.180.014** |
| 32 | 29 x 16 | 15.0 - 17.0 | **0.180.016** |
| 32 | 29 x 18 | 17.0 - 19.0 | **0.180.018** |
| 45 | 42 x 26 | 25.0 - 27.0 | **0.180.026** |
| 45 | 42 x 32 | 31.0 - 33.0 | **0.180.032** |
| 50 | 48 x 34 | 33.0 - 35.0 | **0.180.034** |
| 50 | 48 x 36 | 35.0 - 37.0 | **0.180.036** |
| 60 | 58 x 38 | 37.0 - 39.0 | **0.180.038** |
| 60 | 58 x 44 | 43.0 - 45.0 | **0.180.044** |
| 70 | 68 x 46 | 45.0 - 47.0 | **0.180.046** |
| 80 | 78 x 50 | 49.0 - 51.0 | **0.180.050** |
| 90 | 89 x 60 | 59.0 - 61.0 | **0.180.060** |
| 90 | 89 x 70 | 69.0 - 71.0 | **0.180.070** |
| 100 | 98 x 80 | 78.0 - 81.0 | **0.180.080** |

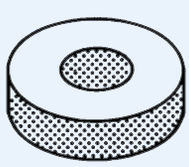


**0.177.*****

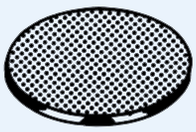
**Gaskets,** silicone rubber without PTFE sockets

***Joints en silicone,** sans raccords en téflon*

| For screw thread<br>*Pour filetage*<br>GL | Seal<br>*Joint*<br>mm | for tubes Ø<br>*pour tubes de Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 14 | 12 x 6 | 5.5 - 6.5 | **0.177.106** |
| 18 | 16 x 6 | 5.5 - 6.5 | **0.178.106** |
| 18 | 16 x 8 | 7.5 - 9.0 | **0.178.108** |
| 18 | 16 x 10 | 9.0 - 11.0 | **0.178.110** |
| 25 | 22 x 8 | 7.5 - 9.0 | **0.179.108** |
| 25 | 22 x 10 | 9.0 - 11.0 | **0.179.110** |
| 25 | 22 x 12 | 11.0 - 13.0 | **0.179.112** |
| 32 | 29 x 10 | 9.0 - 11.0 | **0.180.110** |
| 32 | 29 x 12 | 11.0 - 13.0 | **0.180.112** |
| 32 | 29 x 14 | 13.0 - 15.0 | **0.180.114** |
| 32 | 29 x 16 | 15.0 - 17.0 | **0.180.116** |
| 32 | 29 x 18 | 17.0 - 19.0 | **0.180.118** |
| 45 | 42 x 26 | 25.0 - 27.0 | **0.180.126** |
| 45 | 42 x 32 | 31.0 - 33.0 | **0.180.132** |



**0.177.1****

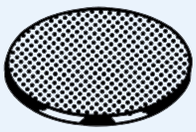


**0.181.*****

**Silicone rubber seals,** for piercing (Septa)

***Joints en silicone,*** *pour perçage (Septum)*

| for GL<br>*pour GL* | Outer Ø<br>*Ø Sup.*<br>mm | Thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 14 | 12 | 2.0 | **0.181.014** |
| 18 | 16 | 2.0 | **0.181.018** |
| 25 | 22 | 2.0 | **0.181.025** |
| 32 | 29 | 2.0 | **0.181.032** |
| 45 | 42 | 3.0 | **0.181.045** |
| 50 | 48 | 3.0 | **0.181.050** |
| 60 | 58 | 3.0 | **0.181.060** |
| 70 | 68 | 3.0 | **0.181.070** |
| 80 | 78 | 3.0 | **0.181.080** |
| 90 | 89 | 3.0 | **0.181.090** |
| 100 | 98 | 3.0 | **0.181.100** |



**0.181.2****

**Silicone rubber seals, PTFE coated,**
for piercing (Septa)

***Joints en silicone à revêtement en PTFE,*** *pour perçage (Septum)*

| for GL<br>*pour GL* | Outer Ø<br>*Ø. Sup.*<br>mm | Thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 14 | 12 | 2.0 | **0.181.214** |
| 18 | 16 | 2.0 | **0.181.218** |
| 25 | 22 | 2.0 | **0.181.225** |
| 32 | 29 | 2.0 | **0.181.232** |
| 45 | 42 | 3.0 | **0.181.245** |




**0.182.*****

**Tubing,** threaded, straight,
acc. to DIN 12216, with ISO screw thread,
made of borosilicate glass, available with
screw thread GL, RD or SVL

***Tubes droits à raccord à vis ISO,*** *en verre borosilicaté, disponibles avec filetage du type GL, RD ou SVL*

| Screw thread<br>*Filetage*<br>GL | Tubes outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14 | 12 | 110 | 1.5 | **0.182.014** |
| 14 * | 12 | 110 | 2.2 | **0.182.014 ST** |
| 18 | 16 | 110 | 1.8 | **0.182.018** |
| 18 * | 16 | 110 | 2.5 | **0.182.018 ST** |
| 25 | 22 | 110 | 1.8 | **0.182.025** |
| 25 * | 22 | 110 | 2.5 | **0.182.025 ST** |
| 32 | 28 | 150 | 2.0 | **0.182.032** |
| 32 * | 28 | 150 | 2.8 | **0.182.032 ST** |
| 45 | 40 | 150 | 2.3 | **0.182.045** |
| 45 | 40 | 300 | 2.3 | **0.182.046** |
| 45 | 40 | 150 | 3.2 | **0.182.047** |
| 45 | 40 | 300 | 3.2 | **0.182.048** |
| 50 * | 46 | 130 | 2.3 | **0.182.050** |
| 50 * | 46 | 130 | 3.2 | **0.182.051** |
| 60 * | 56 | 130 | 2.5 | **0.182.060** |
| 60 * | 56 | 130 | 3.5 | **0.182.061** |
| 70 * | 65 | 130 | 3.2 | **0.182.070** |
| 80 * | 75 | 130 | 3.2 | **0.182.080** |
| 90 * | 85 | 130 | 3.5 | **0.182.090** |
| 100 * | 95 | 130 | 3.5 | **0.182.100** |
| **RD** | | | | |
| 10 | 8 | 110 | 1.5 | **0.182.210** |
| 14 | 12 | 110 | 1.5 | **0.182.214** |
| **SVL** | | | | |
| 15 | 16 | 110 | 1.8 | **0.182.315** |
| 22 | 22 | 110 | 1.8 | **0.182.322** |
| 30 | 32 | 150 | 2.0 | **0.182.330** |
| 42 | 40 | 150 | 2.3 | **0.182.342** |

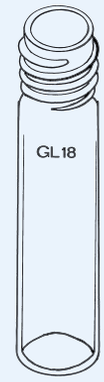
** not acc. to DIN / * ne répond pas à la norme DIN*
* ST not acc. to DIN with thick wall / ** ST = à paroie épaisse, ne répond pas à la norme DIN*

**Tubing,** threaded, with restriction, acc. to DIN 12216, with ISO screw thread, made of borosilicate glass

***Raccords à vis,*** *selon DIN 12216, avec retressissement, en verre borosilicaté*

| Screw thread<br>*Filetage*<br>GL | Tubes outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thick<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14 | 14 | 110 | 1.5 | **0.183.014** |
| 18 | 18 | 110 | 1.8 | **0.183.018** |
| 25 | 26 | 110 | 2.0 | **0.183.025** |
| 32 | 32 | 150 | 2.0 | **0.183.032** |
| 45 | 46 | 150 | 2.3 | **0.183.045** |
| 50 * | 60 | 130 | 2.2 | **0.183.050** |
| 60 * | 75 | 130 | 2.2 | **0.183.060** |
| 80 * | 90 | 130 | 3.5 | **0.183.080** |
| 90 * | 100 | 130 | 3.5 | **0.183.090** |

** not acc. to DIN / * ne répond pas à la norme DIN*
also thickwalled available *.***.*** ST
*Disponible également avec paroie épaisse. Rajouter ST au No. de code*




**0.183.***

**Screw thread adapter couplings,** made of fluoroplastic (PTFE), for flexible coupling of 2 glass screw threads with integral PTFE/FPM gasket, the medium is exposed only to PTFE, the screw caps are made of glass-fiber reinforced PPS or of PBTP

***Brides d'assemblage à visser,*** *en Téflon (PTFE), pour un raccordement flexible de 2 tubes filetés, avec joint en PTFE/FPM intégré, le produit n'entre en contact qu'avec le PTFE. Les capuchons vissables sont en PPS renforcé de fibre de verre ou en PBTP*

| Screw thread<br>*Filetage*<br>GL | Screw caps<br>*Capuchons*<br>PPS + 250 °C | Screw caps<br>*Capuchons*<br>PBTP + 180 °C |
|---|---|---|
| 14 | **0.184.014** | **0.184.114** |
| 18 | **0.184.018** | **0.184.118** |
| 25 | **0.184.025** | **0.184.125** |
| 32 | **0.184.032** | **0.184.132** |
| 45 | **0.184.045** | **0.184.145** |



**0.184.0**** **0.184.1****

**SVS-tubing connection, bent, complete hose connection,** with screw-cap and silicone seal, made of Polypropylene (PP) or Teflon (PFA)

***Raccords à vis avec olive coudée en polypropylène (PP) ou en Téflon (PFA)****, à joint en silicone, pour flexible*

| Screw thread<br>*Filetage*<br>GL | Outer Ø<br>*Ø ext.*<br>mm | Material<br>*Matière*<br>PP | Material<br>*Matiére*<br>PFA |
|---|---|---|---|
| 14 | 8 | **0.185.001** | **0.186.001** |
| 18 | 11 | **0.185.016** | **0.186.016** |



**0.186.001**

**SVS-tubing connection, straight, complete hose connection,** with screw-cap and silicone seal, made of Polypropylene (PP) or Teflon (PFA)

***Raccords à vis avec olive droite en polypropylène (PP) ou en Téflon (PFA),*** *à joint en silicone, pour flexible*

| Screw thread<br>*Filetage*<br>GL | Outer Ø<br>*Ø ext.*<br>mm | Material<br>*Matière*<br>PP | Material<br>*Matiére*<br>PFA |
|---|---|---|---|
| 14 | 8 | **0.185.002** | **0.185.003** |
| 18 | 11 | **0.185.011** | **0.185.012** |



**0.185.003**

**Plastic hose connection, bent,** made of polypropylene (PP) or Teflon (PFA), with silicone-rubber-liners

***Raccords à vis avec olive coudée en polypropylène (PP) ou en Téflon (PFA),*** *à joint en silicone*

| For screw thread<br>*Pour filetage*<br>GL | Outer Ø<br>*Ø ext.*<br>mm | Material<br>*Matière*<br>PP | Material<br>*Matiére*<br>PFA |
|---|---|---|---|
| 14 | 8 | **0.185.004** | **0.186.004** |
| 18 | 11 | **0.185.014** | **0.186.014** |



**0.186.004**

**Plastic hose connection, straight,** made of polypropylene (PP) or Teflon (PFA), with silicone-rubber-liners

***Raccords à vis avec olive droite en polypropylène (PP) ou en Téflon (PFA),*** *avec joint en silicone*

| For screw thread<br>*Pour filetage*<br>GL | Outer Ø<br>*Ø ext.*<br>mm | Material<br>*Matière*<br>PP | Material<br>*Matiére*<br>PFA |
|---|---|---|---|
| 14 | 8 | **0.185.005** | **0.185.006** |
| 18 | 11 | **0.185.007** | **0.185.008** |



**0.185.006**



**0.185.009**

**Spare-liners, made of Silicone rubber**
for hose connection

***Joints de rechange en silicone,*** *pour raccord à olive*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 8 | **0.185.009** |
| 11 | **0.185.010** |



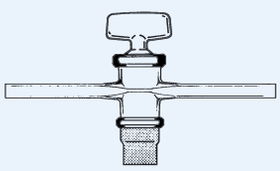
**0.198.*****

**Function-stops,** for screw-threads, SVS, (DBGM), made of borosilicate glass

***Obturateurs,*** *pour raccords à vis, en verre borosilicaté*

| FA | Tube outer Ø<br>*Ø ext. du tube*<br>mm | FA Outer Ø<br>*Ø ext. FA*<br>mm | Length<br>*Longueur*<br>mm | Wall thick.<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 6 | 6 | 10 | 120 | 1.5 | **0.198.006** |
| 8 | 8 | 12 | 120 | 1.5 | **0.198.008** |
| 10 | 10 | 14 | 120 | 1.5 | **0.198.010** |
| 12 | 12 | 16 | 125 | 1.5 | **0.198.012** |
| 14 | 14 | 20 | 125 | 1.5 | **0.198.014** |
| 16 | 16 | 22 | 130 | 1.8 | **0.198.016** |
| 18 | 18 | 24 | 130 | 1.8 | **0.198.018** |

## Stopcocks
## *Robinets*

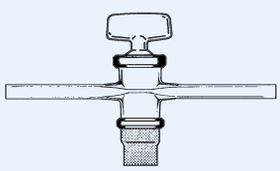


**0.200.*****

**Stopcocks straight,** acc. to DIN 12541, solid ST-plug, capillary side arms, with special screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinet droit à une voie,*** *en verre borosilicaté avec clé interchangeable en verre plein, branches à tube capillaire et vis de fixation spéciale de maintien*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 12.5 | 8 | 100 | **0.200.001** |
| 2.5 | 14.5 | 9 | 100 | **0.200.002** |



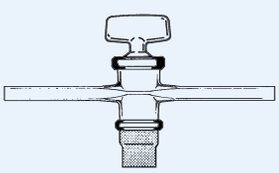
**0.202.*****

**Stopcocks straight,** acc. to DIN 12541, solid ST-plug, with standard glass tube side arms, with special screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinet droit à une voie,*** *en verre borosilicaté avec clé interchangeable en verre plein, branches à tube en verre standard et vis de fixation spéciale de maintien*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 12.5 | 8 | 100 | **0.202.001** |
| 2.5 | 14.5 | 9 | 100 | **0.202.002** |
| 4 | 18.8 | 10 | 110 | **0.202.004** |
| 6.3 * | 21.5 | 13 | 120 | **0.202.006** |
| 8 * | 24 | 15 | 120 | **0.202.008** |
| 10 * | 29.2 | 18 | 120 | **0.202.010** |

* with rubber retaining nuts „SIE“ (DBGM) / * *avec vis de fixation en caoutchouc*



**0.202.1****

**Stopcocks straight,** with solid glass plug, with standard glass tube side arms, with special screw-thread retaining nuts, made of borosilicate glass

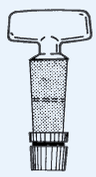
***Robinet droit à une voie,*** *en verre borosilicaté avec clé interchangeable en verre plein, branches à tube en verre standard et vis de fixation spéciale de maintien*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2.5 | 12.5 | 9 | 100 | **0.202.102** |
| 4 | 14.5 | 10 | 110 | **0.202.104** |
| 6.3 | 18.8 | 13 | 120 | **0.202.106** |

**ST-separate plugs, solid,** made of borosilicate glass, acc. to DIN 12541

***Clés à rodage,*** *interchangeables, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.203.001** |
| 2.5 | 14.5 | **0.203.002** |
| 4 | 18.8 | **0.203.004** |
| 6.3 | 21.5 | **0.203.006** |
| 8 | 24 | **0.203.008** |
| 10 | 29.2 | **0.203.010** |



**0.203.*****

**ST-separate plugs, solid**, made of borosilicate glass

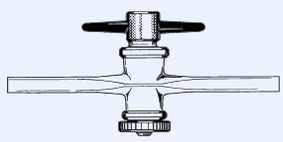
***Clés à rodage,*** *interchangeables, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 2.5 | 12.5 | **0.203.102** |
| 4 | 14.5 | **0.203.104** |
| 6.3 | 18.8 | **0.203.106** |

**Stopcocks straight,** acc. to DIN 12541, with ST-PTFE-plug, with capillary side arms, made of borosilicate glass

***Robinets droits à une voie en verre borosilicaté,*** *avec clé en PTFE interchangeable et branches à tube capillaire*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 12.5 | 8 | 100 | **0.204.001** |
| 2.5 | 14.5 | 9 | 100 | **0.204.002** |



**0.204.*****

**Stopcocks straight,** acc. to DIN 12541, with ST-PTFE-plug, with standard glass tube side arms, with special screw-thread retaining nut (DGBM), made of borosilicate glass

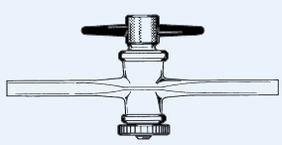
***Robinet droit à une voie,*** *en verre borosilicaté avec clé interchangeable en téflon (PTFE), branches à tube en verre standard et vis de fixation spéciale de maintien*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 12.5 | 8 | 100 | **0.205.001** |
| 2.5 | 14.5 | 9 | 100 | **0.205.002** |
| 4 | 18.8 | 10 | 110 | **0.205.004** |
| 6.3 | 21.5 | 13 | 120 | **0.205.006** |
| 8 | 24 | 15 | 120 | **0.205.008** |
| 10 | 29.2 | 18 | 120 | **0.205.010** |

**Stopcocks straight,** with ST-PTFE-plug, with standard glass tube side arms, with special screw-thread retaining nut, made of borosilicate glass

***Robinet droit à une voie,*** *en verre borosilicaté avec clé interchangeable en téflon (PTFE), branches à tube en verre standard et vis de fixation spéciale de maintien*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2.5 | 12.5 | 9 | 100 | **0.205.102** |
| 4 | 14.5 | 10 | 110 | **0.205.104** |
| 6.3 | 18.8 | 13 | 120 | **0.205.106** |



**0.205.*****

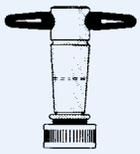
**ST-PTFE-separate plugs, solid,** acc. to DIN 12541

***Clés à rodage en téflon (PTFE),*** *seules*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.206.001** |
| 2.5 | 14.5 | **0.206.002** |
| 4 | 18.8 | **0.206.004** |
| 6.3 | 21.5 | **0.206.006** |
| 8 | 24 | **0.206.008** |
| 10 | 29.2 | **0.206.010** |



**0.206.*****

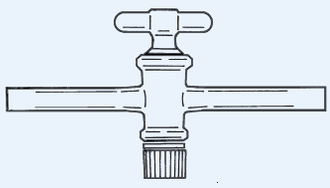


**0.206.*****

**ST-PTFE-separate plugs, solid**

***Clés à rodage en téflon (PTFE),*** *seules*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 2.5 | 12.5 | **0.206.102** |
| 4 | 14.5 | **0.206.104** |
| 6.3 | 18.8 | **0.206.106** |

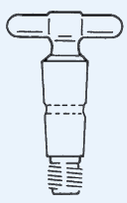


**0.214.*****

**Stopcocks straight, „Type N“,** acc. to DIN 12541, with hollow ST-plug, with glass grip, with special screw-thread retaining nut (double testet), made of borosilicate glass

***Robinets droits en verre „Type N“,*** *à clé et vis de fixation spéciale de maintien, en verre borosilicaté creux*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 12.5 | 8 | 100 | **0.214.001** |
| 2.5 | 14.5 | 9 | 100 | **0.214.002** |
| 4 | 18.8 | 10 | 110 | **0.214.004** |
| 6.3 | 21.5 | 13 | 120 | **0.214.006** |
| 8 | 24 | 15 | 120 | **0.214.008** |
| 10 | 29.2 | 18 | 120 | **0.214.010** |

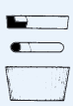


**0.215.*****

**ST-spare plugs, „Type N“,** DIN 12541, hollow, without special screw-thread retaining nut, made of borosilicate glass

***Clés en verre „Type N“,*** *sans système de fixation à vis, en verre borosilicaté creux*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.215.001** |
| 2.5 | 14.5 | **0.215.002** |
| 4 | 18.8 | **0.215.004** |
| 6.3 | 21.5 | **0.215.006** |
| 8 | 24 | **0.215.008** |
| 10 | 29.2 | **0.215.010** |

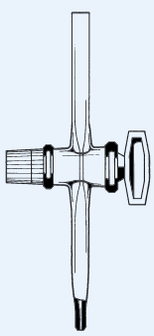


**0.216.*****

**Screw-thread retaining nut, „Type N“,** (screw cap, insert, O-ring)

***Systèmes de fixation à vis „Type N“,*** *avec joint*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.216.001** |
| 2.5 | 14.5 | **0.216.002** |
| 4 | 18.8 | **0.216.004** |
| 6.3 | 21.5 | **0.216.006** |
| 8 | 24 | **0.216.008** |
| 10 | 29.2 | **0.216.010** |



**0.232.*****

**Stopcock for burettes,** straight, made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

***Robinet droit pour burettes,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.232.101** |

**Stopcock for burettes of 10 ml,** straight, made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

***Robinet droit pour burettes de 10 ml,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.232.111** |

**Stopcock for burettes of 25 ml,** straight, made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

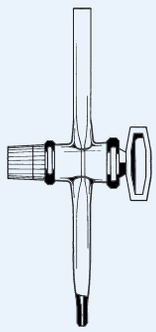
***Robinet droit pour burettes de 25 ml,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.232.121** |

**Stopcock for burettes of 50 ml,** straight, made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

***Robinet droit pour burettes de 50 ml,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.232.151** |



**0.232.*****

**Stopcock for burettes,** straight, made of borosilicate glass, acc. to DIN 12541, with hollow ST-plug

***Robinet droit pour burettes,*** *en verre borosilicaté à clé interchangeable en verre creux*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.233.101** |

**Stopcock for burettes of 10 ml,** straight, made of borosilicate glass, acc. to DIN 12541, with hollow ST-plug

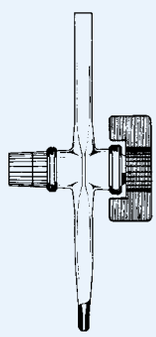
***Robinet droit pour burettes de 10 ml,*** *en verre borosilicaté à clé interchangeable en verre creux*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.233.111** |

**Stopcock for burettesof 25ml,** straight, made of borosilicate glass, acc. to DIN 12541, with hollow ST-plug

***Robinet droit pour burettes de 25 ml,*** *en verre borosilicaté à clé interchangeable en verre creux*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.233.121** |



**0.233.*****

**Stopcock for burettes of 50ml,** straight, made of borosilicate glass, acc. to DIN 12541, with hollow ST-plug

***Robinet droit pour burettes de 50 ml,*** *en verre borosilicaté à clé interchangeable en verre creux*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.233.151** |

**Stopcock for burettes,** straight, made of borosilicate glass, acc. to DIN 12541, with teflon (PTFE) ST-plug

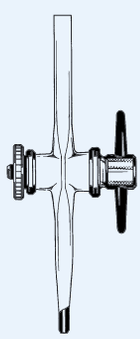
***Robinet droit pour burettes ,*** *en verre borosilicaté à clé interchangeable en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.234.101** |

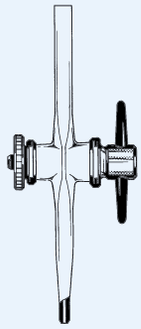
**Stopcock for burettes of 10ml,** straight, made of borosilicate glass, acc. to DIN 12541, with teflon (PTFE) ST-plug

***Robinet droit pour burettes de 10 ml,*** *en verre borosilicaté à clé interchangeable en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.234.111** |



**0.234.*****



**0.234.*****

**Stopcock for burettes of 25ml,** straight, made of borosilicate glass, acc. to DIN 12541, with teflon (PTFE) ST-plug

***Robinet droit pour burettes de 25 ml,*** *en verre borosilicaté à clé interchangeable en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.234.121** |

**Stopcock for burettes of 50ml,** straight, made of borosilicate glass, acc. to DIN 12541, with teflon (PTFE) ST-plug

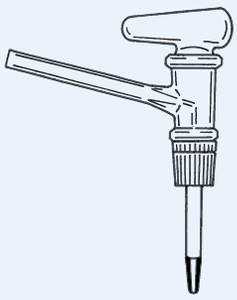
***Robinets droits pour burettes de 50 ml,*** *en verre borosilicaté à clé interchangeable en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.234.151** |

**Stopcock for burettes, lateral,** made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

***Robinet latéral pour burettes,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.238.101** |



**0.238.*****

**Stopcock for burettes of 10 ml,** lateral, made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

***Robinet latéral pour burettes de 10 ml,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.238.111** |

**Stopcock for burettes of 25ml,** lateral, made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

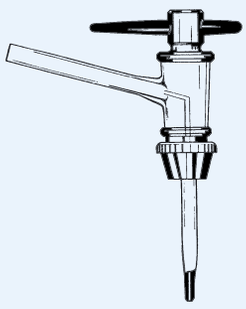
***Robinet latéral pour burettes de 25 ml,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.238.121** |

**Stopcock for burettes of 50 ml,** lateral, made of borosilicate glass, acc. to DIN 12541, with solid ST-plug

***Robinet latéral pour burettes de 50 ml,*** *en verre borosilicaté à clé interchangeable en verre plein*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.238.151** |



**0.240.*****

**Stopcock for burettes, lateral,** acc. to DIN 12541, with ST-teflon (PTFE) plug

***Robinet latéral pour burettes,*** *à clé interchangeable en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.240.101** |

**Stopcock for burettes of 10ml,** lateral, made of borosilicate glass, acc. to DIN 12541, with teflon (PTFE) ST-plug

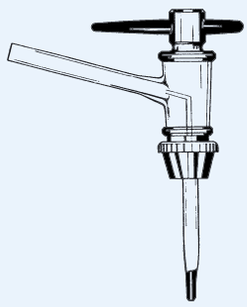
***Robinet latéral pour burettes de 10 ml,*** *en verre borosilicaté à clé interchangeable en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.240.111** |

**Stopcock for burettes of 25ml,** lateral, made of borosilicate glass, acc. to DIN 12541, with teflon (PTFE) ST-plug

***Robinet latéral pour burettes de 25 ml,*** *en verre borosilicaté à clé interchangeable en verre en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.240.121** |



**0.240.*****

**Stopcock for burettes of 50ml,** lateral, made of borosilicate glass, acc. to DIN 12541, with teflon (PTFE) ST-plug

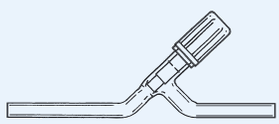
***Robinet latéral pour burettes de 50 ml,*** *en verre borosilicaté à clé interchangeable en verre en téflon (PTFE)*

| Bore<br>*Voie*<br>mm | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 | 12.5 | **0.240.151** |

**Needle valve, stopcock straight, „Economy“,** with PTFE-needle valve, with sealing ring, sealing system with overtwist safety device, made of borosilicate glass

***Robinets droit,*** *en verre borosilicaté, à clé à pointeau en Téflon (PTFE), avec anneau d'étanchéité de sécurité*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0 - 3 | **0.243.100** |
| 0 - 6 | **0.243.150** |
| 0 - 10 | **0.243.160** |

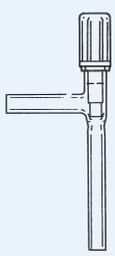


**0.243.1****

**Needle valve, stopcock angled, „Economy“,** with PTFE-needle valve, with sealing ring, sealing system with overtwist safety device, made of borosilicate glass

***Robinets angulaire,*** *en verre borosilicaté à clé à pointeau en Téflon (PTFE), avec anneau d'étanchéité de sécurité*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0 - 3 | **0.243.200** |
| 0 - 6 | **0.243.250** |
| 0 - 10 | **0.243.260** |



**0.243.2****

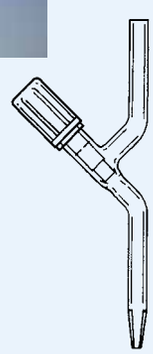
**Needle valve, stopcock „Economy“,** for burettes, with PTFE-needle valve, with sealing ring, sealing system with overtwist safety device, made of borosilicate glass

***Robinets,*** *en verre borosilicaté pour burette à clé à pointeau en Téflon (PTFE), avec anneau d'étanchéité de sécurité*

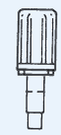
| Bore<br>*Voie*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|
| 0 - 3 | lateral / *latérale* | **0.243.300** |
| 0 - 3 | straight / *droit* | **0.243.400** |



**0.243.3****



**0.243.4****

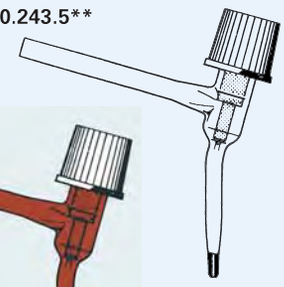


0.243.5**

**Spare PTFE-needle valve,** for valves **„Economy“,** with sealing system, with overtwist safety device, made of PTFE

***Clé à pointeau en Téflon (PTFE) de rechange,*** *pour vannes du type "Economy", avec système de fermeture et dipositif de sécurité*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0 - 3 | 0.243.500 |
| 0 - 6 | 0.243.550 |
| 0 - 10 | 0.243.560 |



0.244.101

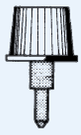


0.244.201

**Needle valve stopcocks made of glass for burettes,** lateral, with PTFE--needle valve

***Robinets latéraux en verre,*** *pour burettes avec clé en Téflon (PTFE)*

| Bore<br>*Voie*<br>mm | Glass<br>*Verre* | Order No.<br>*N° de code* |
|---|---|---|
| 0 - 2.5 | Soda glass / *verre de chimie* | 0.244.001 |
| 0 - 2.5 | Borosilicate / *verre borosilicaté* | 0.244.101 |
| 0 - 2.5 | Amber glass / *verre brun* | 0.244.201 |

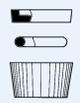


0.244.3**

**Separate PTFE-needle valve,** for lateral burettes plug

***Clé en Téflon (PTFE) séparée,*** *pour burettes à robinet latéral*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0 - 2.5 | 0.244.300 |

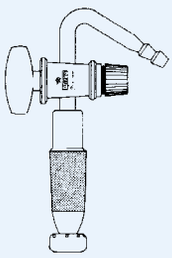


0.245.***
0.245.1**

**Separate screw-thread retaining nuts,** for solid standardized stopcock plugs, in 3 parts, made of Polypropylene (PP)

***Systèmes de fermeture à vis*** *pour clés en verre plein de robinet, en polypropylène (PP)*

| ST<br>*RIN* | GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|---|
| 12.5 | 8 | 0.245.008 |
| 14.5 | 9 | 0.245.009 |
| 18.8 | 12 | 0.245.012 |



0.246.002



0.246.202

**Separate screw-thread retaining nuts,** for hollow standardized stopcock plugs, made of ULTRADUR

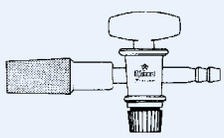
***Systèmes de fermeture à vis*** *pour clés en verre creux de robinet, en Ultradur*

| ST<br>*RIN* | GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|---|
| 12.5 | 8 | 0.245.108 |
| 14.5 | 9 | 0.245.109 |
| 18.8 | 12 | 0.245.112 |
| 21.5 | 14 | 0.245.114 |

**Stopcocks for dessicator lids,** with cone ST 24/29, with solid plug 14.5, bore of plug 2.5 mm

***Robinets pour couvercle de dessicateur à RIN 24/29,*** *à clé en verre plein. Voie de 2.5 mm*

| Glass<br>*Verre* | Order No.<br>*N° de code* |
|---|---|
| Borosilicate / *verre borosilicaté* | 0.246.002 |
| Amber glass / *verre brun* | 0.246.202 |



0.247.002

**Stopcocks for dessicator lateral tubes,** with cone ST 24/29, with solid plug 14.5, bore of plug 2.5 mm

***Robinets pour dessicateur à raccordement latéral RIN 24/29,*** *à clé en verre plein. Voie de 2.5 mm*

| Glass<br>*Verre* | Order No.<br>*N° de code* |
|---|---|
| Borosilicate / *verre borosilicaté* | 0.247.002 |
| Amber glass / *verre brun* | 0.247.202 |



0.247.202

**ATTENTION**

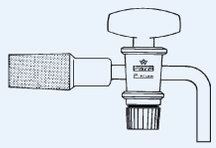
**NEW STOPCOCK DESIGN FOR DESSICATORS, SEE PAGE 315**

*NOUVEAU ROBINET POUR DESSICATEURS, PAGE 315*

**Taps for bottles,** clear, made of borosilicate glass

***Robinets forme canelle,*** *en verre borosilicaté, clair, à rodage conique RIN*

| Cone ST<br>*Rodage male* | Plug ST<br>*Clé* | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 19/26 | 14.5 | 2.5 | **0.248.002** |
| 19/26 | 18.8 | 4 | **0.248.004** |
| 24/29 | 21.5 | 6.3 | **0.248.006** |
| 24/29 | 24 | 8 | **0.248.008** |
| 29/32 | 21.5 | 6.3 | **0.248.010** |
| 29/32 | 24 | 8 | **0.248.012** |



**0.248.*****

**Taps for bottles,** made of amber borosilicate glass

***Robinets forme canelle,*** *en verre brun borosilicaté à rodage conique RIN*

| Cone ST<br>*Rodage male* | Plug ST<br>*Clé* | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 19/26 | 18.8 | 4 | **0.248.104** |
| 29/32 | 21.5 | 6.3 | **0.248.110** |



**0.248.1****

**Taps for aspirator bottles,** made of clear borosilicate glass

***Robinets à rodage conique pour bonbonne (baril),*** *en verre clair borosilicaté*

| For Order No.<br>*Pour N° de code* | Order No.<br>*N° de code* |
|---|---|
| 5.611.001 / 002 | **0.248.206** |
| 5.611.005 / 010 | **0.248.210** |

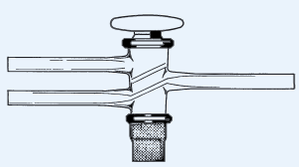


**0.248.2****

**Stopcocks, double bore,** acc. to DIN 12553, with solid ST-plug, with capillary side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre à deux voies*** *à clé en verre plein interchangeable, branches à tube capillaire droit et système de fixation, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.250.001** |
| 2.5 | 18.8 | 9 | 100 | **0.250.002** |



**0.250.*****
**0.251.*****

**Stopcocks, double bore,** acc. to DIN 12553, with solid ST-plug, with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre à deux voies*** *à clé en verre plein interchangeable, branches droites à tube en verre standard et système de fixation, en verre borosilicaté*

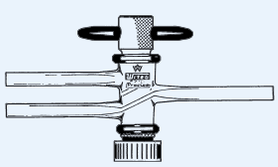
| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.251.001** |
| 2.5 | 18.8 | 9 | 100 | **0.251.002** |
| 4 * | 21.5 | 10 | 110 | **0.251.004** |

* not acc. to DIN / * *ne repond pas à la norme DIN*

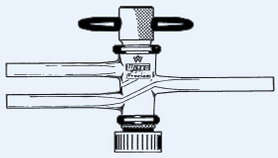
**Stopcocks, double bore,** acc. to DIN 12553, with ST-PTFE-plug, with capillary side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre à deux voies à clé interchangeable en PTFE,*** *avec branches à tube capillaire et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.252.001** |
| 2.5 | 18.8 | 9 | 100 | **0.252.002** |



**0.252.*****



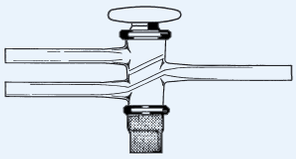
**0.253.*****

**Stopcocks, double bore,** acc. to DIN 12553, with ST-PTFE-plug, with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre à deux voies à clé interchangeable en PTFE,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.253.001** |
| 2.5 | 18.8 | 9 | 100 | **0.253.002** |
| 4 * | 21.5 | 10 | 110 | **0.253.004** |
| 6.3 * | 24 | 13 | 120 | **0.253.006** |

* not acc. to DIN / ** ne répond pas à la norme DIN*



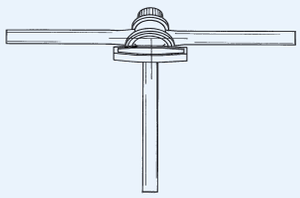
**0.254.*****

**Stopcocks, double bore,** acc. to DIN 12553, **with hollow plug,** with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre à deux voies à clé interchangeable en verre creux,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.254.001** |
| 2.5 | 18.8 | 9 | 100 | **0.254.002** |
| 4 * | 21.5 | 10 | 110 | **0.254.004** |
| 6.3 * | 24 | 13 | 120 | **0.254.006** |

* not acc. to DIN / ** ne répond pas à la norme DIN*

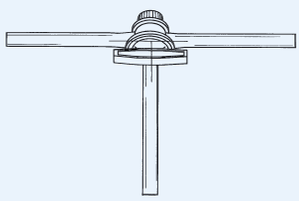


**0.262.*****

**Stopcocks, three way,** acc. to DIN 12554, T-bore, with solid ST-plug, with capillary side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à trois voies, à clé interchangeable en verre plein,*** *avec branches à tube capillaire et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.262.001** |
| 2.5 | 18.8 | 9 | 100 | **0.262.002** |



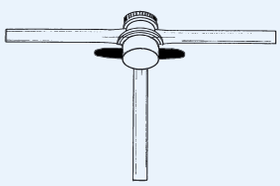
**0.263.*****

**Stopcocks, three way,** acc. to DIN 12554, T-bore, with solid ST-plug, with standard glass tube side arms with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à trois voies, à clé interchangeable en verre plein,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.263.001** |
| 2.5 | 18.8 | 9 | 100 | **0.263.002** |
| 4 * | 21.5 | 10 | 110 | **0.263.004** |
| 6.3 * | 24 | 13 | 120 | **0.263.006** |
| 8 * | 29.2 | 13 | 120 | **0.263.008** |

* not acc. to DIN / ** ne répond pas à la norme DIN*



**0.264.*****

**Stopcocks, three way,** acc. to DIN 12554, T-bore, with ST-PTFE-plug, with capillary side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à trois voies, à clé interchangeable en PTFE,*** *avec branches à tube capillaire et système de fixation à vis, en verre borosilicaté*

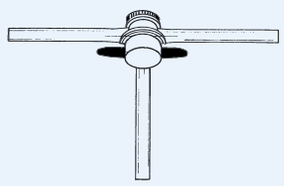
| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 12.5 | 8 | 100 | **0.264.000** |
| 1.6 | 14.5 | 8 | 100 | **0.264.001** |
| 2.5 | 18.8 | 9 | 100 | **0.264.002** |

**Stopcocks, three-way,** acc. to DIN 12554, T-bore, with ST-PTFE-plug, with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à trois voies, à clé interchangeable en PTFE,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.265.001** |
| 2.5 | 18.8 | 9 | 100 | **0.265.002** |
| 4 * | 21.5 | 10 | 110 | **0.265.004** |
| 6.3 * | 24 | 13 | 120 | **0.265.006** |
| 8 * | 29.2 | 13 | 120 | **0.265.008** |

* not acc. to DIN / * *ne répond pas à la norme DIN*



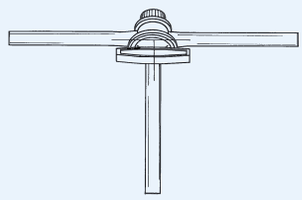
**0.265.***

**Stopcocks, three-way,** acc. to DIN 12554, T-bore, **with hollow plug,** with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à trois voies, à clé interchangeable en verre creux,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.266.001** |
| 2.5 | 18.8 | 9 | 100 | **0.266.002** |
| 4 * | 21.5 | 10 | 110 | **0.266.004** |
| 6.3 * | 24 | 13 | 120 | **0.266.006** |
| 8 * | 29.2 | 13 | 120 | **0.266.008** |

* not acc. to DIN / * *ne répond pas à la norme DIN*

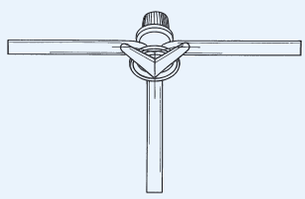


**0.266.***

**Stopcocks, three-way, acc. to Czako,** acc. to DIN 12563, with solid ST-plug, with capillary side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à 3 voies, type Czako et clé en verre plein interchangeable.*** *Branches à tube capillaire et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.268.001** |
| 2.5 | 18.8 | 9 | 100 | **0.268.002** |



**0.268.***

**Stopcocks, three-way, acc. to Czako,** acc. to DIN 12563, with solid ST-plug, with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à 3 voies, type Czako et clé en verre plein interchangeable,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.268.101** |
| 2.5 | 18.8 | 9 | 100 | **0.268.102** |
| 4 | 21.5 | 10 | 110 | **0.268.104** |

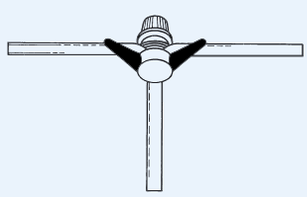


**0.268.1****

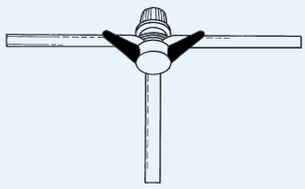
**Stopcocks, three-way, acc. to Czako,** acc. to DIN 12563, with ST-PTFE-plug, with capillary side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à 3 voies, type Czako et clé en PTFE interchangeable.*** *Branches à tube capillaire et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.269.001** |
| 2.5 | 18.8 | 9 | 100 | **0.269.002** |



**0.269.***

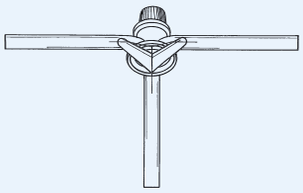


**0.269.*****
**0.269.1****

**Stopcocks, three-way, acc. to Czako,** acc. to DIN 12563, with ST-PTFE-plug, with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à 3 voies, type Czako et clé en PTFE interchangeable,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.269.101** |
| 2.5 | 18.8 | 9 | 100 | **0.269.102** |
| 4 | 21.5 | 10 | 110 | **0.269.104** |

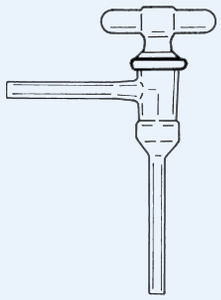


**0.269.2****

**Stopcocks, three-way, acc. to Czako, with hollow plug,** acc. to DIN 12563, with standard glass tube side arms, with screw-thread retaining nut (DGBM), made of borosilicate glass

***Robinets en verre en Té à 3 voies, type Czako et clé en verre creux interchangeable,*** *avec branches à tube en verre standard et système de fixation à vis, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.6 | 14.5 | 8 | 100 | **0.269.201** |
| 2.5 | 18.8 | 9 | 100 | **0.269.202** |
| 4 | 21.5 | 10 | 110 | **0.269.204** |



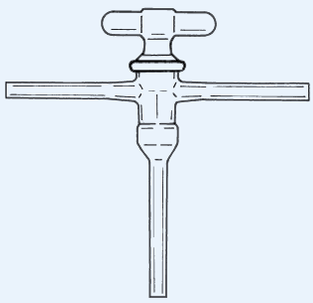
**0.270.*****

**Stopcocks, acc. to Schiff, L-shape,** acc. to DIN 12545, with hollow ST-plug, high vacuum, made of borosilicate glass

***Robinets en forme de L, selon Schiff,*** *à clé en verre creux interchangeable, pour vide poussé, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2.5 | 14.5 | 9 | 100 | **0.270.002** |
| 4 | 18.8 | 10 | 110 | **0.270.004** |
| 6.3 | 21.5 | 13 | 120 | **0.270.006** |
| 8 * | 24 | 15 | 120 | **0.270.008** |
| 10 | 29.2 | 18 | 120 | **0.270.010** |
| 12 ** | 34.5 | 20 | 120 | **0.270.012** |

* acc. to DIN 12557
** without DIN / *ne répond pas à la norme DIN*



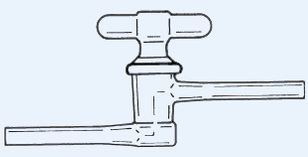
**0.272.*****

**Stopcocks, acc. to Schiff, T-shape,** acc. to DIN 12545, with hollow ST-plug, high vacuum, made of borosilicate glass

***Robinets en forme de Té, selon Schiff,*** *à clé en verre creux interchangeable, pour vide poussé, en verre borosilicaté*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2.5 | 14.5 | 9 | 100 | **0.272.002** |
| 4 | 18.8 | 10 | 110 | **0.272.004** |
| 6.3 | 21.5 | 13 | 120 | **0.272.006** |
| 8 * | 24 | 15 | 120 | **0.272.008** |
| 10 | 29.2 | 18 | 120 | **0.272.010** |
| 12 ** | 34.5 | 20 | 120 | **0.272.012** |

* acc. to DIN 12557
** without DIN / *ne répond pas à la norme DIN*



**0.274.*****

**Stopcocks, acc. to Schiff,** acc. to DIN 12545, with hollow ST-plug, high vacuum, made of borosilicate glass

***Robinets selon Schiff à clé en verre creux interchangeable,*** *pour vide poussé, en verre borosilicaté*

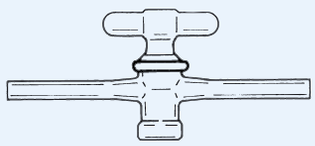
| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2.5 | 14.5 | 9 | 100 | **0.274.002** |
| 4 | 18.8 | 10 | 110 | **0.274.004** |
| 6.3 | 21.5 | 13 | 120 | **0.274.006** |
| 8 * | 24 | 15 | 120 | **0.274.008** |
| 10 | 29.2 | 18 | 120 | **0.274.010** |
| 12 ** | 34.5 | 20 | 120 | **0.274.012** |

* acc. to DIN 12557
** without DIN / *ne répond pas à la norme DIN*

**Stopcocks one-way closed, acc. to Schiff, with hollow ST-plug,** high vacuum, made of borosilicate glass

***Robinets type sac, selon Schiff à clé en verre borosilicaté creux interchangeable,*** *pour vide poussé*

| Bore of plug<br>*Voie de la clé*<br>mm | ST<br>*RIN* | Side arms Ø<br>*Branche cap. Ø*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2.5 | 14.5 | 9 | 100 | **0.276.002** |
| 4 | 18.8 | 10 | 110 | **0.276.004** |
| 6.3 | 21.5 | 13 | 120 | **0.276.006** |
| 8 | 24 | 15 | 120 | **0.276.008** |
| 10 | 29.2 | 18 | 120 | **0.276.010** |
| 12 | 34.5 | 20 | 120 | **0.276.012** |



**0.276.*****

**High vacuum stopcock „Witaflo“,** with PTFE needle valve, straight, red, with adjustable PTFE-seal. Leak rate > $10^{-7}$, usable between - 20 to + 200 °C, made of borosilicate glass, with overtwist safety device, made of borosilicate glass

***Robinets „Witaflo“*** *pour vide poussé droit en verre borosilicaté avec clé à pointeau en PTFE, rouge avec joint en PTFE réglable et système de fixation à sécurité, résistant jusqu'à 200°C, débit de fuite > $10^{-7}$ mmHg*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 7 / 8 | 210 | **0.290.102** |
| 3 | 8 | 210 | **0.290.103** |
| 6 | 10 | 210 | **0.290.106** |
| 10 | 13 | 225 | **0.290.110** |
| 12 | 15 | 225 | **0.290.112** |
| 14 | 18 | 225 | **0.290.114** |



**0.290.1****

**High vacuum stopcock „Witaflo“,** with PTFE needle valve, angled, red, with adjustable PTFE-seal. Leak rate > $10^{-7}$, usable between -20 to +200 °C, made of borosilicate glass, with overtwist safety device, made of borosilicate glass

***Robinets „Witaflo“*** *pour vide poussé angulaire en verre borosilicaté avec clé à pointeau en PTFE, rouge avec joint en PTFE réglable et fermeture à sécurité, résistant jusqu'à 200°C, débit de fuite > $10^{-7}$ mmHg*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 7 / 8 | 210 | **0.290.202** |
| 3 | 8 | 210 | **0.290.203** |
| 6 | 10 | 210 | **0.290.206** |
| 10 | 13 | 225 | **0.290.210** |
| 12 | 15 | 225 | **0.290.212** |
| 14 | 18 | 225 | **0.290.214** |

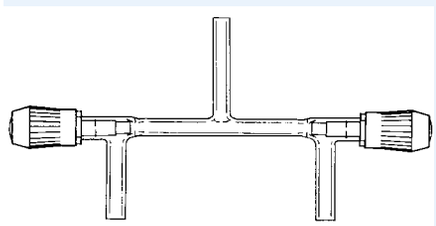


**0.290.2****

**Three-way high vacuum stopcock „Witaflo“,** with PTFE needle valve, red, with adjustable PTFE-seal. Leak rate > $10^{-7}$, usable between -20 to +200 °C, made of borosilicate glass, with overtwist safety device, made of borosilicate glass

***Robinets „Witaflo“*** *pour vide poussé à trois voies en verre borosilicaté avec clé à pointeau en PTFE, rouge avec joint en PTFE réglable et fermeture à sécurité, résistant jusqu'à 200°C, débit de fuite > $10^{-7}$ mmHg*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3 | 8 | 215 | **0.290.303** |
| 6 | 10 | 220 | **0.290.306** |



**0.290.3****

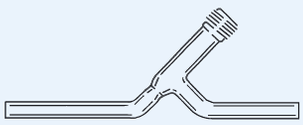
**Spare-PTFE needle valve, red**

***Clé à pointeau en PTFE***
*à bouton rouge de rechange*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 2 | **0.290.402** |
| 3 | **0.290.403** |
| 6 | **0.290.406** |
| 10 | **0.290.410** |
| 12 | **0.290.412** |
| 14 | **0.290.414** |



**0.290.4****

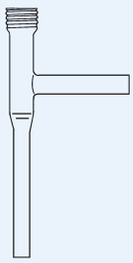


**0.290.5****

**Spare-glass housings, straight**, made of borosilicate glass

***Corps droit de robinet***
*en verre borosilicaté de rechange*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 2 | **0.290.502** |
| 3 | **0.290.503** |
| 6 | **0.290.506** |
| 10 | **0.290.510** |
| 12 | **0.290.512** |
| 14 | **0.290.514** |



**0.290.6****

**Spare-glass housings, angled**, made of borosilicate glass

***Corps de robinet angulaire***
*en verre borosilicaté de rechange*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 2 | **0.290.602** |
| 3 | **0.290.603** |
| 6 | **0.290.606** |
| 10 | **0.290.610** |
| 12 | **0.290.612** |
| 14 | **0.290.614** |

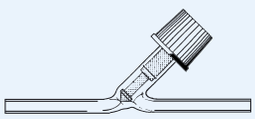


**0.290.7****

**Spare-overtwist safety device**

***Système de fixation***
*à sécurité de rechange*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 2 | **0.290.702** |
| 3 | **0.290.703** |
| 6 | **0.290.706** |
| 10 | **0.290.710** |
| 12 | **0.290.712** |
| 14 | **0.290.714** |

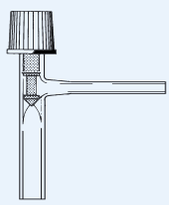


**0.290.8****

**Straight vacuum stopcock,** with PTFE needle valve and PTFE coated O-ring seal. Leak rate > $10^{-5}$, made of borosilicate glass

***Robinet droit pour vide,*** *en verre borosilicaté, avec clé à pointeau en PTFE et joint revêtu de téflon*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0 - 4 | **0.290.804** |
| 0 - 6 | **0.290.806** |



**0.290.9****

**Angled vacuum stopcock,** with PTFE needle valve and PTFE coated O-ring seal. Leak rate > $10^{-5}$, made of borosilicate glass

***Robinet angulaire pour vide,*** *en verre borosilicaté, avec clé à pointeau en PTFE et joint revêtu de téflon*

| Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0 - 4 | **0.290.904** |
| 0 - 6 | **0.290.906** |



**0.291.*****

**Straight high vacuum stopcock,** with PTFE needle valve „Witaflo“, adjustable, leak rate > $10^{-8}$, with interchangeable valve plug tip, made of borosilicate glass

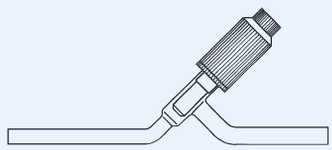
***Robinet droit pour vide poussé*** *en verre borosilicaté avec pointeau en téflon interchangeable „Witaflo“, débit de fuite > $10^{-8}$, en verre borosilicaté*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Length, arms<br>*Long. de branche*<br>mm | GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 3 | 8 | 75 | 14 | **0.291.003** |
| 6 | 10 | 75 | 18 | **0.291.006** |
| 10 | 18 | 85 | 24 | **0.291.010** |
| 15 | 20 | 85 | 24 | **0.291.015** |

**Straight high vacuum stopcock,** „Witaflo“, Type N, borosilicate glass, valve plug made of PTFE

***Robinet droit type N pour vide poussé*** *en verre borosilicaté avec pointeau en téflon interchangeable "Witaflo", débit de fuite > $10^{-8}$*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Length, arms<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3 | 8 | 75 | **0.291.103** |
| 6 | 10 | 75 | **0.291.106** |

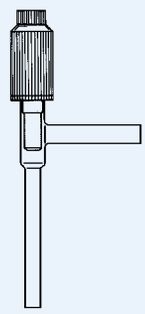


**0.291.***

**High vacuum valve , right angle,** „Witaflo“, borosilicate glass, valve plug made of PTFE

***Robinet à angle droit pour vide poussé*** *en verre borosilicaté avec pointeau en téflon interchangeable „Witaflo“, débit de fuite > $10^{-8}$*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Length, arms<br>*Long. de branche*<br>mm | GL<br>*GL* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 3 | 8 | 75 | 14 | **0.293.003** |
| 6 | 10 | 75 | 18 | **0.293.006** |
| 10 | 18 | 85 | 24 | **0.293.010** |
| 15 | 20 | 85 | 24 | **0.293.015** |



**0.293.***

**High vacuum valve , right angle,** „Witaflo“, Type N, borosilicate glass, valve plug made of PTFE

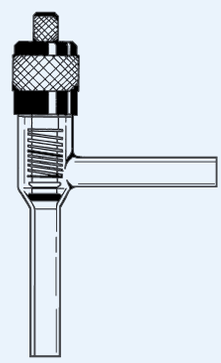
***Robinet à angle droit type N pour vide poussé*** *en verre borosilicaté avec pointeau en téflon interchangeable „Witaflo“, débit de fuite > $10^{-8}$*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Length, arms<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3 | 8 | 75 | **0.293.103** |
| 6 | 10 | 75 | **0.293.106** |

**90°, ultra high vacuum valves, „SVT“,** with valve-bellow, made of V4A steel, with Viton O-ring seal, leak rate > $10^{-9}$, made of borosilicate glass

***Robinet angulaire à 90° pour ultra-vide,*** *en verre borosilicaté avec vanne en acier inoxydable et joint en viton, débit de fuite > $10^{-9}$, en verre borosilicaté*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Length, arms<br>*Long. de branche*<br>mm | | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 9 | 12 | 60 | * | **0.298.010** |
| 20 | 26 | 75 | * | **0.298.020** |



**0.298.***

* as long on stock

**Standard Rotaflo stopcocks,**
with 2 side arms in-line for vacuum up to $10^{-4}$ mm Hg, made of borosilicate glass

***Robinet standard Rotaflo***
*à 2 branches en ligne, pour vide jusqu'à $10^{-4}$ mm Hg, en verre borosilicaté*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Oerall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3 | 8 | 210 | **0.299.000** |
| 6 | 10 | 210 | **0.299.001** |



**0.299.00***
**0.299.02***

**Standard Rotaflo stopcocks,**
with 2 perpendicular arms for vacuum up to $10^{-4}$ mm Hg, made of borosilicate glass

***Robinet standard Rotaflo***
*à 2 branches perpendiculaires, pour vide jusqu'à $10^{-4}$ mm Hg, en verre borosilicaté*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Oerall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3 | 8 | 150 | **0.299.010** |
| 6 | 10 | 165 | **0.299.011** |

**High-performance Rotaflo stopcocks,**
with 2 side arms in-line for vacuum up to $10^{-7}$ mm Hg, made of glass/PTFE chemically inert and resistant up to 200 °C, made of borosilicate glass

***Robinet Rotaflo à haute performance***
*à 2 branches en ligne pour vide jusqu'à $10^{-7}$ mm Hg, ensemble en verre/téflon (PTFE) chimiquement inerte, résistant jusqu'à 200 °C, en verre borosilicaté*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Oerall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3 | 8 | 210 | **0.299.020** |
| 6 | 10 | 210 | **0.299.021** |
| 10 | 10 | 225 | **0.299.022** |



**0.299.01***



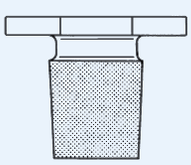
**0.299.03***

**High-performance Rotaflo stopcocks,** with 2 perpendicular arms for vacuum up to $10^{-7}$ mm Hg, made of glass/PTFE chemically inert and resistant up to 200 °C, made of borosilicate glass

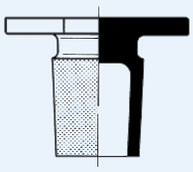
***Robinets Rotaflo à haute performance*** *à 2 branches perpendiculaires, pour vide jusqu'à $10^{-7}$ mm Hg, ensemble en verre/téflon (PTFE) chimiquement inerte, résistant jusqu'à 200 °C, en verre borosilicaté*

| Bore<br>*Voie*<br>mm | Side arms Ø<br>*Branche cap. Ø*<br>mm | Oerall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3 | 8 | 165 | **0.299.030** |
| 6 | 10 | 165 | **0.299.031** |

## ST-stoppers
## *Bouchons à rodages coniques*



**0.300.014**



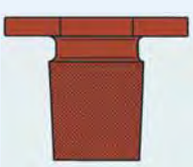
**0.300.034**

**ST-stoppers, with octagonal plate,** solid, made of borosilicate glass, acc. to DIN 12252

***Bouchons, plat à rodage conique,*** *forme octogonale, en verre borosilicaté plein*

| ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|
| 7/16 | **0.300.007** |
| 10/19 | **0.300.010** |
| 12/21 | **0.300.012** |
| 14/23 | **0.300.014** |
| 19/26 | **0.300.019** |
| 24/29 | **0.300.024** |
| 29/ 32 | **0.300.029** |
| 34/35 * | **0.300.034** |
| 45/40 * | **0.300.045** |
| 60/46 * | **0.300.060** |

* Semi-hollow / **Semi-creux*



**0.300.014 BR**



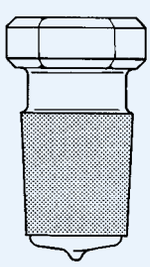
**0.300.034 BR**

**ST-stoppers, with octagonal plate,** solid, made of amber borosilicate glass, acc. to DIN 12252

***Bouchons, plat à rodage conique,*** *forme octogonale, en verre brun borosilicaté plein*

| ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|
| 7/16 | **0.300.007 BR** |
| 10/19 | **0.300.010 BR** |
| 12/21 | **0.300.012 BR** |
| 14/23 | **0.300.014 BR** |
| 19/26 | **0.300.019 BR** |
| 24/29 | **0.300.024 BR** |
| 29/ 32 | **0.300.029 BR** |
| 34/35 * | **0.300.034 BR** |
| 45/40 * | **0.300.045 BR** |
| 60/46 * | **0.300.060 BR** |

* Semi hollow / **Semi-creux*



**0.302.*****

**ST-hollow-stoppers, with hexagonal plate,** made of borosilicate glass, acc. to DIN 12252

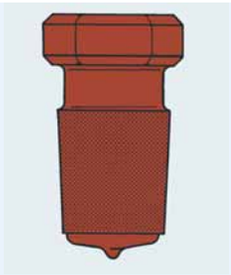
***Bouchons, plat à rodage conique,*** *forme hexagonale, en verre borosilicaté creux avec gouttière*

| ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|
| 7/16 | **0.302.007** |
| 10/19 | **0.302.010** |
| 12/21 | **0.302.012** |
| 14/23 | **0.302.014** |
| 19/26 | **0.302.019** |
| 24/29 | **0.302.024** |
| 29/32 | **0.302.029** |
| 34/35 | **0.302.034** |
| 45/40 | **0.302.045** |

**ST-hollow-stoppers,** with hexagonal plate, with drip in, made of amber borosilicate glass, acc. to DIN 12252

***Bouchons, plat à rodage conique,*** *forme hexagonale, en verre brun borosilicaté creux avec gouttière*

| ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|
| 7/16 | 0.303.007 |
| 10/19 | 0.303.010 |
| 12/21 | 0.303.012 |
| 14/23 | 0.303.014 |
| 19/26 | 0.303.019 |
| 24/29 | 0.303.024 |
| 29/32 | 0.303.029 |
| 34/35 | 0.303.034 |
| 45/40 | 0.303.045 |

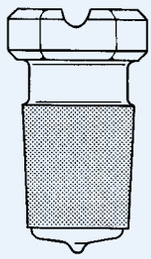


0.303.***

**ST-hollow-stoppers,** borosilicate glass, with octagonal plate, with safety nut, acc. to DIN 12252

***Bouchons, plat à rodage conique,*** *forme octagonale, en verre borosilicaté creux avec écrou de sécurité*

| ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|
| 10/19 | 0.304.010 |
| 12/21 | 0.304.012 |
| 14/23 | 0.304.014 |
| 19/26 | 0.304.019 |
| 24/29 | 0.304.024 |
| 29/32 | 0.304.029 |

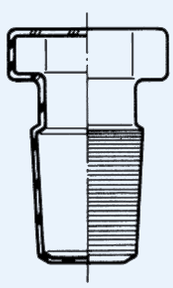


0.304.***

**ST-stoppers, short joint, hollow,** with hexagonal plate, flat, made of borosilicate glass

***Bouchons, plat à rodage conique court,*** *forme hexagonale, en verre borosilicaté creux*

| ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|
| 10/13 | 0.305.010 |
| 12/14 | 0.305.012 |
| 14/15 | 0.305.014 |
| 19/17 | 0.305.019 |
| 24/20 | 0.305.024 |
| 29/22 | 0.305.029 |

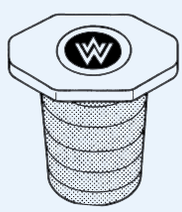


0.305.***

**Polyethylene-stoppers,** with octagonal plate, acc. to DIN 12254

***Bouchons plat à rodage conique*** *forme octagonale, en polyéthylène*

| ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|
| 7/16 | 0.306.007 |
| 10/19 | 0.306.010 |
| 12/21 | 0.306.012 |
| 14/23 | 0.306.014 |
| 19/26 | 0.306.019 |
| 24/29 | 0.306.024 |
| 29/32 | 0.306.029 |
| 34/35 | 0.306.034 |
| 45/40 | 0.306.045 |
| 60/46 | 0.306.060 |
| 85/55 | 0.306.085 |



0.306.***



**0.500.***



**0.500.003**



**0.500.016**




**0.510.***

## Adapters
## *Raccords*

**Reduction adapter, „Preciso“**, made of borosilicate glass, acc. to DIN 12257

***Tubes de réduction à rodage „Preciso“,*** *en verre borosilicaté*

| Cone ST<br>*Cône mâle* | Socket ST<br>*Cône femelle* | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 | 10/19 | * | **0.500.000** |
| 19/26 | 14/23 | | **0.500.001** |
| 24/29 | 14/23 | * | **0.500.002** |
| 29/32 | 14/23 | | **0.500.003** |
| 24/29 | 19/26 | * | **0.500.004** |
| 29/32 | 19/26 | | **0.500.005** |
| 29/32 | 24/29 | * | **0.500.006** |
| 45/40 | 24/29 | * | **0.500.007** |
| 45/40 | 29/32 | | **0.500.008** |
| 60/46 | 45/40 | * | **0.500.009** |
| 71/51 | 45/40 | * | **0.500.010** |
| 71/51 | 60/46 | * | **0.500.011** |
| 60/46 | 29/32 | * | **0.500.012** |
| 34/35 | 19/26 | * | **0.500.013** |
| 34/35 | 24/29 | * | **0.500.014** |
| 34/35 | 29/32 | * | **0.500.015** |
| 50/42 | 29/32 | * | **0.500.016** |
| 55/44 | 29/32 | * | **0.500.017** |
| 14/23 | 12/21 | | **0.500.018** |
| 40/38 | 19/26 | | **0.500.019** |
| 45/40 | 34/35 | | **0.500.020** |

**Expansion adapters,** made of borosilicate glass, acc. to DIN 12257

***Tubes d’élargissement à rodage,*** *en verre borosilicaté*

| Cone ST<br>*Cône mâle* | Socket ST<br>*Cône femelle* | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|
| 10/19 | 14/23 | * | **0.510.000** |
| 14/23 | 19/26 | | **0.510.001** |
| 14/23 | 24/29 | * | **0.510.002** |
| 14/23 | 29/32 | | **0.510.003** |
| 19/26 | 24/29 | * | **0.510.004** |
| 19/26 | 29/32 | | **0.510.005** |
| 24/29 | 29/32 | * | **0.510.006** |
| 24/29 | 45/40 | * | **0.510.007** |
| 29/32 | 45/40 | | **0.510.008** |
| 45/40 | 60/46 | | **0.510.009** |
| 45/40 | 71/51 | * | **0.510.010** |
| 19/26 | 34/35 | * | **0.510.011** |
| 24/29 | 34/35 | * | **0.510.012** |
| 29/32 | 34/35 | | **0.510.013** |
| 14/23 | 34/35 | | **0.510.014** |
| 12/21 | 14/23 | | **0.510.018** |
| 34/35 | 45/40 | | **0.510.019** |
| 14/23 | 14/23 | | **0.510.020** |
| 19/26 | 19/26 | | **0.510.021** |
| 24/29 | 24/29 | | **0.510.022** |
| 29/32 | 29/32 | | **0.510.023** |

**Conical-spherical adapter**
made of borosilicate glass

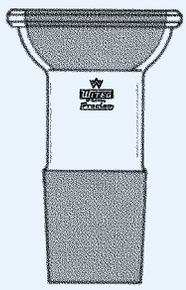
***Raccord à rodage conique et sphérique,*** *en verre borosilicaté*

| Cone ST<br>*Cône mâle* | Cup S<br>*Rodage sphérique femelle* | Order No.<br>*N° de code* |
|---|---|---|
| 29/32 | 35/20 | **0.520.029** |

**Spherical-conical adapter**
made of borosilicate glass

***Raccord à rodage conique et sphérique,*** *en verre borosilicaté*

| Ball S<br>*Rodage sphérique mâle* | Socket ST<br>*Cône femelle* | Order No.<br>*N° de code* |
|---|---|---|
| 29/15 | 19/26 | **0.530.029** |



**0.520.*****

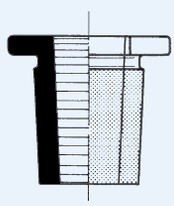


**0.530.*****

**Short adapters, socket in cone,** made of borosilicate glass, acc. to DIN 12257

***Raccords courts*** *à rodage conique et rodage femelle dans le cône, en verre borosilicaté*

| Cone ST<br>*Cône mâle* | Socket ST<br>*Cône femelle* | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|
| 19/26 | 14/23 | | **0.540.001** |
| 24/29 | 14/23 | * | **0.540.002** |
| 29/32 | 14/23 | | **0.540.003** |
| 24/29 | 19/26 | * | **0.540.004** |
| 29/32 | 19/26 | | **0.540.005** |
| 29/32 | 24/29 | * | **0.540.006** |
| 34/35 | 29/32 | * | **0.540.007** |
| 45/40 | 29/32 | * | **0.540.008** |
| 35/34 | 24/29 | * | **0.540.009** |
| 40/38 | 24/29 | * | **0.540.010** |



**0.540.*****

**Screw-threads, with cone, only glass parts,** made of borosilicate glass, acc. to DIN 12257

***Raccords à vis et à rodage conique,*** *uniquement les parties, en verre borosilicaté*

| Screw thread<br>*Filetage*<br>GL | Cone ST<br>*Cône mâle* | Seal<br>*Joint* | Length<br>*Longueur*<br>mm | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 14 | 14/23 | 12 x 6 | 55 | | **0.550.001** |
| 14 | 19/26 | 12 x 6 | 60 | | **0.550.002** |
| 14 | 24/29 | 12 x 6 | 65 | * | **0.550.003** |
| 14 | 29/32 | 12 x 6 | 70 | * | **0.550.004** |
| 14 | 34/35 | 12 x 6 | 75 | | **0.550.005** |
| 18 | 14/23 | 16 x 8 | 60 | * | **0.550.010** |
| 18 | 19/26 | 16 x 8 | 60 | | **0.550.011** |
| 18 | 24/29 | 16 x 8 | 75 | * | **0.550.012** |
| 18 | 29/32 | 16 x 8 | 75 | | **0.550.013** |
| 18 | 34/35 | 16 x 8 | 75 | * | **0.550.014** |
| 25 | 14/23 | 22 x 10 | 75 | * | **0.550.019** |
| 25 | 19/26 | 22 x 10 | 65 | * | **0.550.020** |
| 25 | 24/29 | 22 x 10 | 70 | * | **0.550.021** |
| 25 | 29/32 | 22 x 10 | 75 | | **0.550.022** |
| 25 | 34/35 | 22 x 10 | 75 | | **0.550.023** |
| 25 | 45/40 | 22 x 10 | 100 | | **0.550.024** |
| 32 | 14/23 | 29 x 14 | 80 | | **0.550.028** |
| 32 | 19/26 | 29 x 14 | 80 | | **0.550.029** |
| 32 | 24/29 | 29 x 14 | 80 | * | **0.550.030** |
| 32 | 29/32 | 29 x 14 | 85 | | **0.550.031** |
| 32 | 45/40 | 29 x 14 | 100 | | **0.550.032** |
| 45 | 24/29 | 42 x 26 | 85 | | **0.550.039** |
| 45 | 29/32 | 42 x 26 | 85 | | **0.550.040** |
| 45 | 45/40 | 42 x 26 | 95 | | **0.550.041** |

Caps and seals see page 9 / *Bouchons et joints voir page 9*



**0.550.*****

## Flasks Medium Neck
*Ballons*



**0.600.*** - 0.602.***

**Flasks, round bottom, center neck,** made of borosilicate glass, acc. to DIN 12348

***Ballons à fond rond monocol à rodage,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | not acc. to DIN<br>*ne repond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 5 | 14/23 | 30 | 65 | * | **0.600.005** |
| 10 | 14/23 | 34 | 68 | * | **0.600.010** |
| 25 | 14/23 | 41 | 75 | * | **0.600.025** |
| 50 | 14/23 | 51 | 90 | | **0.600.050** |
| 100 | 14/23 | 64 | 110 | | **0.600.100** |
| 250 | 14/23 | 85 | 140 | * | **0.600.250** |
| 25 | 19/26 | 41 | 75 | * | **0.601.025** |
| 50 | 19/26 | 51 | 90 | | **0.601.050** |
| 100 | 19/26 | 64 | 110 | | **0.601.100** |
| 250 | 19/26 | 85 | 140 | | **0.601.250** |
| 500 | 19/26 | 105 | 170 | * | **0.601.500** |
| 25 | 24/29 | 51 | 100 | | **0.602.025** |
| 50 | 24/29 | 51 | 100 | * | **0.602.050** |
| 100 | 24/29 | 64 | 110 | * | **0.602.100** |
| 150 | 24/29 | 75 | 120 | * | **0.602.150** |
| 250 | 24/29 | 85 | 140 | * | **0.602.250** |
| 500 | 24/29 | 105 | 170 | * | **0.602.500** |
| 1000 | 24/29 | 131 | 210 | * | **0.602.001** |
| 2000 | 24/29 | 166 | 260 | | **0.602.002** |



**0.603.*** - 0.604.***

**Flasks, round bottom, center neck**, made of borosilicate glass, acc. to DIN 12348

***Ballons à fond rond monocol à rodage,*** *en verre borosilicaté*

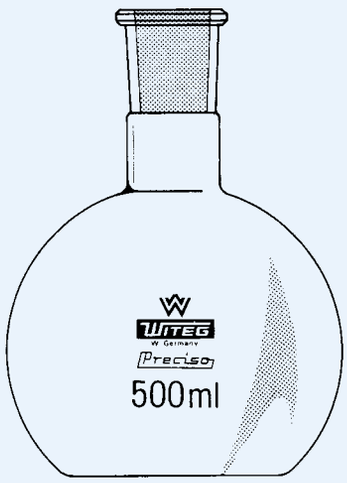
| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 25 | 29/32 | 41 | 75 | | **0.603.025** |
| 50 | 29/32 | 51 | 90 | * | **0.603.050** |
| 100 | 29/32 | 64 | 110 | | **0.603.100** |
| 150 | 29/32 | 75 | 125 | | **0.603.150** |
| 250 | 29/32 | 85 | 140 | | **0.603.250** |
| 500 | 29/32 | 105 | 170 | | **0.603.500** |
| 1000 | 29/32 | 131 | 210 | | **0.603.001** |
| 2000 | 29/32 | 166 | 260 | | **0.603.002** |
| 3000 | 29/32 | 185 | 280 | * | **0.603.003** |
| 4000 | 29/32 | 207 | 310 | * | **0.603.004** |
| 5000 | 29/32 | 223 | 335 | * | **0.603.005** |
| 6000 | 29/32 | 236 | 350 | * | **0.603.006** |
| 10000 | 29/32 | 279 | 420 | * | **0.603.010** |
| 250 | 45/40 | 85 | 140 | | **0.604.250** |
| 500 | 45/40 | 105 | 170 | | **0.604.500** |
| 1000 | 45/40 | 131 | 210 | | **0.604.001** |
| 2000 | 45/40 | 166 | 260 | | **0.604.002** |
| 3000 | 45/40 | 185 | 280 | | **0.604.003** |
| 4000 | 45/40 | 207 | 310 | | **0.604.004** |
| 5000 | 45/40 | 223 | 335 | | **0.604.005** |
| 6000 | 45/40 | 236 | 350 | | **0.604.006** |
| 10000 | 45/40 | 279 | 420 | | **0.604.010** |
| 20000 | 45/40 | 345 | 515 | * | **0.604.020** |

Short neck also available (please add SN) *.***.*** SN

**Flasks, flat bottom, center neck,** made of borosilicate glass, acc. to DIN 12348

***Ballons à fond plat monocol à rodage,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 25 | 14/23 | 42 | 72 | | **0.611.025** |
| 50 | 14/23 | 51 | 100 | | **0.611.050** |
| 100 | 14/23 | 65 | 103 | | **0.611.100** |
| 50 | 19/26 | 51 | 95 | | **0.612.050** |
| 100 | 19/26 | 64 | 105 | | **0.612.100** |
| 250 | 19/26 | 85 | 135 | * | **0.612.250** |
| 500 | 19/26 | 105 | 165 | * | **0.612.500** |
| 50 | 24/29 | 51 | 95 | * | **0.613.050** |
| 100 | 24/29 | 64 | 105 | * | **0.613.100** |
| 250 | 24/29 | 85 | 135 | * | **0.613.250** |
| 500 | 24/29 | 105 | 165 | * | **0.613.500** |
| 1000 | 24/29 | 131 | 195 | * | **0.613.001** |
| 2000 | 24/29 | 166 | 245 | * | **0.613.002** |
| 50 | 29/32 | 51 | 95 | * | **0.614.050** |
| 100 | 29/32 | 64 | 105 | | **0.614.100** |
| 150 | 29/32 | 75 | 125 | | **0.614.150** |
| 250 | 29/32 | 85 | 135 | | **0.614.250** |
| 500 | 29/32 | 105 | 165 | | **0.614.500** |
| 1000 | 29/32 | 131 | 195 | | **0.614.001** |
| 2000 | 29/32 | 166 | 245 | | **0.614.002** |




**0.611.*****
**-**
**0.614.*****

**Flasks, flat bottom, center neck**, made of borosilicate glass, acc. to DIN 12348

***Ballons à fond plat monocol à rodage conique,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 250 | 45/40 | 85 | 137 | | **0.615.250** |
| 500 | 45/40 | 100 | 170 | | **0.615.500** |
| 1000 | 45/40 | 120 | 190 | | **0.615.001** |
| 2000 | 45/40 | 166 | 245 | | **0.615.002** |
| 4000 | 45/40 | 207 | 290 | | **0.615.004** |
| 10000 | 45/40 | 280 | 375 | | **0.615.010** |




**0.615.*****

**Flasks, round bottom, center neck**, made of amber borosilicate glass, acc. to DIN 12348

***Ballons à fond rond monocol à rodage conique,*** *en verre brun borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 25 | 14/23 | 41 | 75 | * | **0.615.025** |
| 50 | 14/23 | 51 | 90 | | **0.615.050** |
| 100 | 14/23 | 64 | 110 | | **0.615.100** |
| 25 | 19/26 | 41 | 75 | * | **0.616.025** |
| 50 | 19/26 | 51 | 90 | | **0.616.050** |
| 100 | 19/26 | 64 | 110 | | **0.616.100** |
| 250 | 19/26 | 85 | 140 | * | **0.616.250** |
| 50 | 24/29 | 51 | 100 | * | **0.617.050** |
| 100 | 24/29 | 64 | 110 | * | **0.617.100** |
| 250 | 24/29 | 85 | 140 | * | **0.617.250** |
| 500 | 24/29 | 105 | 170 | * | **0.617.500** |
| 1000 | 24/29 | 131 | 210 | * | **0.617.001** |
| 2000 | 24/29 | 166 | 260 | * | **0.617.002** |
| 50 | 29/32 | 51 | 100 | * | **0.618.050** |
| 100 | 29/32 | 64 | 110 | | **0.618.100** |
| 250 | 29/32 | 85 | 140 | | **0.618.250** |
| 500 | 29/32 | 105 | 170 | | **0.618.500** |
| 1000 | 29/32 | 131 | 210 | | **0.618.001** |
| 2000 | 29/32 | 166 | 260 | | **0.618.002** |




**0.615.*****
**-**
**0.618.*****



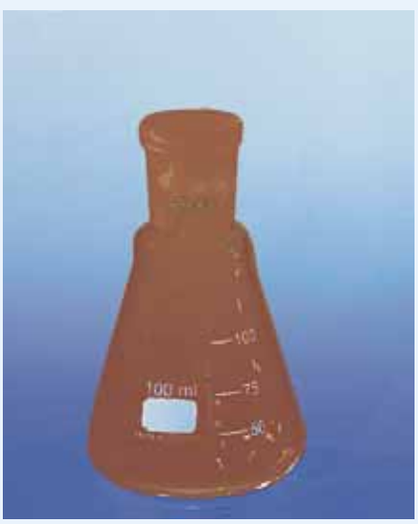

**0.619.*** - 0.624.*****

**Erlenmeyer flasks, graduated,** made of borosilicate glass, acc. to DIN 12387

***Fioles Erlenmeyer graduées,*** *col à rodage conique, sans bouchon, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 5 | 14/23 | 30 | 45 | * | **0.619.005** |
| 10 | 14/23 | 33 | 60 | * | **0.619.010** |
| 25 | 14/23 | 42 | 70 | | **0.619.025** |
| 50 | 14/23 | 51 | 80 | | **0.619.050** |
| 100 | 14/23 | 64 | 100 | | **0.619.100** |
| 25 | 19/26 | 42 | 70 | | **0.620.025** |
| 50 | 19/26 | 51 | 80 | | **0.620.050** |
| 100 | 19/26 | 64 | 100 | | **0.620.100** |
| 200 | 19/26 | 79 | 130 | * | **0.620.200** |
| 250 | 19/26 | 85 | 140 | * | **0.620.250** |
| 50 | 24/29 | 51 | 80 | * | **0.621.050** |
| 100 | 24/29 | 64 | 100 | | **0.621.100** |
| 200 | 24/29 | 79 | 130 | * | **0.621.200** |
| 250 | 24/29 | 85 | 140 | * | **0.621.250** |
| 300 | 24/29 | 87 | 150 | * | **0.621.300** |
| 500 | 24/29 | 105 | 170 | * | **0.621.500** |
| 1000 | 24/29 | 131 | 220 | * | **0.621.001** |
| 50 | 29/32 | 51 | 80 | | **0.622.050** |
| 100 | 29/32 | 64 | 100 | | **0.622.100** |
| 200 | 29/32 | 79 | 130 | * | **0.622.200** |
| 250 | 29/32 | 85 | 140 | | **0.622.250** |
| 300 | 29/32 | 87 | 150 | * | **0.622.300** |
| 500 | 29/32 | 105 | 170 | | **0.622.500** |
| 1000 | 29/32 | 131 | 220 | | **0.622.001** |
| 2000 | 29/32 | 166 | 280 | * | **0.622.002** |
| 200 | 45/40 | 79 | 130 | * | **0.624.200** |
| 250 | 45/40 | 85 | 140 | | **0.624.250** |
| 300 | 45/40 | 87 | 150 | * | **0.624.300** |
| 500 | 45/40 | 105 | 170 | | **0.624.500** |
| 1000 | 45/40 | 131 | 220 | | **0.624.001** |
| 2000 | 45/40 | 166 | 280 | * | **0.624.002** |
| 3000 | 45/40 | 187 | 310 | | **0.624.003** |
| 5000 | 45/40 | 220 | 365 | | **0.624.005** |

**For ST-Stoppers please refer to pages 28 and 29**
*Pour les bouchons à rodage, veuillez svp vous référer aux pages 28 et 29*



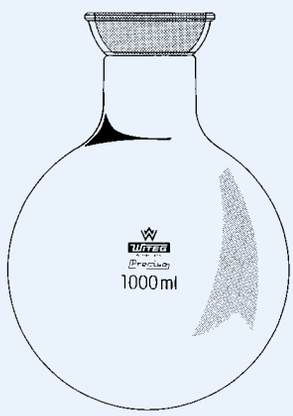

**0.622.*** BR**

**Erlenmeyer flasks, graduated**
acc. to DIN 12387, made of amber borosilicate glass

***Fioles Erlenmeyer graduées,*** *col à rodage conique, sans bouchon, en verre brun borosilicaté*

| Capacity<br>*Capacité*<br>*ml* | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>*mm* | Height<br>*Hauteur*<br>*mm* | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 50 | 29/32 | 51 | 95 | | **0.622.050 BR** |
| 100 | 29/32 | 64 | 100 | | **0.622.100 BR** |
| 200 | 29/32 | 79 | 130 | * | **0.622.200 BR** |
| 250 | 29/32 | 85 | 140 | | **0.622.250 BR** |
| 300 | 29/32 | 87 | 150 | * | **0.622.300 BR** |
| 500 | 29/32 | 105 | 170 | | **0.622.500 BR** |
| 1000 | 29/32 | 131 | 220 | | **0.622.001 BR** |

**For ST-Stoppers please refer to pages 28 and 29**
*Pour les bouchons à rodage, veuillez svp vous référer aux pages 28 et 29*




**0.645.*****

**Flasks, round bottom, medium neck,**
with spherical joint, uncoated, made of borosilicate glass

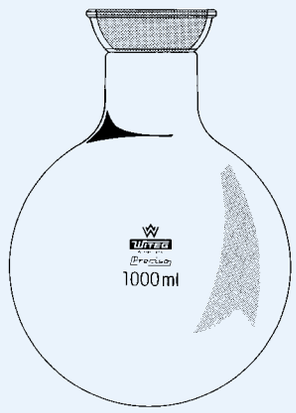
***Ballons à fond rond à rodage sphérique pour évaporateur rotatif,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | S<br>*RS* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 35/20 | 64 | 110 | **0.644.100** |
| 250 | 35/20 | 81 | 140 | **0.644.250** |
| 500 | 35/20 | 105 | 170 | **0.644.500** |
| 1000 | 35/20 | 126 | 210 | **0.644.001** |
| 2000 | 35/20 | 166 | 260 | **0.644.002** |
| 4000 | 35/20 | 207 | 310 | **0.644.004** |

**Flasks, round bottom, medium neck,** with spherical joint, **plastic-coated** borosilicate glass

***Ballons à fond rond à rodage sphérique pour évaporateur rotatif,*** *en verre borosilicaté* ***plastifié de sécurité***

| Capacity<br>*Capacité*<br>ml | S<br>*RS* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 35/20 | 64 | 110 | **0.645.100** |
| 250 | 35/20 | 81 | 140 | **0.645.250** |
| 500 | 35/20 | 105 | 170 | **0.645.500** |
| 1000 | 35/20 | 126 | 210 | **0.645.001** |
| 2000 | 35/20 | 166 | 260 | **0.645.002** |
| 4000 | 35/20 | 207 | 310 | **0.645.004** |



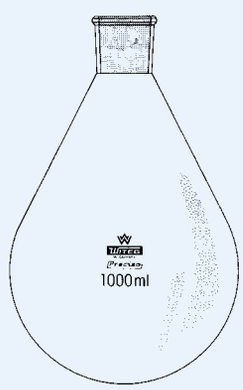

**0.645.*****

## Evaporating Flasks
## *Ballons piriformes*

**Flasks, pear shaped, centered,** uncoated, made of borosilicate glass (also for rotary evaporators)

***Ballons piriformes,*** *col à rodage conique, en verre borosilicaté (également pour évaporateur rotatif)*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteue*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 29/32 | 41 | 75 | **0.655.025** |
| 50 | 29/32 | 51 | 90 | **0.655.050** |
| 100 | 29/32 | 60 | 110 | **0.655.100** |
| 150 | 29/32 | 75 | 125 | **0.655.150** |
| 250 | 29/32 | 81 | 140 | **0.655.250** |
| 500 | 29/32 | 101 | 170 | **0.655.500** |
| 1000 | 29/32 | 126 | 210 | **0.655.001** |
| 2000 | 29/32 | 160 | 235 | **0.655.002** |




**0.655.*****
**-**
**0.655.*** K**

**Flasks, pear shaped, centered,** made of borosilicate glass plastic-coated

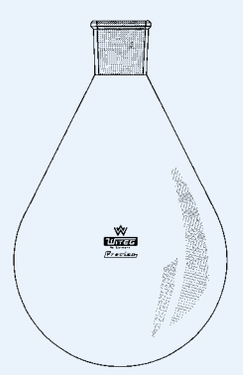
***Ballons piriformes,*** *col à rodage conique, en verre borosilicaté plastifié de sécurité*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 29/32 | 51 | 90 | **0.655.050 K** |
| 100 | 29/32 | 60 | 110 | **0.655.100 K** |
| 250 | 29/32 | 81 | 140 | **0.655.250 K** |
| 500 | 29/32 | 101 | 170 | **0.655.500 K** |
| 1000 | 29/32 | 126 | 210 | **0.655.001 K** |
| 2000 | 29/32 | 160 | 235 | **0.655.002 K** |

**Flasks, pear shaped, centered,** round bottom, PRECISO, made of borosilicate glass

***Ballons piriformes,*** *col à rodage conique, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 14/23 | **0.658.010** |
| 12 | 14/23 | **0.658.012** |
| 25 | 14/23 | **0.658.025** |
| 50 | 14/23 | **0.658.050** |
| 100 | 14/23 | **0.658.100** |

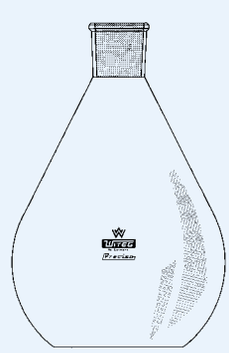


**0.658.*****

**Flasks, pear shaped, centered,** flat bottom, PRECISO, made of borosilicate glass

***Ballons piriformes, à fond plat avec col à rodage conique,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 12 | 14/23 | **0.658.112** |
| 25 | 14/23 | **0.658.125** |
| 50 | 14/23 | **0.658.150** |
| 100 | 14/23 | **0.658.200** |



**0.658.112**

**Flasks, pear shaped, centered,** flat bottom, PRECISO. made of borosilicate glass

***Ballons piriformes, à fond plat avec col à rodage conique,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 12 | 19/26 | **0.658.212** |
| 25 | 19/26 | **0.658.225** |
| 50 | 19/26 | **0.658.250** |
| 100 | 19/26 | **0.658.300** |



**0.660.*** - 0.662.*****

**Flasks, pear shaped,** made of borosilicate glass, acc. to DIN 12383

***Ballons en forme de coeur avec col à rodage conique,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 14/23 | 22 | 64 | **0.660.005** |
| 10 | 14/23 | 33 | 70 | **0.660.010** |
| 25 | 14/23 | 43 | 90 | **0.660.025** |
| 50 | 14/23 | 51 | 100 | **0.660.050** |
| 100 | 14/23 | 64 | 120 | **0.660.100** |
| 250 | 14/23 | 85 | 145 | **0.660.250** |



**0.663.*****

**Flasks, pear shaped,** made of borosilicate glass, acc. to DIN 12383

***Ballons en forme de coeur avec col à rodage conique,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 19/26 | 33 | 75 | **0.662.010** |
| 25 | 19/26 | 43 | 95 | **0.662.025** |
| 50 | 19/26 | 51 | 105 | **0.662.050** |
| 100 | 19/26 | 64 | 120 | **0.662.100** |
| 250 | 19/26 | 85 | 145 | **0.662.250** |



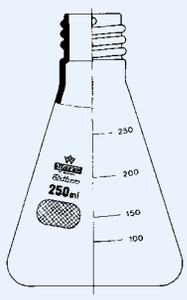

**0.664.*****

**Flasks, pear shaped, 2 necks,** side neck angled, made of borosilicate glass, acc. to DIN 12383

***Ballons en forme de coeur bicols,*** *à rodages coniques dont un incliné, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 14/23 | 43 | 90 | **0.663.025** |
| 50 | 14/23 | 51 | 100 | **0.663.050** |
| 100 | 14/23 | 64 | 120 | **0.663.100** |

**For other sizes, see also page 41 /**




**0.670.*****

**Flasks, pear shaped,** made of borosilicate glass, acc. to DIN 12383

***Ballons en forme de coeur avec col à rodage conique,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 29/32 | 59 | 110 | **0.664.050** |
| 100 | 29/32 | 64 | 125 | **0.664.100** |
| 250 | 29/32 | 85 | 150 | **0.664.250** |

**Erlenmeyer flasks,** with screw thread, made of borosilicate glass

***Fioles Erlenmeyer avec col à filetage (GL),*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 25 | 64 | 105 | **0.670.100** |
| 250 | 32 | 85 | 140 | **0.670.250** |
| 500 | 32 | 105 | 175 | **0.670.500** |
| 1000 | 32 | 131 | 220 | **0.670.001** |

**For other sizes, see also page 214**
*Pour d'autres tailles, svp vous référer à la page 214*
**For screw-caps please refer to Order No. 0.175.125 and 0.175.132**
*Pour les bouchons à visser, veuillez svp vous référer aux N° de code 0.175.125 and 0.175.132*




**0.658.*****

**Powder flasks,** with indentations on the flask wall, made of borosilicate glass

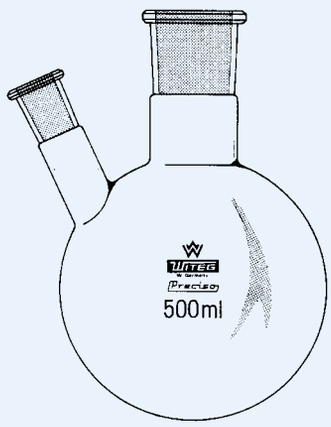
***Fioles à poudre avec col à rodage conique,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 29/32 | 60 | 110 | **0.680.100** |
| 250 | 29/32 | 81 | 140 | **0.680.250** |
| 500 | 29/32 | 101 | 170 | **0.680.500** |
| 1000 | 29/32 | 126 | 210 | **0.680.001** |
| 2000 | 29/32 | 160 | 235 | **0.680.002** |

**Round bottom flasks, 2 necks,** with side neck at an angle of 20° (7° or 15° on request), acc. to DIN 12394, made of borosilicate glass

***Ballons à fond rond bicols*** *à rodages coniques dont un incliné à 20°(sur demande à 7° ou à 15°), en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 14/23 | 14/23 | | **0.699.025** |
| 50 | 14/23 | 14/23 | | **0.699.050** |
| 100 | 14/23 | 14/23 | | **0.699.100** |
| 250 | 14/23 | 14/23 | | **0.699.250** |
| 50 | 24/29 | 14/23 | * | **0.700.050** |
| 100 | 24/29 | 14/23 | * | **0.700.100** |
| 250 | 24/29 | 14/23 | * | **0.700.250** |
| 500 | 24/29 | 14/23 | * | **0.700.500** |
| 1000 | 24/29 | 14/23 | * | **0.700.001** |
| 2000 | 24/29 | 14/23 | * | **0.700.002** |
| 250 | 24/29 | 19/26 | * | **0.701.250** |
| 500 | 24/29 | 19/26 | * | **0.701.500** |
| 1000 | 24/29 | 19/26 | * | **0.701.001** |
| 2000 | 24/29 | 19/26 | * | **0.701.002** |

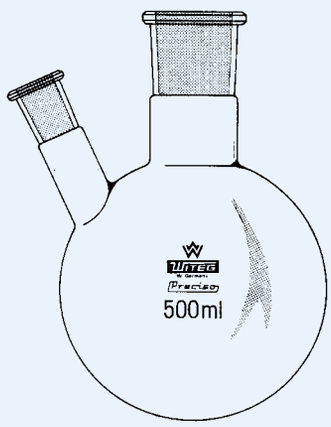



**0.699.*****
**-**
**0.701.*****

**Round bottom flasks, 2 necks,** with side neck at an angle of 20° (7° or 15° on request), acc. to DIN 12394, made of borosilicate glass

***Ballons à fond rond bicols à rodages coniques,*** *col central RIN 29/32 et tubulure latérale inclinée à 20° (sur demande à 7° ou à 15°), en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 29/32 | 14/23 | * | **0.703.050** |
| 100 | 29/32 | 14/23 | * | **0.703.100** |
| 250 | 29/32 | 14/23 | | **0.703.250** |
| 500 | 29/32 | 14/23 | | **0.703.500** |
| 1000 | 29/32 | 14/23 | | **0.703.001** |
| 2000 | 29/32 | 14/23 | | **0.703.002** |
| 250 | 29/32 | 19/26 | | **0.705.250** |
| 500 | 29/32 | 19/26 | | **0.705.500** |
| 1000 | 29/32 | 19/26 | | **0.705.001** |
| 2000 | 29/32 | 19/26 | | **0.705.002** |

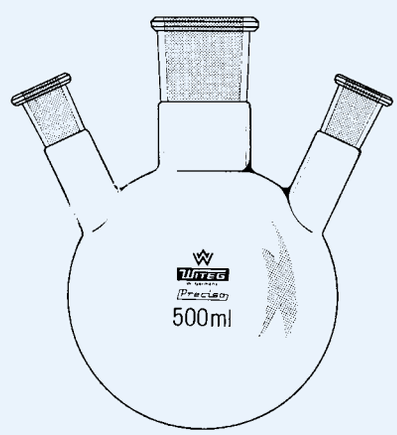



**0.703.*****
**-**
**0.705.*****

**Round bottom flasks,** with 2 side necks at an angle of 20° (7° or 15° on request), acc. to DIN 12394, made of borosilicate glass

***Ballons à fond rond tricols à rodages coniques,*** *avec deux tubulures latérales inclinées à 20° (sur demande à 7° ou à 15°), en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col. latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 14/23 | 14/23 | * | **0.725.025** |
| 50 | 14/23 | 14/23 | * | **0.725.050** |
| 100 | 14/23 | 14/23 | * | **0.725.100** |
| 100 | 24/29 | 14/23 | * | **0.730.100** |
| 250 | 24/29 | 14/23 | * | **0.730.250** |
| 500 | 24/29 | 14/23 | * | **0.730.500** |
| 1000 | 24/29 | 14/23 | * | **0.730.001** |
| 2000 | 24/29 | 14/23 | * | **0.730.002** |
| 100 | 24/29 | 19/26 | * | **0.732.100** |
| 250 | 24/29 | 19/26 | * | **0.732.250** |
| 500 | 24/29 | 19/26 | * | **0.732.500** |
| 1000 | 24/29 | 19/26 | * | **0.732.001** |
| 2000 | 24/29 | 19/26 | * | **0.732.002** |
| 4000 | 24/29 | 19/26 | * | **0.732.004** |
| 100 | 29/32 | 14/23 | | **0.736.100** |
| 250 | 29/32 | 14/23 | | **0.736.250** |
| 500 | 29/32 | 14/23 | | **0.736.500** |
| 1000 | 29/32 | 14/23 | | **0.736.001** |
| 2000 | 29/32 | 14/23 | | **0.736.002** |
| 4000 | 29/32 | 14/23 | | **0.736.004** |
| 6000 | 29/32 | 14/23 | | **0.736.006** |




**0.725.*****
**-**
**0.736.*****



**0.738.*** - 0.745.***

**Round bottom flasks,** with 2 side necks at an angle of 20° (7° or 15° on request), acc. to DIN 12394, made of borosilicate glass

***Ballons à fond rond tricols à rodages coniques,*** *col central RIN 29/32 et deux tubulures latérales inclinées à 20° (sur demande à 7° ou à 15°), en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 29/32 | 19/26 | | 0.738.100 |
| 250 | 29/32 | 19/26 | | 0.738.250 |
| 500 | 29/32 | 19/26 | | 0.738.500 |
| 1000 | 29/32 | 19/26 | | 0.738.001 |
| 2000 | 29/32 | 19/26 | | 0.738.002 |
| 4000 | 29/32 | 19/26 | | 0.738.004 |
| 100 | 29/32 | 29/32 | * | 0.740.100 |
| 250 | 29/32 | 29/32 | * | 0.740.250 |
| 500 | 29/32 | 29/32 | * | 0.740.500 |
| 1000 | 29/32 | 29/32 | * | 0.740.001 |
| 2000 | 29/32 | 29/32 | * | 0.740.002 |
| 3000 | 29/32 | 29/32 | * | 0.740.003 |
| 4000 | 29/32 | 29/32 | * | 0.740.004 |
| 6000 | 29/32 | 29/32 | * | 0.740.006 |
| 10000 | 29/32 | 29/32 | * | 0.740.010 |
| 2000 | 45/40 | 19/26 | | 0.742.002 |
| 4000 | 45/40 | 19/26 | | 0.742.004 |
| 2000 | 45/40 | 29/32 | * | 0.745.002 |
| 4000 | 45/40 | 29/32 | * | 0.745.004 |
| 6000 | 45/40 | 29/32 | * | 0.745.006 |
| 10000 | 45/40 | 29/32 | * | 0.745.010 |




**0.750.*** - 0.751.***

**Round bottom flasks,** with side neck, parallel, acc. to DIN 12394, made of borosilicate glass

***Ballons à fond rond bicols à rodages coniques,*** *col central RIN 24/29 et tubulure latérale droite, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 24/29 | 14/23 | * | 0.750.100 |
| 250 | 24/29 | 14/23 | * | 0.750.250 |
| 500 | 24/29 | 14/23 | * | 0.750.500 |
| 1000 | 24/29 | 14/23 | * | 0.750.001 |
| 2000 | 24/29 | 14/23 | * | 0.750.002 |
| 250 | 24/29 | 19/26 | * | 0.751.250 |
| 500 | 24/29 | 19/26 | * | 0.751.500 |
| 1000 | 24/29 | 19/26 | * | 0.751.001 |
| 2000 | 24/29 | 19/26 | * | 0.751.002 |




**0.752.*** - 0.754.***

**Round bottom flasks,** with side neck, parallel, acc. to DIN 12394, made of borosilicate glass

***Ballons à fond rond bicols à rodages coniques,*** *col central RIN 29/32 et tubulure latérale droite, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 29/32 | 14/23 | | 0.752.100 |
| 250 | 29/32 | 14/23 | | 0.752.250 |
| 500 | 29/32 | 14/23 | | 0.752.500 |
| 1000 | 29/32 | 14/23 | | 0.752.001 |
| 2000 | 29/32 | 14/23 | | 0.752.002 |
| 250 | 29/32 | 19/26 | | 0.753.250 |
| 500 | 29/32 | 19/26 | | 0.753.500 |
| 1000 | 29/32 | 19/26 | | 0.753.001 |
| 2000 | 29/32 | 19/26 | | 0.753.002 |
| 250 | 29/32 | 29/32 | * | 0.754.250 |
| 500 | 29/32 | 29/32 | * | 0.754.500 |
| 1000 | 29/32 | 29/32 | * | 0.754.001 |
| 2000 | 29/32 | 29/32 | * | 0.754.002 |
| 4000 | 29/32 | 29/32 | * | 0.754.004 |

**Round bottom flasks,** with 2 side necks, parallel, acc to DIN 12394, made of borosilicate glass

***Ballons à fond rond tricols à rodages coniques,*** *col central RIN 29/32 et deux tubulures latérales droites, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 29/32 | 14/23 | | **0.768.100** |
| 250 | 29/32 | 14/23 | | **0.768.250** |
| 500 | 29/32 | 14/23 | | **0.768.500** |
| 1000 | 29/32 | 14/23 | | **0.768.001** |
| 2000 | 29/32 | 14/23 | | **0.768.002** |
| 4000 | 29/32 | 14/23 | | **0.768.004** |
| 250 | 29/32 | 19/26 | | **0.770.250** |
| 500 | 29/32 | 19/26 | | **0.770.500** |
| 1000 | 29/32 | 19/26 | | **0.770.001** |
| 2000 | 29/32 | 19/26 | | **0.770.002** |
| 4000 | 29/32 | 19/26 | | **0.770.004** |
| 100 | 29/32 | 29/32 | * | **0.772.100** |
| 250 | 29/32 | 29/32 | * | **0.772.250** |
| 500 | 29/32 | 29/32 | * | **0.772.500** |
| 1000 | 29/32 | 29/32 | * | **0.772.001** |
| 2000 | 29/32 | 29/32 | * | **0.772.002** |
| 3000 | 29/32 | 29/32 | * | **0.772.003** |
| 4000 | 29/32 | 29/32 | * | **0.772.004** |
| 5000 | 29/32 | 29/32 | * | **0.772.005** |
| 6000 | 29/32 | 29/32 | * | **0.772.006** |
| 10000 | 29/32 | 29/32 | * | **0.772.010** |




**0.768.*****
**-**
**0.772.*****

**Round bottom flasks,** with 2side necks, parallel, acc. to DIN 12394, made of borosilicate glass

***Ballons à fond rond tricols à rodages coniques,*** *col central RIN 45/40 et deux tubulures latérales droites RIN 29/32, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST / RIN | Side neck<br>*Col latéral*<br>ST / RIN | not acc. to DIN<br>*ne répond pas à la norme DIN* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1000 | 45/40 | 29/32 | * | **0.775.001** |
| 2000 | 45/40 | 29/32 | * | **0.775.002** |
| 3000 | 45/40 | 29/32 | * | **0.775.003** |
| 4000 | 45/40 | 29/32 | * | **0.775.004** |
| 5000 | 45/40 | 29/32 | * | **0.775.005** |
| 6000 | 45/40 | 29/32 | * | **0.775.006** |
| 10000 | 45/40 | 29/32 | * | **0.775.010** |
| 20000 | 45/40 | 29/32 | * | **0.775.020** |

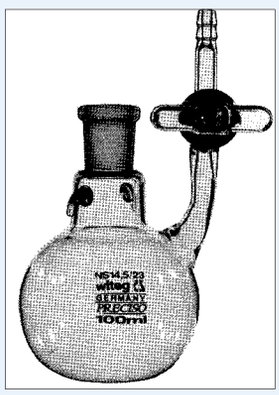


**0.775.*****

**Collecting nitrogen flasks, acc. to Schlenk,** round bottom flasks with lateral stopcock with hollow plug, bore 2.5 mm, ST 14.5 with hose nozzle 8 mm, made of borosilicate glass

***Ballon-collecteurs selon Schlenk, pour azote,*** *à fond rond et col à rodage conique femelle, avec robinet latéral à voie de 2,5 mm et olive pour tuyau de 8 mm, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 14/23 | **0.777.002** |
| 50 | 14/23 | **0.777.003** |
| 100 | 14/23 | **0.777.004** |

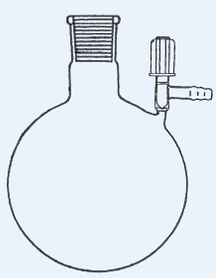



**0.777.002**

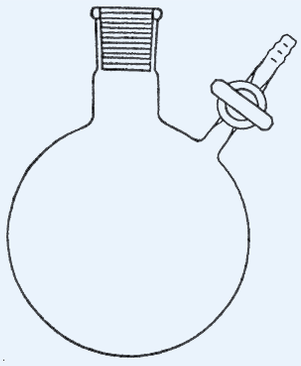
**Nitrogen flasks, acc. to Schlenk,** round bottom, with side PTFE valve and hose connection, made of borosilicate glass

***Ballons à fond rond pour azote selon Schlenk,*** *en verre borosilicaté avec robinet droit latéral à clé en PTFE et olive pour tuyau*

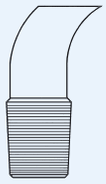
| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 14/23 | **0.777.012** |
| 50 | 14/23 | **0.777.013** |
| 100 | 14/23 | **0.777.014** |
| 250 | 14/23 | **0.777.015** |
| 500 | 14/23 | **0.777.016** |



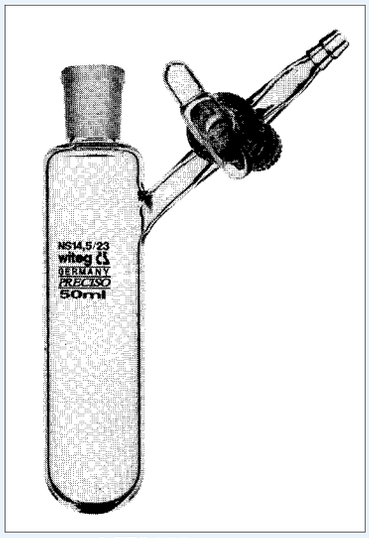
**0.777.012**



**0.777.022**



**0.777.112**




**0.778.*****



**0.778.110**



**0.778.120**



**0.778.13***

**Nitrogen flasks, acc. to Schlenk,** round bottom, with side straight stopcock and hose connection 8 mm, made of borosilicate glass

***Ballon à fond rond pour azote selon Schlenk,*** *en verre borosilicaté avec robinet oblique latéral en verre et olive pour tuyau 8 mm*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 29/32 | **0.777.022** |
| 50 | 29/32 | **0.777.023** |
| 100 | 29/32 | **0.777.024** |
| 250 | 29/32 | **0.777.025** |
| 500 | 29/32 | **0.777.026** |
| 1000 | 29/32 | **0.777.027** |

**Pourers,** for flasks and sulfonation flasks, made of borosilicate glass

***Raccords d'évacuation à rodage pour fioles et ballons de sulfonation,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 12/21 | **0.777.112** |
| 14/23 | **0.777.114** |
| 19/26 | **0.777.119** |
| 24/29 | **0.777.124** |
| 29/32 | **0.777.129** |
| 34/35 | **0.777.134** |
| 45/40 | **0.777.145** |

**Collecting Nitrogen flasks, acc. to Schlenk,** cylindrical, round bottom flasks with lateral stopcock with hollow plug, bore 2.5 mm, ST 14.5 with hose nozzle 8 mm, made of borosilicate glass

***Ballon-collecteurs pour azote, selon Schlenk,*** *forme cylindrique à fond rond et col à rodage conique femelle, avec robinet latéral à voie de 2,5 mm et olive pour tuyau de 8 mm, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 14/23 | 120 | 16 | **0.778.001** |
| 25 | 14/23 | 120 | 32 | **0.778.002** |
| 50 | 14/23 | 145 | 32 | **0.778.003** |
| 100 | 14/23 | 165 | 40 | **0.778.004** |
| 200 | 14/23 | 210 | 40 | **0.778.005** |
| 300 | 14/23 | 230 | 50 | **0.778.006** |
| 500 | 14/23 | 250 | 70 | **0.778.007** |
| 1000 | 14/23 | 300 | 80 | **0.778.008** |
| 100 | 29/32 | 165 | 40 | **0.778.101** |
| 500 | 29/32 | 250 | 70 | **0.778.102** |
| 1000 | 29/32 | 300 | 80 | **0.778.103** |
| 2000 | 29/32 | 300 | 100 | **0.778.104** |

## Vacuum Manifolds

## *Rampes sous vide*

**Vacuum Manifolds, Nitrogen distribution tubes,** made of borosilicate glass 3.3, with 5 stopcocks double bore

***Rampes sous vide,*** *à tubes de distribution d'azote, en verre borosilicaté 3.3, équipés de 5 robinets en verre à double voie*

| Order No.<br>*N° de code* |
|---|
| **0.778.110** |

**Vacuum Manifolds, Nitrogen distribution tubes,** made of borosilicate glass 3.3, with 5 two-way PTFE high vacuum valves

***Rampes sous vide,*** *à tubes de distribution d'azote, en verre borosilicaté 3.3, équipés de 5 robinets à 2 voies à pointeau en PTFE pour vide poussé*

| Order No.<br>*N° de code* |
|---|
| **0.778.120** |

**Vacuum Manifolds, vacuum distribution tubes,** made of borosilicate glass 3.3, with PTFE high vacuum valves one-way bore 0 up to 6 mm, with tubing olive 8 mm

***Rampes sous vide,*** *à tubes de distribution d'azote, en verre borosilicaté 3.3, équipés de 5 robinets à 2 voies à pointeau en PTFE pour vide poussé*

| Quantity of valves<br>*Nombres de robinets*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|
| 3 | **0.778.133** |
| 4 | **0.778.134** |
| 5 | **0.778.135** |

**Collecting flasks, acc. to Schlenk,** cylindrical, round bottom flasks with lateral stopcock **with hollow plug**, bore 2.5 mm, ST 14.5 with hose nozzle 8 mm, made of borosilicate glass

***Ballon-collecteurs selon Schlenk,*** *forme cylindrique à fond rond et col à rodage conique mâle, avec robinet latéral à voie de 2,5 mm à clé creuse et olive pour tuyau de 8 mm, en verre borosilicaté*

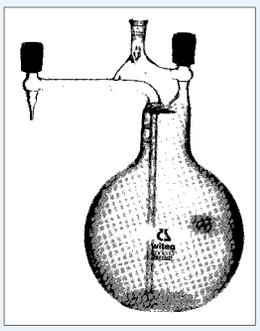
| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône male*<br>ST | Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 14/23 | 120 | 16 | **0.778.201** |
| 25 | 14/23 | 120 | 32 | **0.778.202** |
| 50 | 14/23 | 145 | 32 | **0.778.203** |
| 100 | 14/23 | 165 | 40 | **0.778.204** |
| 200 | 14/23 | 210 | 40 | **0.778.205** |
| 300 | 14/23 | 230 | 50 | **0.778.206** |
| 500 | 14/23 | 250 | 70 | **0.778.207** |
| 1000 | 14/23 | 300 | 80 | **0.778.208** |
| 100 | 29/32 | 165 | 40 | **0.778.301** |
| 500 | 29/32 | 250 | 70 | **0.778.302** |
| 1000 | 29/32 | 300 | 80 | **0.778.303** |
| 2000 | 29/32 | 300 | 100 | **0.778.304** |



**0.778.*****

**Special models:**
- with hooks, (please add „H“ behind the Order No.)
- with stopcock, three way, hollow plug ST 18.8 mm, bore 4 mm, (please add „S“ behind the Order No.)
- with valve stopcock, with PTFE-needle valve as lateral connection (please add „V“ behind the Order No.)

***Versions spéciales:***
*- avec crochets, (veuillez rajouter la lettre "H" derrière le No. de code )*
*- avec robinet à 3-voies de 4 mm, (veuillez rajouter la lettre "S" derrière le No. de code)*
*- avec robinet à pointeau en PTFE, (veuillez rajouter la lettre "V" derrière le No. de Code)*

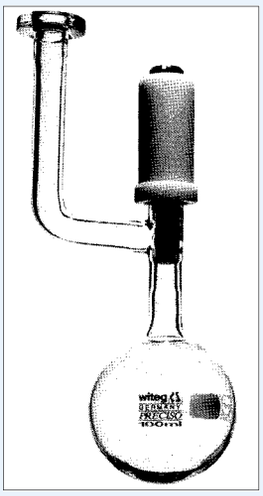


**0.779.*****

**Solvent-collecting flasks, acc. to Dr. Storch,** flat bottom flasks with 2 high vacuum valve stopcocks, with plastic coating, with hooks, capacity 2000 ml

***Ballon-collecteurs de solvent selon Dr. Storch,*** *à fond rond en verre plastifié de sécurité, avec deux robinets pour vide poussé et deux crochets. Capacité 2000 ml*

| | Order No.<br>*N° de code* |
|---|---|
| - with socket ST 14/23 / *avec cône femelle RIN 14/23* | **0.779.002** |
| - with HV-flat flange NW 15 / *avec rodage plan DN 15* | **0.779.012** |



**0.779.1****

**HV-collecting flasks, acc. to Dr. Storch,** with high vacuum valve stopcocks 8 mm, capacity 100 ml, made of borosilicate glass

***Ballon-collecteurs selon Dr. Storch,*** *à fond rond en verre borosilicaté, avec un robinet pour vide poussé de 8 mm et une tubulure parallèle à rodage conique ou plan . Capacité 100 ml*

| | Order No.<br>*N° de code* |
|---|---|
| - with socket ST 14/23 (with hooks) / *avec cône femelle RIN 14/23 (avec crochets)* | **0.779.100** |
| - with HV-flat flange NW 15 / *avec rodage plan DN 15* | **0.779.115** |

**Flasks pear shaped, 2 necks,** with side neck angled, made of borosilicate glass, acc. to DIN 12383

***Ballons bicols en forme de coeur,*** *à rodages normalisés, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side neck<br>*Col latéral*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 19/26 | 14/23 | **0.780.025** |
| 50 | 19/26 | 14/23 | **0.780.050** |
| 100 | 19/26 | 14/23 | **0.780.100** |
| 250 | 19/26 | 14/23 | **0.780.250** |

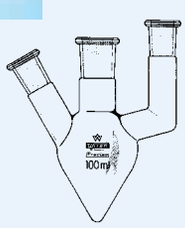


**0.780.*****

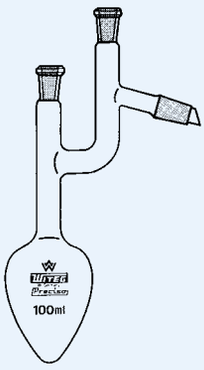
**Flasks pear shaped, 3 necks,** with side necks angled, made of borosilicate glass, acc. to DIN 12383

***Ballons tricols en forme de coeur,*** *à rodages normalisés, en verre borosilicaté*

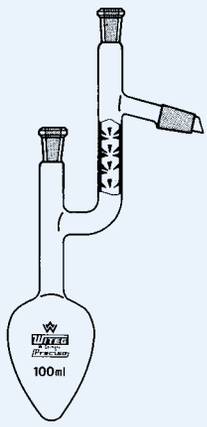
| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side necks<br>*Col latéraux*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 19/26 | 14/23 | **0.782.025** |
| 50 | 19/26 | 14/23 | **0.782.050** |
| 100 | 19/26 | 14/23 | **0.782.100** |
| 250 | 19/26 | 14/23 | **0.782.250** |



**0.782.*****




**0.783.*****




**0.786.*****

**Flasks pear shaped, Claisen,** with side neck angled, made of borosilicate glass, acc. to DIN 12383

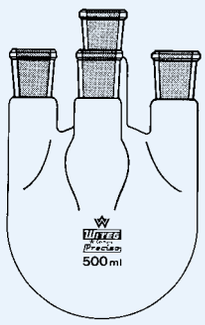
***Ballons de Claisen,*** *en forme de coeur, verre borosilicaté, avec raccord latéral à RN 14/23*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side neck<br>*Col latéral*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 14/23 | 14/23 | **0.783.025** |
| 50 | 14/23 | 14/23 | **0.783.050** |
| 100 | 14/23 | 14/23 | **0.783.100** |
| 250 | 14/23 | 14/23 | **0.783.250** |

**Flasks pear shaped, Claisen-Vigreux,** with side neck angled, made of borosilicate glass, acc. to DIN 12383

***Ballons de Claisen-Vigreux,*** *en forme de coeur, verre borosilicaté, avec raccord latéral à RN 14/23*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side neck<br>*Col latéral*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 14/23 | 14/23 | **0.786.025** |
| 50 | 14/23 | 14/23 | **0.786.050** |
| 100 | 14/23 | 14/23 | **0.786.100** |
| 250 | 14/23 | 14/23 | **0.786.250** |

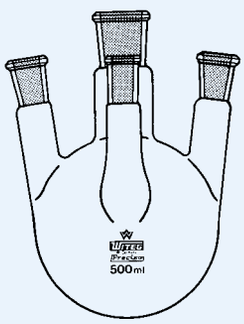



**0.812.*****

**Flasks, 4 necks, with 3 necks parallel,** made of borosilicate glass, acc. to DIN 12293

***Ballons ronds à 4 cols,*** *avec 3 tubulures parallèles droites, à rodages normalisés, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side necks<br>*Cols latéraux*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 29/32 | 29/32 | **0.812.500** |
| 1000 | 29/32 | 29/32 | **0.812.001** |
| 2000 | 29/32 | 29/32 | **0.812.002** |
| 4000 | 29/32 | 29/32 | **0.812.004** |
| 2000 | 45/40 | 29/32 | **0.814.002** |
| 4000 | 45/40 | 29/32 | **0.814.004** |
| 6000 | 45/40 | 29/32 | **0.814.006** |
| 10000 | 45/40 | 29/32 | **0.814.010** |

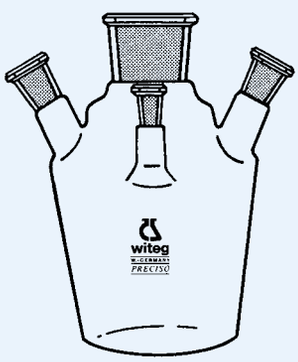



**0.822.*****

**Flasks, 4 necks, with 3 angled necks,** made of borosilicate glass, acc. to DIN 12392

***Ballons ronds à 4 cols,*** *avec 3 tubulures inclinées, rodages normalisés, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side necks<br>*Cols latéraux*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 250 | 29/32 | 19/26 | **0.822.250** |
| 500 | 29/32 | 19/26 | **0.822.500** |
| 1000 | 29/32 | 19/26 | **0.822.001** |
| 1000 | 29/32 | 29/32 | **0.824.001** |
| 2000 | 29/32 | 29/32 | **0.824.002** |
| 2000 | 45/40 | 29/32 | **0.826.002** |
| 4000 | 45/40 | 29/32 | **0.826.004** |
| 6000 | 45/40 | 29/32 | **0.826.006** |




**0.850.*****

**Sulfonation flasks, with 4 side necks** (2 wall-parallel necks and 2 angled necks) and one center neck, made of borosilicate glass

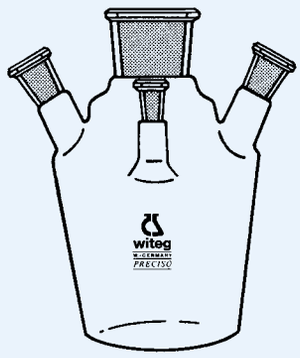
***Ballons de sulfonation à 5 cols,*** *avec 2 tubulures droites parallèles, 2 tubulures inclinées et un col central, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side necks<br>*Cols latéraux*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 29/32 | 14/23 | **0.850.101** |
| 200 | 29/32 | 14/23 | **0.850.020** |
| 350 | 29/32 | 14/23 | **0.850.024** |
| 100 | 29/32 | 19/26 | **0.850.031** |
| 200 | 29/32 | 19/26 | **0.850.032** |
| 350 | 29/32 | 19/26 | **0.850.033** |
| 350 | 45/40 | 29/32 | **0.850.035** |
| 500 | 45/40 | 29/32 | **0.850.050** |
| 750 | 45/40 | 29/32 | **0.850.074** |
| 1500 | 45/40 | 29/32 | **0.850.150** |
| 1500 | 71/51 | 29/32 | **0.850.151** |
| 2500 | 45/40 | 29/32 | **0.850.250** |
| 2500 | 71/51 | 29/32 | **0.850.251** |
| 4500 | 71/51 | 29/32 | **0.850.400** |
| 6000 | 71/51 | 29/32 | **0.850.600** |
| 10000 | 71/51 | 29/32 | **0.850.900** |

**Sulfonation flasks, with 3 side necks (2 angle necks and one wall-parallel neck) and one center neck,** made of borosilicate glass, arrangement of necks on customers request

***Ballons de sulfonation à 3 tubulures latérales*** *(2 inclinées et une parallèle) et un col central (emplacements à votre choix), en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Center neck<br>*Col central*<br>ST | Side necks<br>*Cols latéraux*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 29/32 | 14/23 | **0.851.101** |
| 200 | 29/32 | 14/23 | **0.851.020** |
| 350 | 29/32 | 14/23 | **0.851.024** |
| 350 | 45/40 | 29/32 | **0.851.035** |
| 500 | 45/40 | 29/32 | **0.851.050** |
| 750 | 45/40 | 29/32 | **0.851.074** |
| 1500 | 45/40 | 29/32 | **0.851.150** |
| 1500 | 71/51 | 29/32 | **0.851.151** |
| 2500 | 45/40 | 29/32 | **0.851.250** |
| 2500 | 71/51 | 29/32 | **0.851.251** |
| 4500 | 71/51 | 29/32 | **0.851.400** |
| 6000 | 71/51 | 29/32 | **0.851.600** |
| 10000 | 71/51 | 29/32 | **0.851.900** |



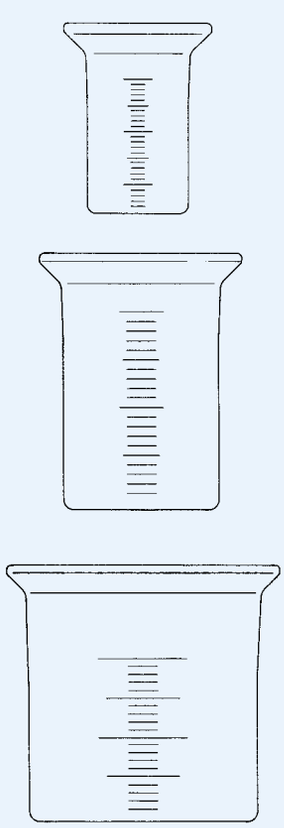

**0.851.*****

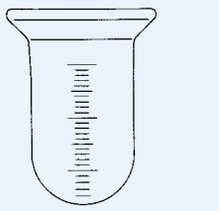
## Reaction vessels
## *Corps de réacteur*

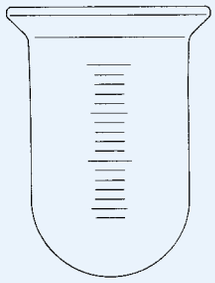
**Reaction vessels with graduation,** flat bottom, flat flange, flange with groove, cylindrical, made of borosilicate glass

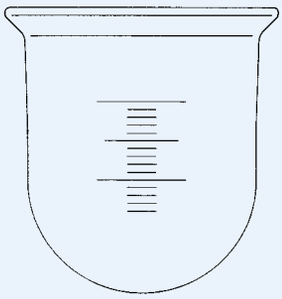
***Corps de réacteurs gradués,*** *fond plat, forme cylindrique, à joint rodé plan, en verre borosilicaté*

| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 60 | 50 | 65 | 60 | **0.860.044** |
| 60 | 100 | 65 | 80 | **0.860.050** |
| 60 | 250 | 65 | 130 | **0.860.057** |
| 60 | 500 | 65 | 220 | **0.860.063** |
| 60 | 750 | 85 | 190 | **0.860.066** |
| 60 | 1000 | 85 | 240 | **0.860.069** |
| 100 | 250 | 105 | 85 | **0.860.257** |
| 100 | 500 | 105 | 125 | **0.860.263** |
| 100 | 1000 | 105 | 195 | **0.860.269** |
| 100 | 2000 | 115 | 270 | **0.860.271** |
| 100 | 3000 | 130 | 300 | **0.860.275** |
| 100 | 4000 | 140 | 340 | **0.860.277** |
| 120 | 2000 | 120 | 255 | **0.860.471** |
| 120 | 3000 | 160 | 235 | **0.860.475** |
| 120 | 4000 | 160 | 295 | **0.860.477** |
| 120 | 5000 | 170 | 295 | **0.860.479** |
| 120 | 6000 | 180 | 335 | **0.860.481** |
| 150 | 2000 | 160 | 185 | **0.860.671** |
| 150 | 3000 | 160 | 245 | **0.860.675** |
| 150 | 4000 | 160 | 300 | **0.860.677** |
| 150 | 5000 | 160 | 355 | **0.860.679** |
| 150 | 6000 | 180 | 335 | **0.860.681** |
| 150 | 10000 | 225 | 380 | **0.860.685** |
| 150 | 20000 | 270 | 465 | **0.860.687** |
| 200 | 6000 | 215 | 285 | **0.860.881** |
| 200 | 10000 | 215 | 435 | **0.860.885** |
| 200 | 20000 | 270 | 465 | **0.860.887** |
| 200 | 30000 | 315 | 540 | **0.860.888** |
| 200 | 40000 | 315 | 670 | **0.860.889** |
| 200 | 50000 | 315 | 810 | **0.860.890** |





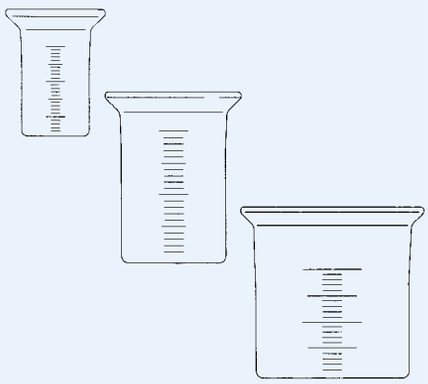




**Reaction vessels with graduation,** round bottom, flat flange, flange with groove, cylindrical, made of borosilicate glass

***Corps de réacteurs gradués,*** *fond rond, forme cylindrique, à joint rodé plan, en verre borosilicaté*

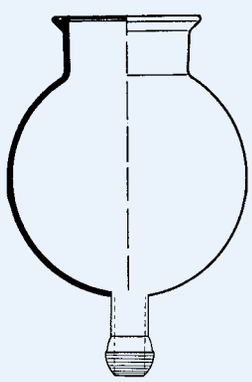
| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 60 | 50 | 65 | 75 | **0.861.044** |
| 60 | 100 | 65 | 85 | **0.861.050** |
| 60 | 250 | 65 | 160 | **0.861.057** |
| 60 | 500 | 65 | 230 | **0.861.063** |
| 60 | 750 | 85 | 205 | **0.861.066** |
| 60 | 1000 | 85 | 260 | **0.861.069** |
| 100 | 250 | 105 | 110 | **0.861.257** |
| 100 | 500 | 105 | 140 | **0.861.263** |
| 100 | 1000 | 105 | 210 | **0.861.269** |
| 100 | 2000 | 115 | 280 | **0.861.271** |
| 100 | 3000 | 130 | 320 | **0.861.275** |
| 100 | 4000 | 140 | 355 | **0.861.277** |
| 120 | 2000 | 120 | 270 | **0.861.471** |
| 120 | 3000 | 160 | 260 | **0.861.475** |
| 120 | 4000 | 160 | 320 | **0.861.477** |
| 120 | 5000 | 170 | 320 | **0.861.479** |
| 120 | 6000 | 180 | 360 | **0.861.481** |
| 150 | 2000 | 160 | 210 | **0.861.671** |
| 150 | 3000 | 160 | 270 | **0.861.675** |
| 150 | 4000 | 160 | 325 | **0.861.677** |
| 150 | 5000 | 160 | 430 | **0.861.679** |
| 150 | 6000 | 180 | 360 | **0.861.681** |
| 150 | 10000 | 225 | 435 | **0.861.685** |
| 150 | 20000 | 270 | 510 | **0.861.687** |
| 200 | 6000 | 215 | 320 | **0.861.881** |
| 200 | 10000 | 215 | 460 | **0.861.885** |
| 200 | 20000 | 270 | 520 | **0.861.887** |
| 200 | 30000 | 315 | 600 | **0.861.888** |
| 200 | 40000 | 315 | 720 | **0.861.889** |
| 200 | 50000 | 315 | 860 | **0.861.890** |



**Reaction vessels with graduation,** flat bottom, flat flange, flange with groove, cylindrical, made of borosilicate glass

***Corps de réacteurs gradués,*** *fond plat, forme cylindrique, à joint rodé plan, en verre borosilicaté*

| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 60 | 100 | 100 | 85 | **0.900.100** |
| 60 | 250 | 100 | 125 | **0.900.250** |
| 100 | 500 | 138 | 120 | **0.915.500** |
| 100 | 1000 | 138 | 205 | **0.915.001** |
| 100 | 2000 | 138 | 270 | **0.915.002** |
| 150 | 4000 | 184 | 290 | **0.915.004** |
| 150 | 6000 | 184 | 320 | **0.920.006** |
| 150 | 10000 | 184 | 410 | **0.920.010** |



**Reaction vessels, flat flange, f**lange with groove, round bottom with outlet spherical S40/25, made of borosilicate glass

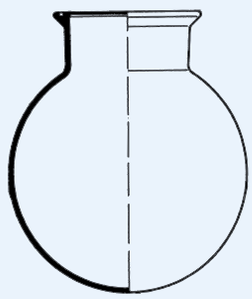
***Corps de réacteurs,*** *forme sphérique avec sortie de fond à rodage sphérique S40/25, à joint rodé plan à rainure, en verre borosilicaté*

| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 1000 | 138 | 205 | **0.916.001** |
| 100 | 2000 | 138 | 270 | **0.916.002** |
| 150 | 4000 | 184 | 290 | **0.916.004** |
| 150 | 6000 | 184 | 320 | **0.921.006** |
| 150 | 10000 | 184 | 410 | **0.921.010** |
| 200 | 5000 | 215 | 230 | **0.923.005** |
| 200 | 6000 | 215 | 260 | **0.923.006** |
| 200 | 10000 | 215 | 390 | **0.923.010** |
| 200 | 15000 | 215 | 550 | **0.923.015** |
| 200 | 20000 | 215 | 700 | **0.923.020** |

**Reaction vessels, flat flange, f**lange with groove, round bottom, made of borosilicate glass

***Corps de réacteurs,*** *forme sphérique, à joint rodé plan à rainure, en verre borosilicaté*

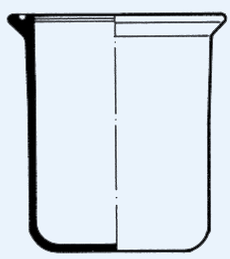
| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 60 | 250 | 85 | 120 | **0.924.057** |
| 60 | 500 | 105 | 145 | **0.924.063** |
| 60 | 1000 | 131 | 175 | **0.924.069** |
| 100 | 1000 | 131 | 185 | **0.925.001** |
| 100 | 2000 | 165 | 215 | **0.925.002** |
| 100 | 4000 | 206 | 265 | **0.925.004** |
| 100 | 6000 | 236 | 295 | **0.925.006** |
| 100 | 10000 | 280 | 350 | **0.925.010** |
| 100 | 20000 | 350 | 410 | **0.925.020** |
| 120 | 4000 | 206 | 255 | **0.925.474** |
| 120 | 6000 | 236 | 285 | **0.925.481** |
| 120 | 10000 | 280 | 330 | **0.925.485** |
| 150 | 6000 | 236 | 285 | **0.925.681** |
| 150 | 10000 | 280 | 335 | **0.925.685** |
| 150 | 20000 | 350 | 410 | **0.925.687** |
| 200 | 6000 | 236 | 285 | **0.925.881** |
| 200 | 10000 | 280 | 370 | **0.925.885** |
| 200 | 20000 | 350 | 420 | **0.925.887** |
| 100 | 2000 | 138 | 215 | **0.926.002** |
| 100 | 4000 | 138 | 265 | **0.926.004** |
| 100 | 6000 | 138 | 295 | **0.926.006** |
| 100 | 10000 | 138 | 340 | **0.926.010** |
| 100 | 20000 | 138 | 410 | **0.926.020** |



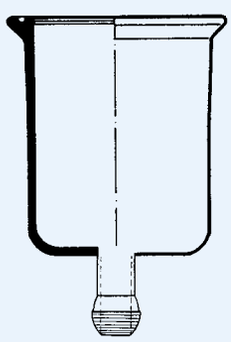
**Flat flange beaker,** made of borosilicate glass

***Bécher à reaction*** *à joint rodé plan, en verre borosilicaté*

| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 120 | 1000 | 158 | 125 | **0.930.001** |
| 120 | 2000 | 158 | 200 | **0.930.002** |
| 120 | 3000 | 158 | 290 | **0.930.003** |
| 150 | 1000 | 184 | 120 | **0.935.001** |
| 150 | 2000 | 184 | 200 | **0.935.002** |
| 150 | 3000 | 184 | 265 | **0.935.003** |
| **With bottom outlet, sphere S 40/25 /** *Avec sortie de fond à rodage sphérique S 40/25* | | | | |
| 150 | 1000 | 184 | 120 | **0.936.001** |
| 150 | 2000 | 184 | 200 | **0.936.002** |
| 150 | 3000 | 184 | 265 | **0.936.003** |



**0.930.*****

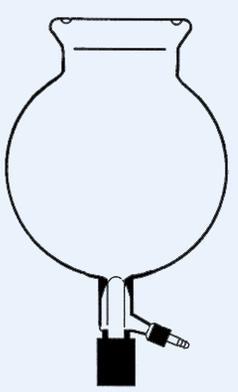


**0.936.001**

**Reaction vessel,** flat flange, flange with groove, round bottom, ungraduated, with drawal valve, made of borosilicate glass

***Corps de réacteurs non-gradués,*** *à fond rond, à joint rodé plan à rainure, avec vanne de vidange, en verre borosilicaté*

| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Valve<br>*Vanne* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 60 | 250 | 85 | 190 | 6 | **0.937.057** |
| 60 | 500 | 105 | 215 | 6 | **0.937.063** |
| 60 | 1000 | 131 | 245 | 6 | **0.937.069** |
| 100 | 2000 | 165 | 295 | 10 | **0.937.271** |
| 100 | 4000 | 206 | 345 | 10 | **0.937.277** |
| 100 | 6000 | 236 | 370 | 10 | **0.937.281** |
| 100 | 10000 | 280 | 460 | 15 | **0.937.285** |
| 100 | 20000 | 350 | 550 | 25 | **0.937.287** |
| 120 | 4000 | 206 | 340 | 10 | **0.937.477** |
| 120 | 6000 | 236 | 370 | 10 | **0.937.481** |
| 120 | 10000 | 280 | 460 | 15 | **0.937.485** |
| 150 | 6000 | 236 | 370 | 10 | **0.937.681** |
| 150 | 10000 | 280 | 465 | 15 | **0.937.685** |
| 150 | 20000 | 350 | 560 | 25 | **0.937.687** |
| 200 | 6000 | 236 | 325 | 10 | **0.937.881** |
| 200 | 10000 | 280 | 435 | 15 | **0.937.885** |
| 200 | 20000 | 350 | 535 | 25 | **0.937.887** |

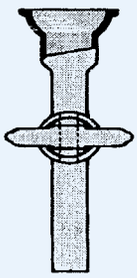




**Reaction vessel, flat flange,** flange with groove, cylindrical, with graduation, with with drawal valve, round bottom, made of borosilicate glass

***Corps de réacteurs gradués,*** *forme cylindrique à fond rond, à joint rodé plan à rainure, avec vanne de fond, en verre borosilicaté*

| DN<br>*Ø Nominal* | Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Valve<br>*Vanne* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 60 | 50 | 65 | 145 | 6 | **0.936.044** |
| 60 | 100 | 65 | 155 | 6 | **0.936.050** |
| 60 | 250 | 65 | 195 | 6 | **0.936.057** |
| 60 | 500 | 65 | 270 | 6 | **0.936.063** |
| 60 | 750 | 85 | 240 | 6 | **0.936.066** |
| 60 | 1000 | 85 | 280 | 6 | **0.936.069** |
| 100 | 250 | 105 | 190 | 10 | **0.936.257** |
| 100 | 500 | 105 | 210 | 10 | **0.936.263** |
| 100 | 1000 | 105 | 280 | 10 | **0.936.269** |
| 100 | 2000 | 115 | 355 | 10 | **0.936.271** |
| 100 | 3000 | 130 | 385 | 10 | **0.936.275** |
| 100 | 4000 | 140 | 425 | 10 | **0.936.277** |
| 120 | 2000 | 120 | 355 | 10 | **0.936.471** |
| 120 | 3000 | 160 | 345 | 10 | **0.936.475** |
| 120 | 4000 | 160 | 405 | 10 | **0.936.477** |
| 120 | 5000 | 175 | 455 | 10 | **0.936.479** |
| 120 | 6000 | 180 | 445 | 10 | **0.936.481** |
| 150 | 2000 | 160 | 295 | 10 | **0.936.671** |
| 150 | 3000 | 160 | 355 | 10 | **0.936.675** |
| 150 | 4000 | 160 | 410 | 10 | **0.936.677** |
| 150 | 5000 | 160 | 515 | 10 | **0.936.679** |
| 150 | 6000 | 180 | 445 | 10 | **0.936.681** |
| 150 | 10000 | 225 | 580 | 15 | **0.936.685** |
| 150 | 20000 | 270 | 655 | 25 | **0.936.687** |
| 200 | 6000 | 215 | 385 | 10 | **0.936.881** |
| 200 | 10000 | 215 | 600 | 15 | **0.936.885** |
| 200 | 20000 | 270 | 660 | 25 | **0.936.887** |

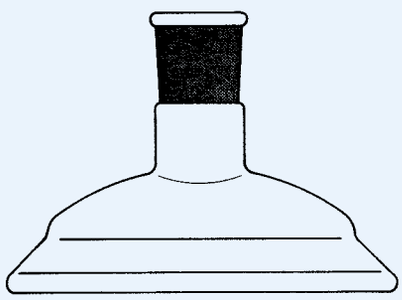


**0.939.*****

**Stopcocks for bottom outlet,** for reaction vessel with bottom outlet, S 40/25 socket joint, made of borosilicate glass

***Robinets de décharge pour corps de réacteur à évacuation,*** *S 40/45, en verre borosilicaté*

| DN<br>*Ø Nominal* | S | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 18.8/6 | **0.939.010** |
| 150 | 29/10 | **0.939.015** |
| 200 | 29/10 | **0.939.020** |



**Lids, flat flange,** with center neck, for reaction vessels, made of borosilicate glass

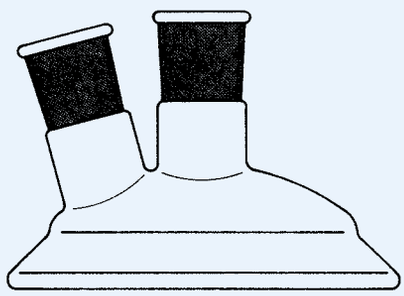
***Couvercles à joint rodé plan,*** *avec tubulure centrale pour corps de réacteurs, en verre borosilicaté*

| Center neck<br>*Tubulure centrale* | Flange<br>DN 60 | Flange<br>DN 100 | Flange<br>DN 120 | Flange<br>DN 150 | Flange<br>DN 200 |
|---|---|---|---|---|---|
| 14/23 | **0.940.014** | **0.940.314** | - | - | - |
| 19/26 | **0.940.019** | **0.940.319** | - | - | - |
| 24/29 | **0.940.024** | **0.940.324** | - | - | - |
| 29/32 | **0.940.001** | **0.950.001** | **0.955.001** | **0.960.001** | **0.940.929** |
| 45/40 | - | **0.940.345** | **0.940.445** | **0.940.545** | **0.940.645** |
| GL 14 | **0.940.051** | **0.940.351** | - | - | - |
| GL 18 | **0.940.052** | **0.940.352** | - | - | - |
| GL 25 | **0.940.053** | **0.940.353** | **0.940.453** | **0.940.553** | **0.940.653** |
| GL 32 | - | **0.940.354** | **0.940.454** | **0.940.554** | **0.940.654** |
| GL 45 | - | - | - | **0.940.555** | **0.940.655** |
| KF 15 | **0.940.080** | **0.940.380** | - | **0.940.580** | - |
| KF 25 | - | **0.940.381** | **0.940.481** | **0.940.581** | **0.940.981** |
| KF 40 | - | - | - | **0.940.582** | **0.940.682** |
| KF 50 | - | - | - | **0.940.583** | **0.940.683** |

**Lids, flat flange,** with center neck, 1 angled neck 15 ° (KF 45 °) , for reaction vessels, made of borosilicate glass

***Couvercles à joint rodé plan,*** *avec tubulure centrale et une tubulure latérale oblique de 15° (SF 45°) pour corps de réacteurs, en verre borosilicaté*

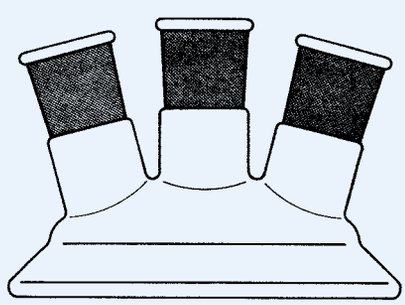
| Center neck<br>*Tubulure centrale* | Side neck angled<br>*Tubulure latérale oblique* | Flange | Flange | Flange | Flange | Flange |
|---|---|---|---|---|---|---|
| | | DN 60 | DN 100 | DN 120 | DN 150 | DN 200 |
| 14/23 | 14/23 | **0.941.014** | **0.941.314** | - | - | - |
| 19/26 | 14/23 | **0.941.019** | **0.941.319** | - | - | - |
| 24/29 | 19/26 | **0.941.024** | **0.941.324** | - | - | - |
| 29/32 | 14/23 | **0.941.029** | **0.941.320** | - | - | - |
| 29/32 | 29/32 | - | **0.941.329** | **0.941.429** | **0.941.529** | **0.941.629** |
| 45/40 | 29/32 | - | **0.941.345** | **0.941.445** | **0.941.545** | **0.941.645** |
| GL 14 | GL 14 | **0.941.051** | **0.941.351** | - | - | - |
| GL 18 | GL 14 | **0.941.052** | **0.941.352** | - | - | - |
| GL 25 | GL 18 | **0.941.053** | **0.941.353** | **0.941.453** | **0.941.553** | **0.941.653** |
| GL 32 | GL 18 | - | **0.941.354** | **0.941.454** | **0.941.554** | **0.941.654** |
| GL 18 | GL 18 | **0.941.062** | **0.941.362** | - | **0.941.555** | **0.941.655** |
| KF 15 | KF 15 | **0.941.080** | **0.941.380** | - | - | - |
| KF 25 | KF 15 | - | **0.941.381** | **0.941.481** | **0.941.581** | - |
| KF 25 | KF 15 | - | **0.941.391** | **0.941.491** | **0.941.591** | **0.941.691** |
| KF 40 | KF 25 | - | - | - | **0.941.592** | **0.941.692** |
| KF 50 | KF 25 | - | - | - | **0.941.593** | **0.941.693** |

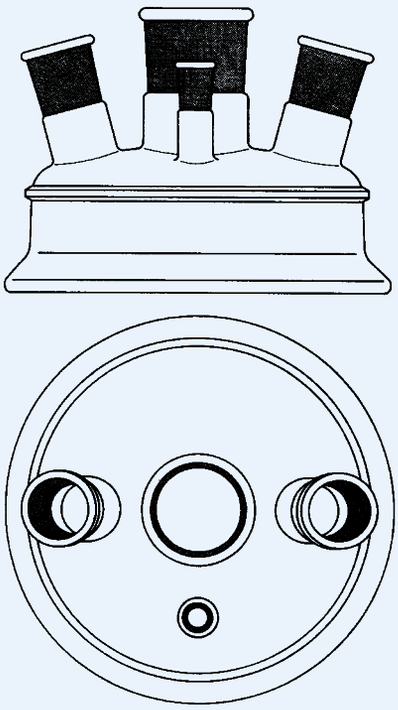


**Lids, flat flange,** with center neck, 2 angled necks 15 ° (KF 45 °) , for reaction vessels, made of borosilicate glass

***Couvercles à joint rodé plan,*** *avec tubulure centrale et deux tubulures latérales obliques de 15° (SF 45°) pour corps de réacteurs, en verre borosilicaté*

| Center neck<br>*Tubulure centrale* | Side neck angled<br>*Tubulure latérale oblique* | Flange | Flange | Flange | Flange | Flange |
|---|---|---|---|---|---|---|
| | | DN 60 | DN 100 | DN 120 | DN 150 | DN 200 |
| 14/23 | 14/23 | **0.942.014** | **0.942.314** | - | - | - |
| 19/26 | 14/23 | **0.942.019** | **0.942.319** | - | - | - |
| 24/29 | 19/26 | **0.942.024** | **0.942.324** | - | - | - |
| 29/32 | 14/23 | **0.942.029** | **0.942.320** | - | - | - |
| 29/32 | 29/32 | - | **0.942.329** | **0.942.429** | **0.942.529** | **0.942.629** |
| 45/40 | 29/32 | - | **0.942.345** | **0.942.445** | **0.942.545** | **0.942.645** |
| GL 18 | GL 18 | - | **0.942.362** | - | **0.942.552** | **0.942.655** |
| KF 15 | KF 15 | **0.942.080** | - | - | - | - |
| KF 25 | KF 15 | - | **0.942.381** | **0.942.481** | **0.942.581** | - |
| KF 25 | KF 15 | - | **0.942.391** | **0.942.491** | **0.942.591** | **0.942.691** |
| KF 40 | KF 25 | - | - | - | **0.942.592** | **0.942.692** |
| KF 50 | KF 25 | - | - | - | **0.942.593** | **0.942.693** |

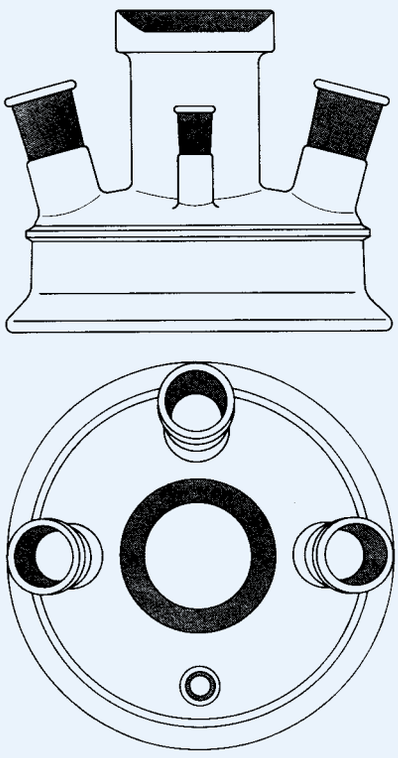




**Lids, flat flange,** with center neck, 2 angled necks 15 °, 1 straight parallel side neck (KF 45°), for reaction vessels, made of borosilicate glass

***Couvercles à joint rodé plan,*** *avec Avec tubulure centrale, deux tubulures latérales obliques de 15° et une tubulure droite parallèle (SF45°) pour corps de réacteurs, en verre borosilicaté*

| Center neck<br>*Tubulure centrale* | Side necks 2 x angled<br>*2 Tubulures latérales obliques* | Side neck straight/ parallel<br>*1 tubulure droite* | Flange<br>DN 60 | Flange<br>DN 100 | Flange<br>DN 120 | Flange<br>DN 150 | Flange<br>DN 200 |
|---|---|---|---|---|---|---|---|
| 14/23 | 14/23 | 14/23 | **0.943.014** | **0.943.314** | - | - | - |
| 19/26 | 14/23 | 14/23 | **0.943.019** | **0.943.319** | - | - | - |
| 24/29 | 19/26 | 14/23 | **0.943.024** | **0.943.324** | - | - | - |
| 29/32 | 14/23 | 14/23 | **0.943.029** | **0.943.320** | - | - | - |
| 29/32 | 29/32 | 14/23 | - | **0.943.329** | **0.943.429** | **0.943.529** | **0.943.629** |
| 45/40 | 29/32 | 14/23 | - | **0.943.345** | **0.943.445** | **0.943.545** | **0.943.645** |
| GL 14 | GL 14 | GL 14 | **0.943.051** | **0.943.351** | - | - | - |
| GL 18 | GL 14 | GL 14 | **0.943.052** | **0.943.352** | - | - | - |
| GL 25 | GL 18 | GL 14 | **0.943.053** | **0.943.353** | **0.943.453** | **0.943.553** | **0.943.653** |
| GL 32 | GL 18 | GL 14 | - | **0.943.354** | **0.943.454** | **0.943.554** | **0.943.654** |
| GL 45 | GL 18 | GL 14 | - | - | - | **0.943.555** | **0.943.655** |
| GL 18 | GL 18 | GL 14 | **0.943.062** | **0.943.362** | - | - | - |
| KF 15 | KF 15 | KF 15 | - | - | **0.943.481** | **0.943.581** | - |
| KF 25 | KF 15 | KF 15 | - | - | - | **0.943.582** | **0.943.682** |
| KF 25 | KF 15 | KF 15 | - | - | - | **0.943.583** | **0.943.683** |
| KF 40 | KF 25 | KF 15 | - | - | - | **0.943.584** | **0.943.684** |
| KF 50 | KF 25 | KF 15 | - | - | **0.943.491** | **0.943.591** | **0.943.691** |



**Lids, flat flange,** with center neck, 3 angled necks 15 °, 1 straight parallel side neck (KF 45°), for reaction vessels, made of borosilicate glass

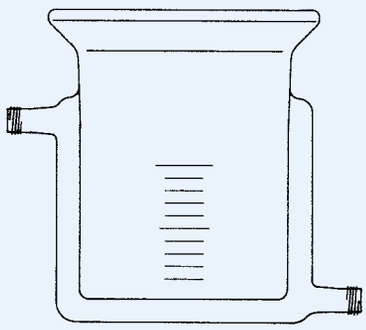
***Couvercles à joint rodé plan,*** *avec tubulure centrale, trois tubulures latérales obliques de 15° et une tubulure droite parallèle (SF45°) pour corps de réacteurs, en verre borosilicaté*

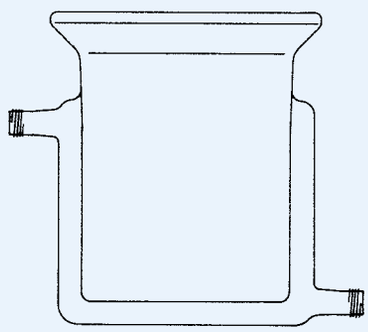
| Center neck<br>*Tubulure centrale* | Side necks 3 x angled<br>*3 Tubulures latérales obliques* | Side neck straight/ parallel<br>*1 tubulure droite* | Flange<br>DN 60 | Flange<br>DN 100 | Flange<br>DN 120 | Flange<br>DN 150 | Flange<br>DN 200 |
|---|---|---|---|---|---|---|---|
| 14/23 | 14/23 | 14/23 | - | **0.944.314** | - | - | - |
| 19/26 | 14/23 | 14/23 | - | **0.944.319** | - | - | - |
| 24/29 | 19/26 | 14/23 | - | **0.944.324** | **0.944.424** | - | - |
| 29/32 | 14/23 | 14/23 | **0.944.020** | **0.944.320** | - | - | - |
| 29/32 | 29/32 | 14/23 | - | **0.944.329** | **0.944.429** | **0.944.529** | **0.944.629** |
| 45/40 | 29/32 | 14/23 | - | **0.944.345** | **0.944.445** | **0.944.545** | **0.944.645** |
| GL 14 | GL 14 | GL 14 | - | **0.944.351** | - | - | - |
| GL 18 | GL 14 | GL 14 | - | **0.944.352** | - | - | - |
| GL 25 | GL 18 | GL 14 | - | **0.944.353** | **0.944.453** | **0.944.553** | **0.944.653** |
| GL 32 | GL 18 | GL 14 | - | **0.944.354** | **0.944.454** | **0.944.554** | **0.944.654** |
| GL 18 | GL 18 | GL 14 | - | **0.944.362** | - | - | **0.944.355** |
| KF 15 | KF 15 | KF 15 | - | - | **0.944.481** | **0.944.581** | - |
| KF 25 | KF 15 | KF 15 | - | - | - | **0.944.582** | **0.944.682** |
| KF 25 | KF 15 | KF 15 | - | - | - | **0.944.583** | **0.944.683** |
| KF 40 | KF 25 | KF 15 | - | - | - | **0.944.584** | **0.944.684** |
| KF 50 | KF 25 | KF 15 | - | - | **0.944.491** | **0.944.591** | **0.944.691** |
| 29/32 | 2 x 19/26<br>1 x 14/23 | - | **0.940.002** | - | - | - | - |
| 45/40 | 29/32 | 29/32 | - | **0.950.004** | - | - | - |
| 29/32 | 29/32 | - | - | - | - | **0.960.002** | - |
| 29/32 | - | 3 x 29/32 | - | - | - | **0.960.003** | - |
| 45/40 | 29/32 | - | - | - | - | **0.960.005** | - |
| 45/40 | 29/32 | 29/32 | - | - | - | - | **0.962.002** |
| 29/32 | 29/32 | 29/32 | - | - | - | - | **0.962.003** |

**Reaction vessels,** flat flange with groove, thermostatic, with 2 screw threads GL 18, flat bottom, made of borosilicate glass
**ATTENTION! – Optional water inlet KF 15xxxxxKF**

***Corps de réacteurs thermostatiques,*** *fond plat, à joint rodé plan à rainure, avec 2 raccords à vis GL18, en verre borosilicaté*
***Attention! – En option avec entrée d'eau à KF 15xxxxxKF***

| DN | Capacity *Capacité* ml | Outer Ø *Ø ext.* mm | Inner Ø *Ø int.* mm | Height *Hauteur* mm | Ungraduated *Non-gradué* | Graduated *Gradué* |
|---|---|---|---|---|---|---|
| 60 | 100 | 85 | 60 | 110 | **0.991.100** | **0.991.051** |
| 60 | 250 | 85 | 60 | 165 | **0.991.250** | **0.991.057** |
| 60 | 500 | 85 | 60 | 255 | **0.991.500** | **0.991.063** |
| 60 | 750 | 105 | 80 | 220 | **0.991.001** | **0.991.066** |
| 60 | 1000 | 105 | 80 | 275 | **0.991.002** | **0.991.069** |
| 100 | 250 | 130 | 100 | 110 | **0.992.250** | **0.992.257** |
| 100 | 500 | 130 | 100 | 140 | **0.992.500** | **0.992.263** |
| 100 | 1000 | 130 | 100 | 210 | **0.992.001** | **0.992.269** |
| 100 | 2000 | 140 | 110 | 290 | **0.992.002** | **0.992.271** |
| 100 | 3000 | 160 | 125 | 330 | **0.992.003** | **0.992.275** |
| 100 | 4000 | 170 | 135 | 340 | **0.992.004** | **0.992.277** |
| 120 | 2000 | 150 | 120 | 275 | **0.992.571** | **0.992.471** |
| 120 | 3000 | 190 | 150 | 260 | **0.992.575** | **0.992.475** |
| 120 | 4000 | 190 | 150 | 320 | **0.992.577** | **0.992.477** |
| 120 | 5000 | 200 | 160 | 340 | **0.992.579** | **0.992.479** |
| 120 | 6000 | 215 | 170 | 350 | **0.992.581** | **0.992.481** |
| 150 | 1000 | 190 | 150 | 185 | **0.993.001** | **0.993.669** |
| 150 | 2000 | 190 | 150 | 210 | **0.993.002** | **0.993.671** |
| 150 | 3000 | 190 | 150 | 270 | **0.993.003** | **0.993.675** |
| 150 | 4000 | 190 | 150 | 330 | **0.993.004** | **0.993.677** |
| 150 | 5000 | 190 | 150 | 380 | **0.993.005** | **0.993.679** |
| 150 | 6000 | 200 | 160 | 405 | **0.993.006** | **0.993.681** |
| 150 | 10000 | 250 | 200 | 415 | **0.993.010** | **0.993.685** |
| 150 | 20000 | 300 | 260 | 560 | **0.993.020** | **0.993.687** |
| 200 | 6000 | 200 | 200 | 320 | **0.994.881** | **0.994.981** |
| 200 | 10000 | 250 | 200 | 450 | **0.994.885** | **0.994.985** |
| 200 | 20000 | 300 | 260 | 510 | **0.994.887** | **0.994.987** |

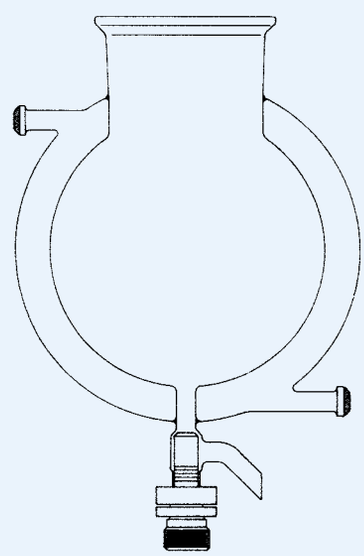


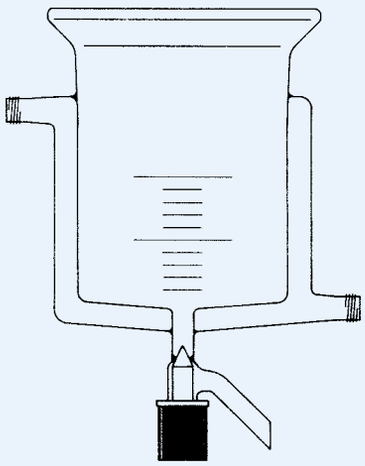


**Thermostatic-reaction vessel, spherical,** with groove, ungraduated, made of borosilicate glass

***Corps de réacteurs thermostatiques, forme sphérique, non-gradués,*** *à joint rodé plan à rainure, en verre borosilicaté*

| DN | Capacity *Capacité* ml | Water inlet *Entrée d'eau* | Outer Ø *Ø ext.* mm | Inner Ø *Ø int.* mm | Height *Hauteur* mm | Order No. *N° de code* |
|---|---|---|---|---|---|---|
| 60 | 250 | GL 14 | 105 | 85 | 145 | **0.995.057** |
| 60 | 500 | GL 14 | 131 | 105 | 175 | **0.995.063** |
| 60 | 1000 | GL 14 | 165 | 131 | 210 | **0.995.069** |
| 60 | 250 | KF 15 | 105 | 85 | 145 | **0.995.157** |
| 60 | 500 | KF 15 | 131 | 105 | 175 | **0.995.163** |
| 60 | 1000 | KF 15 | 165 | 131 | 210 | **0.995.169** |
| 100 | 2000 | GL 18 | 206 | 165 | 260 | **0.995.271** |
| 100 | 4000 | GL 18 | 236 | 206 | 285 | **0.995.277** |
| 100 | 6000 | GL 18 | 280 | 236 | 330 | **0.995.281** |
| 100 | 2000 | KF 15 | 206 | 165 | 260 | **0.995.371** |
| 100 | 4000 | KF 15 | 236 | 206 | 285 | **0.995.377** |
| 100 | 6000 | KF 15 | 280 | 236 | 330 | **0.995.381** |
| 120 | 2000 | GL 18 | 206 | 165 | 260 | **0.995.471** |
| 120 | 4000 | GL 18 | 236 | 206 | 285 | **0.995.477** |
| 120 | 6000 | GL 18 | 280 | 236 | 330 | **0.995.481** |
| 120 | 2000 | KF 15 | 206 | 165 | 260 | **0.995.571** |
| 120 | 4000 | KF 15 | 236 | 206 | 285 | **0.995.577** |
| 120 | 6000 | KF 15 | 280 | 236 | 330 | **0.995.581** |
| 150 | 6000 | GL 18 | 280 | 236 | 335 | **0.995.681** |
| 150 | 6000 | KF 15 | 280 | 236 | 335 | **0.995.781** |
| 150 | 10000 | KF 15 | 350 | 275 | 410 | **0.995.785** |
| 200 | 6000 | KF 15 | 280 | 236 | 320 | **0.995.981** |
| 200 | 10000 | KF 15 | 350 | 275 | 400 | **0.995.985** |

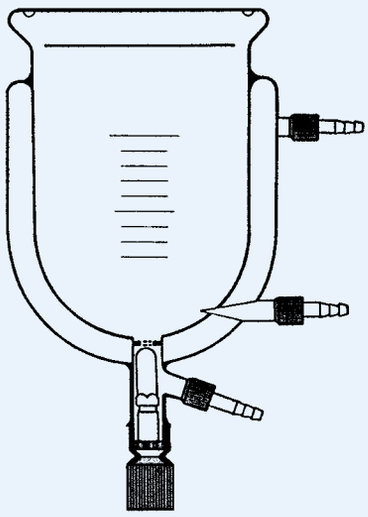




**Thermostatic - Reaction vessel,** flat flange with groove, with drawal valve, graduated, cylindrical, with round bottom, made of borosilicate glass

***Corps de réacteurs thermostatiques gradués,*** *forme cylindrique à fond rond et joint rodé plan à rainure, avec vanne de vidange, en verre borosilicaté*

| DN | Capacity<br>*Capacité*<br>ml | Water inlet<br>*Entrée d'eau* | Valve<br>*Vanne*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|---|
| 60 | 100 | GL 14 | 6 | 85 | 60 | 180 | **0.996.051** |
| 60 | 250 | GL 14 | 6 | 85 | 60 | 235 | **0.996.057** |
| 60 | 500 | GL 14 | 6 | 85 | 60 | 330 | **0.996.063** |
| 60 | 750 | GL 14 | 6 | 105 | 80 | 300 | **0.996.066** |
| 60 | 1000 | GL 14 | 6 | 105 | 80 | 350 | **0.996.069** |
| 60 | 100 | KF 15 | 6 | 85 | 60 | 180 | **0.996.151** |
| 60 | 250 | KF 15 | 6 | 85 | 60 | 235 | **0.996.157** |
| 60 | 500 | KF 15 | 6 | 85 | 60 | 330 | **0.996.163** |
| 60 | 750 | KF 15 | 6 | 105 | 80 | 300 | **0.996.166** |
| 60 | 1000 | KF 15 | 6 | 105 | 80 | 350 | **0.996.169** |
| 100 | 250 | GL 18 | 10 | 130 | 100 | 200 | **0.996.257** |
| 100 | 500 | GL 18 | 10 | 130 | 100 | 230 | **0.996.263** |
| 100 | 1000 | GL 18 | 10 | 130 | 100 | 300 | **0.996.269** |
| 100 | 2000 | GL 18 | 10 | 140 | 110 | 380 | **0.996.271** |
| 100 | 3000 | GL 18 | 10 | 160 | 125 | 420 | **0.996.275** |
| 100 | 4000 | GL 18 | 10 | 170 | 135 | 460 | **0.996.277** |
| 100 | 250 | KF 15 | 10 | 130 | 100 | 200 | **0.996.357** |
| 100 | 500 | KF 15 | 10 | 130 | 100 | 230 | **0.996.363** |
| 100 | 1000 | KF 15 | 10 | 130 | 100 | 300 | **0.996.369** |
| 100 | 2000 | KF 15 | 10 | 140 | 110 | 380 | **0.996.371** |
| 100 | 3000 | KF 15 | 10 | 160 | 125 | 420 | **0.996.375** |
| 100 | 4000 | KF 15 | 10 | 170 | 135 | 460 | **0.996.377** |
| 120 | 4000 | GL 18 | 10 | 190 | 150 | 410 | **0.996.477** |
| 120 | 5000 | GL 18 | 10 | 200 | 160 | 430 | **0.996.479** |
| 120 | 6000 | GL 18 | 10 | 215 | 170 | 440 | **0.996.481** |
| 120 | 4000 | KF 15 | 10 | 190 | 150 | 410 | **0.996.577** |
| 120 | 5000 | KF 15 | 10 | 200 | 160 | 430 | **0.996.579** |
| 120 | 6000 | KF 15 | 10 | 215 | 170 | 440 | **0.996.581** |
| 150 | 2000 | GL 18 | 10 | 190 | 150 | 290 | **0.996.671** |
| 150 | 4000 | GL 18 | 10 | 190 | 150 | 350 | **0.996.675** |
| 150 | 3000 | GL 18 | 10 | 190 | 150 | 410 | **0.996.677** |
| 150 | 5000 | GL 18 | 10 | 190 | 150 | 460 | **0.996.679** |
| 150 | 6000 | GL 18 | 10 | 200 | 160 | 490 | **0.996.681** |
| 150 | 10000 | GL 18 | 10 | 250 | 200 | 600 | **0.996.685** |



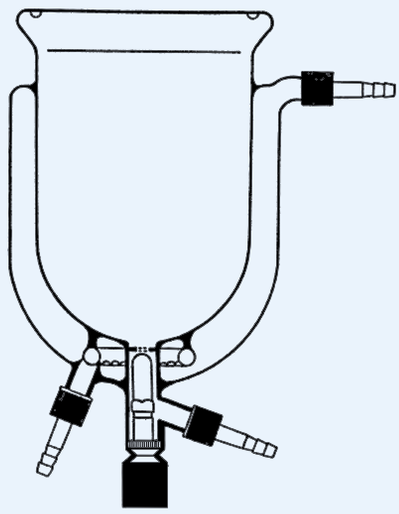
**Thermostatic - Reaction vessel,** flat flange with groove, with drawal valve, graduated, cylindrical, with round bottom, made of borosilicate glass

***Corps de réacteurs thermostatiques gradués,*** *forme cylindrique à fond rond et joint rodé plan à rainure, avec vanne de vidange, en verre borosilicaté*

| DN | Capacity<br>*Capacité*<br>ml | Water inlet<br>*Entrée d'eau* | Valve<br>*Vanne*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|---|
| 150 | 2000 | KF 15 | 10 | 190 | 150 | 290 | **0.996.771** |
| 150 | 4000 | KF 15 | 10 | 190 | 150 | 350 | **0.996.775** |
| 150 | 3000 | KF 15 | 10 | 190 | 150 | 410 | **0.996.777** |
| 150 | 5000 | KF 15 | 10 | 190 | 150 | 460 | **0.996.779** |
| 150 | 6000 | KF 15 | 10 | 200 | 160 | 490 | **0.996.781** |
| 150 | 10000 | KF 15 | 10 | 250 | 200 | 600 | **0.996.785** |
| 150 | 20000 | KF 15 | 10 | 300 | 240 | 730 | **0.996.787** |
| 200 | 6000 | KF 15 | 10 | 250 | 200 | 410 | **0.996.981** |
| 200 | 10000 | KF 15 | 10 | 250 | 200 | 630 | **0.996.985** |
| 200 | 20000 | KF 15 | 10 | 300 | 240 | 680 | **0.996.987** |

**Thermostatic-Reaction vessel graduated,** flat flange with groove, with drawal valve, cylindrical, with round bottom, with distribution ring for stabilizing media, made of borosilicate glass

***Corps de réacteurs thermostatiques gradués,*** *forme cylindrique à fond rond et joint rodé plan à rainure, avec vanne de vidange et anneau de distribution pour la stabilisation de la température du milieu, en verre borosilicaté*



| DN | Capacity<br>*Capacité*<br>ml | Water inlet<br>*Entrée d'eau* | Valve<br>*Vanne*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|---|
| 60 | 100 | GL 14 | 6 | 85 | 60 | 180 | **0.996.051 R** |
| 60 | 250 | GL 14 | 6 | 85 | 60 | 235 | **0.996.057 R** |
| 60 | 100 | KF 15 | 6 | 85 | 60 | 180 | **0.996.151 R** |
| 60 | 250 | KF 15 | 6 | 85 | 60 | 235 | **0.996.157 R** |
| 100 | 500 | GL 18 | 10 | 130 | 100 | 230 | **0.996.263 R** |
| 100 | 1000 | GL 18 | 10 | 130 | 100 | 300 | **0.996.269 R** |
| 100 | 2000 | GL 18 | 10 | 140 | 110 | 380 | **0.996.271 R** |
| 100 | 3000 | GL 18 | 10 | 160 | 125 | 420 | **0.996.275 R** |
| 100 | 4000 | GL 18 | 10 | 170 | 135 | 460 | **0.996.277 R** |
| 100 | 500 | KF 15 | 10 | 130 | 100 | 230 | **0.996.363 R** |
| 100 | 1000 | KF 15 | 10 | 130 | 100 | 300 | **0.996.369 R** |
| 100 | 2000 | KF 15 | 10 | 140 | 110 | 380 | **0.996.371 R** |
| 100 | 3000 | KF 15 | 10 | 160 | 125 | 420 | **0.996.375 R** |
| 100 | 4000 | KF 15 | 10 | 170 | 135 | 460 | **0.996.377 R** |
| 120 | 1000 | GL 18 | 10 | 150 | 120 | 280 | **0.996.469 R** |
| 120 | 2000 | GL 18 | 10 | 150 | 120 | 350 | **0.996.471 R** |
| 120 | 1000 | KF 15 | 10 | 150 | 120 | 280 | **0.996.569 R** |
| 120 | 2000 | KF 15 | 10 | 150 | 120 | 350 | **0.996.571 R** |
| 150 | 2000 | GL 18 | 10 | 190 | 150 | 290 | **0.996.671 R** |
| 150 | 4000 | GL 18 | 10 | 190 | 150 | 350 | **0.996.675 R** |
| 150 | 3000 | GL 18 | 10 | 190 | 150 | 410 | **0.996.677 R** |
| 150 | 5000 | GL 18 | 10 | 190 | 150 | 460 | **0.996.679 R** |
| 150 | 6000 | GL 18 | 10 | 200 | 160 | 490 | **0.996.681 R** |
| 150 | 2000 | KF 15 | 10 | 190 | 150 | 290 | **0.996.771 R** |
| 150 | 4000 | KF 15 | 10 | 190 | 150 | 350 | **0.996.775 R** |
| 150 | 3000 | KF 15 | 10 | 190 | 150 | 410 | **0.996.777 R** |
| 150 | 5000 | KF 15 | 10 | 190 | 150 | 460 | **0.996.779 R** |
| 150 | 6000 | KF 15 | 10 | 200 | 160 | 490 | **0.996.781 R** |
| 200 | 10000 | GL 18 | 10 | 250 | 200 | 630 | **0.996.885 R** |
| 200 | 20000 | GL 18 | 10 | 300 | 240 | 680 | **0.996.887 R** |
| 200 | 10000 | KF 15 | 10 | 250 | 200 | 630 | **0.996.985 R** |
| 200 | 20000 | KF 15 | 10 | 300 | 240 | 680 | **0.996.987 R** |

**O-rings,** made of Silicone

***Anneaux d'étanchéité*** *pour les corps de réacteur, en silicone*



**0.997.00***

| DN<br>*Ø Nominal* | Order No.<br>*N° de code* |
|---|---|
| 60 | **0.997.001** |
| 120 | **0.997.002** |
| 100 | **0.997.003** |
| 150 | **0.997.004** |
| 200 | **0.997.005** |

**O-rings,** made of Silicone, PTFE-coated

***Anneaux d'étanchéité*** *pour les corps de réacteur, en silicone avec revêtement en téflon*



**0.997.1****

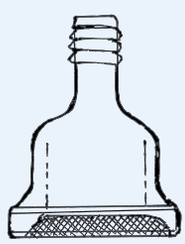
| DN<br>*Ø Nominal* | Order No.<br>*N° de code* |
|---|---|
| 60 | **0.997.101** |
| 120 | **0.997.102** |
| 100 | **0.997.103** |
| 150 | **0.997.104** |
| 200 | **0.997.105** |

**S-adapter for thermostatic reaction vessel,** with cooling jacket, S-socket or KF-socket, made of borosilicate glass

***Raccord sphérique pour les corps de réacteur,*** *à manteau thermostatique de refroidissement de la version S ou KF, en verre borosilicaté*



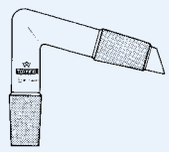
**0.998.129**



**0.998.215**

| KS/KF<br>*Rodage Sphérique* | Hose connection<br>*Raccord pour tube*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| KS 29/15 | 12 | **0.998.129** |
| KF 15 | 12 | **0.998.215** |

## Bends
## *Allonges*

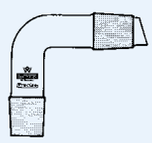


**1.000.*****

**Bends, 75°,** made of borosilicate glass

***Allonges à dégagement coudées à 75° et à deux rodages coniques mâles,*** *en verre borosilicaté*

| Flask-cone<br>*Cône au ballon*<br>ST | Condenser-cone<br>*Cône au réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.000.001** |
| 19/26 | 14/23 | **1.000.002** |
| 19/26 | 19/26 | **1.000.003** |
| 24/29 | 19/26 | **1.000.004** |
| 24/29 | 24/29 | **1.000.005** |
| 29/32 | 19/26 | **1.000.006** |
| 29/32 | 29/32 | **1.000.007** |

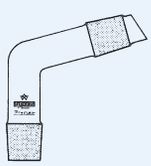


**1.004.*****

**Bends, 90°,** made of borosilicate glass

***Allonges à dégagement coudées à 90° et à deux rodages coniques mâles,*** *en verre borosilicaté*

| Flask-cone<br>*Cône au ballon*<br>ST | Condenser-cone<br>*Cône au réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.004.001** |
| 24/29 | 24/29 | **1.004.005** |
| 29/32 | 29/32 | **1.004.007** |



**1.008.*****

**Bends, 105°,** made of borosilicate glass

***Allonges à dégagement coudées à 105° et à deux rodages coniques mâles,*** *en verre borosilicaté*

| Flask-cone<br>*Cône au ballon*<br>ST | Condenser-cone<br>*Cône au réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.008.001** |
| 29/32 | 29/32 | **1.008.007** |



**1.009.*****

**Distilling bends,** cone and socket ST 29/32, made of borosilicate glass

***Allonges de distillation coudées à un rodage mâle et à un rodage femelle RIN 29/32,*** *en verre borosilicaté*

| Angle<br>*Angle de* | Order No.<br>*N° de code* |
|---|---|
| 75° | **1.009.075** |
| 90° | **1.009.090** |
| 105° | **1.009.105** |

## Recovery heads
## *Raccords de distillation*



**1.010.*****

**Recovery heads,** sloping, with thermometer socket ST 14/23, made of borosilicate glass

***Raccords de distillation à 3 rodages coniques normalisés RIN,*** *dont un pour thermomètre RIN 14/23, en verre borosilicaté*

| Flask-cone<br>*Cône au ballon*<br>ST | Condenser-cone<br>*Cône au réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.010.001** |
| 19/26 | 14/23 | **1.010.002** |
| 19/26 | 19/26 | **1.010.003** |
| 24/29 | 19/26 | **1.010.004** |
| 24/29 | 24/29 | **1.010.005** |
| 29/32 | 19/26 | **1.010.006** |
| 29/32 | 29/32 | **1.010.007** |

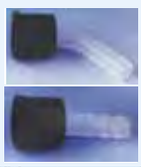
**Recovery heads,** acc. to Claisen, with 2 sockets ST 14/23, made of borosilicate glass

***Raccords de distillation selon Claisen à 4 rodages coniques normalisés RIN,*** *dont 2 à RIN femelle 14/23, en verre borosilicaté*

| Flask-cone<br>*Cône au ballon*<br>ST | Condenser-cone<br>*Cône au réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.020.001** |
| 19/26 | 14/23 | **1.020.002** |
| 19/26 | 19/26 | **1.020.003** |
| 24/29 | 19/26 | **1.020.004** |
| 24/29 | 24/29 | **1.020.005** |
| 29/32 | 19/26 | **1.020.006** |
| 29/32 | 29/32 | **1.020.007** |



**1.020.*****



**With water connection**
**2 x GL 14 x.xxx.xxx S**
*(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)*

## Distilling links
## *Ponts de distillation*

**Distilling links, with Liebig condenser,** with thermometer socket ST 14/23, made of borosilicate glass,
or with water connection 2 x GL 14

***Ponts de distillation à réfrigérant de Liebig*** *et raccord à RIN femelle 14/23 pour thermomètre, en verre borosilicaté,*
*ou avec raccords à olive à vis 2 x GL 14*

| Flask-cone<br>*Cône au ballon*<br>ST | Adapter-cone<br>*Cône d'adaptation*<br>ST | Jacket-length<br>*Longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 14/23 | 14/23 | 160 | **1.100.160** | **1.100.160 S** |
| 19/26 | 19/26 | 250 | **1.102.250** | **1.102.250 S** |
| 24/29 | 24/29 | 400 | **1.104.400** | **1.104.400 S** |
| 29/32 | 29/32 | 250 | **1.106.250** | **1.106.250 S** |
| 29/32 | 29/32 | 400 | **1.106.400** | **1.106.400 S** |

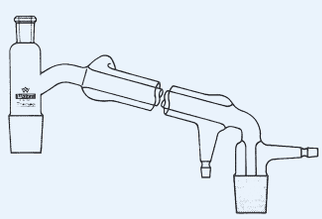


**1.100.*****
**-**
**1.106.*****

**Distilling links, with Liebig condenser,** with thermometer socket ST 14/23, with cone and vacuum connection in the vertical outlet tube, made of borosilicate glass,
or with water connection 2 x GL 14

***Ponts de distillation à réfrigérant de Liebig*** *avec raccord à RIN femelle 14/23 pour thermomètre et tubulures pour tuyau à vide, en verre borosilicaté, ou avec raccords à olive à vis 2 x GL 14*

| Flask-cone<br>*Cône au ballon*<br>ST | Adapter-cone<br>*Cône d'adaptation*<br>ST | Jacket-length<br>*Longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 14/23 | 14/23 | 160 | **1.110.160** | **1.110.160 S** |
| 19/26 | 19/26 | 250 | **1.112.250** | **1.112.250 S** |
| 24/29 | 24/29 | 2500 | **1.114.250** | **1.114.250 S** |
| 24/29 | 24/29 | 400 | **1.114.400** | **1.114.400 S** |
| 29/32 | 29/32 | 250 | **1.116.250** | **1.116.250 S** |
| 29/32 | 29/32 | 400 | **1.116.400** | **1.116.400 S** |



**1.110.*****
**-**
**1.116.*****

**Distilling links, with Liebig condenser,** acc. to Claisen with 2 sockets ST 14/23, with cone and vacuum connection in the vertical outlet tube, made of borosilicate glass,
or with water connection 2 x GL 14

***Ponts de distillation avec réfrigérant de Liebig selon Claisen*** *à 2 rodages femelles 14/23 et tubulures pour tuyau à vide, en verre borosilicaté, ou avec raccords à olive à vis 2 x GL 14*

| Flask-cone<br>*Cône au ballon*<br>ST | Adapter-cone<br>*Cône d'adaptation*<br>ST | Jacket-length<br>*Longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 14/23 | 14/23 | 160 | **1.120.160** | **1.120.160 S** |
| 19/26 | 19/26 | 250 | **1.122.250** | **1.122.250 S** |
| 24/29 | 24/29 | 2500 | **1.124.250** | **1.124.250 S** |
| 24/29 | 24/29 | 400 | **1.124.400** | **1.124.400 S** |
| 29/32 | 29/32 | 250 | **1.126.250** | **1.126.250 S** |
| 29/32 | 29/32 | 400 | **1.126.400** | **1.126.400 S** |



**1.120.*****
**-**
**1.126.*****



1.200.***

**Distilling links,** made of borosilicate glass

***Ponts de distillation standards,*** *coudés à 2 rodages mâles, en verre borosilicaté*

| Cones<br>*Cône mâle*<br>ST | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 150 | **1.200.150** |
| 19/26 | 200 | **1.200.200** |
| 24/29 | 300 | **1.200.300** |
| 29/32 | 300 | **1.200.301** |
| 29/32 | 350 | **1.200.350** |



1.205.***

**Distilling links,** with vertical splash head, made of borosilicate glass

***Ponts de distillation avec ampoule de garde,*** *coudés à 2 rodages mâles, en verre borosilicaté*

| Cones<br>*Cône mâle*<br>ST | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 150 | **1.205.150** |
| 19/26 | 200 | **1.205.200** |
| 24/29 | 300 | **1.205.300** |
| 29/32 | 300 | **1.205.301** |

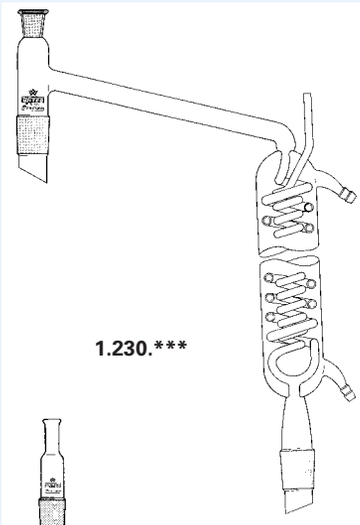


1.210.***

**Distilling links,** with socket ST 14/23, made of borosilicate glass

***Ponts de distillation coudés*** *à 2 rodages mâles et un rodage femelle 14/23 pour thermomètre, en verre borosilicaté*

| Cones<br>*Cône mâle*<br>ST | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 150 | **1.210.150** |
| 19/26 | 200 | **1.210.200** |
| 24/29 | 300 | **1.210.300** |
| 29/32 | 300 | **1.210.301** |



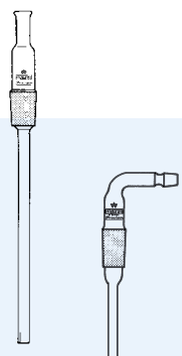
1.230.***

**Distilling links,** for inflammable solvents, with thermometer socket ST 14/23, made of borosilicate glass

***Raccords de distillation pour solvents inflammables,*** *à RN femelle 14/23 pour thermomètre, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Jacket length<br>*Longueur du manteau*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 24/29 | 250 | **1.230.024** |
| 29/32 | 250 | **1.230.029** |

## Tubes
## *Tubes*



1.250.***

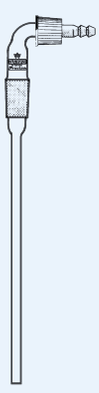
**Air leak tubes,** built-in length 200 mm, made of borosilicate glass

***Tubes à air,*** *de longueur 200 mm avec rodage mâle, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.250.014** |
| 19/26 | **1.250.019** |
| 24/29 | **1.250.024** |
| 29/32 | **1.250.029** |
| **with capillary tube /** *Avec tube capillaire* | |
| 14/23 | **1.250.114** |



1.251.0**



1.251.0** S

**Inlet tubes at 90°,** with hose connector, built-in length 250 mm, made of borosilicate glass, or with water connection GL 14

***Tubes d'introduction à olive,*** *coudé à 90°, longueur 250 mm avec rodage mâle, en verre borosilicaté. Disponible aussi avec raccord à olive à vis GL 14*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>GL 14 |
|---|---|---|
| 14/23 | **1.251.014** | **1.251.014 S** |
| 19/26 | **1.251.019** | **1.251.019 S** |
| 24/29 | **1.251.024** | **1.251.024 S** |
| 29/32 | **1.251.029** | **1.251.029 S** |

**Inlet tubes at 90°, with valve stopcock,** with serrated hose connector, built-in length 250 mm, made of borosilicate glass

***Tubes d'introduction à olive,*** *coudé à 90° avec robinet, longueur 250 mm avec rodage mâle, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.251.114** |
| 19/26 | **1.251.119** |
| 24/29 | **1.251.124** |
| 29/32 | **1.251.129** |



**1.251.*****

**Micro air leak bell,** made of borosilicate glass

***Micro-cloche à air,*** *en verre borosilicaté*

| Length<br>*Longueur*<br>mm | Ø<br>*Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 180 | 4 | **1.252.180** |



**1.252.180**

## Boiling stones
## *Pierres d'ébullition*

**Boiling stones,** in jars of 250 g

***Pierres d'ébullition,*** *en jarre de 250g*

| Order No.<br>*N° de code* |
|---|
| **1.252.182** |



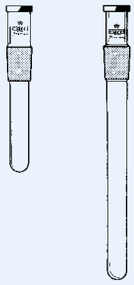
**1.252.182**

## Thermometers
## *Thermomètres*

**Thermometer pockets,** made of borosilicate glass

***Chemises à thermomètre à rodage mâle,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Built-in length<br>*Longueur d'immersion*<br>mm | For flasks<br>*Pour ballons de capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 | 110 | 250 - 500 | **1.260.110** |
| 14/23 | 160 | 1000 - 2000 | **1.260.160** |
| 19/26 | 160 | 1000 - 2000 | **1.261.160** |
| 29/32 | 235 | 4000 - 6000 | **1.263.235** |



**1.260.*****
**-**
**1.263.*****

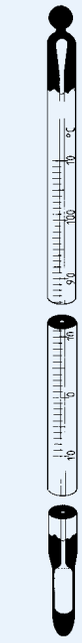
**Stirring thermometer,** solid stem, bulb reinforced, by solid glass piece, yellow enamelled, with resistant DIFFICO-graduation, Mercury filling, made of borosilicate glass

***Thermomètres d'agitation à mercure et à boule renforcée,*** *verre émaillé jaune, à graduations résistantes DIFFICO, en verre borosilicaté*

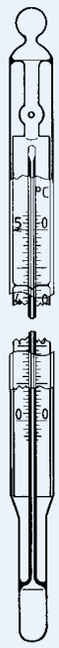
| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 35 / + 50 | 1 | 6/7 | 260 | **1.270.001** |
| - 10 / + 50 | 1 | 6/7 | 200 | **1.270.002** |
| - 10 / + 110 | 1 | 6/7 | 260 | **1.270.003** |
| - 10 / + 150 | 1 | 6/7 | 260 | **1.270.004** |
| - 10 / + 200 | 1 | 6/7 | 300 | **1.270.005** |
| - 10 / + 250 | 1 | 6/7 | 300 | **1.270.006** |
| - 10 / + 300 | 1 | 6/7 | 340 | **1.270.007** |
| - 10 / + 360 | 1 | 6/7 | 340 | **1.270.008** |
| - 10 / + 420 | 1 | 6/7 | 340 | **1.270.009** |



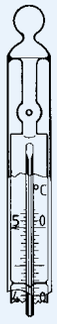
**1.270.*****

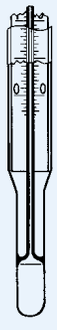


**1.270.1****



**1.271.*****





**1.271.1****
-
**1.272.*****

**Stirring thermometer,** solid stem, bulb reinforced, by solid glass piece, yellow enamelled, with resistant DIFFICO-graduation, filled with organic liquids, made of borosilicate glass

***Thermomètres d'agitation à liquide organique et à boule renforcée,*** *verre émaillé jaune, à graduations résistantes DIFFICO, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 35 / + 50 | 1 | 6/7 | 260 | **1.270.101** |
| - 10 / + 50 | 1 | 6/7 | 200 | **1.270.102** |
| - 10 / + 110 | 1 | 6/7 | 260 | **1.270.103** |
| - 10 / + 150 | 1 | 6/7 | 260 | **1.270.104** |
| - 10 / + 200 | 1 | 6/7 | 300 | **1.270.105** |

**Standard thermometers,** enclosed scale, opal glass scale, with resistant DIFFICO-graduation, Mercury filling, made of borosilicate glass

***Thermomètres à mercure standard à échelle graduée DIFFICO sur plaque opaline,*** *en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 35 / + 50 | 1 | 7/8 | 260 | **1.271.001** |
| - 10 / + 50 | 1 | 7/8 | 200 | **1.271.002** |
| - 10 / + 110 | 1 | 7/8 | 260 | **1.271.003** |
| - 10 / + 150 | 1 | 7/8 | 260 | **1.271.004** |
| - 10 / + 200 | 1 | 7/8 | 300 | **1.271.005** |
| - 10 / + 250 | 1 | 7/8 | 300 | **1.271.006** |
| - 10 / + 300 | 1 | 7/8 | 340 | **1.271.007** |
| - 10 / + 360 | 1 | 7/8 | 340 | **1.271.008** |
| - 10 / + 420 | 1 | 7/8 | 340 | **1.271.009** |

**Standard thermometers,** enclosed scale, opal glass scale, with resistant DIFFICO-graduation, filled with organic liquids, made of borosilicate glass

***Thermomètres à liquide organique standard à échelle graduée DIFFICO sur plaque opaline,*** *en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 35 / + 50 | 1 | 7/8 | 260 | **1.271.101** |
| - 10 / + 50 | 1 | 7/8 | 200 | **1.271.102** |
| - 10 / + 110 | 1 | 7/8 | 260 | **1.271.103** |
| - 10 / + 150 | 1 | 7/8 | 260 | **1.271.104** |
| - 10 / + 200 | 1 | 7/8 | 300 | **1.271.105** |
| - 10 / + 250 | 1 | 7/8 | 300 | **1.271.106** |

**Standard thermometers,** enclosed scale, blue reflecting, opal glass scale, with resistant DIFFICO-graduation, Mercury filling, made of borosilicate glass

***Thermomètres à mercure standard à échelle graduée DIFFICO sur plaque opaline,*** *avec réflecteur bleu, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 35 / + 50 | 1 | 7/8 | 260 | **1.272.001** |
| - 10 / + 50 | 1 | 7/8 | 200 | **1.272.002** |
| - 10 / + 110 | 1 | 7/8 | 260 | **1.272.003** |
| - 10 / + 150 | 1 | 7/8 | 260 | **1.272.004** |
| - 10 / + 200 | 1 | 7/8 | 300 | **1.272.005** |
| - 10 / + 250 | 1 | 7/8 | 300 | **1.272.006** |
| - 10 / + 300 | 1 | 7/8 | 340 | **1.272.007** |
| - 10 / + 360 | 1 | 7/8 | 340 | **1.272.008** |
| - 10 / + 420 | 1 | 7/8 | 340 | **1.272.009** |

**Precision low temperature laboratory thermometer,** yellow enamelled, with resistant DIFFICO-graduation, for offically testing, Mercury filling, made of borosilicate glass

***Thermomètres de précision à mercure pour basses températures,*** *à échelle graduée DIFFICO, en émail jaune, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 38 / + 50 | 1 | 6/7 | 280 | **1.274.005** |
| - 38 / + 50 | 0.5 | 6/7 | 300 | **1.274.010** |
| - 58 / + 30 | 0.1 | 6/7 | 550 | **1.274.019** |
| - 38 / + 50 | 0.1 | 6/7 | 550 | **1.274.020** |

**Precision low temperature laboratory thermometer,** yellow enamelled, with resistant DIFFICO-graduation, for offically testing, filled with organic liquids, made of borosilicate glass

***Thermomètres à liquide organique de précision pour basses températures,*** *à échelle graduée DIFFICO, en émail jaune, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 100 / + 30 | 1 | 6/7 | 300 | **1.274.102** |
| - 50 / + 50 | 1 | 6/7 | 280 | **1.274.104** |
| - 100 / + 30 | 0.5 | 6/7 | 400 | **1.274.107** |
| - 50 / + 30 | 0.5 | 6/7 | 300 | **1.274.111** |

**Precision laboratory thermometer,** white enamelled, with resistant DIFFICO-graduation, for offically testing, Mercury filled, made of borosilicate glass, DIN 12778

***Thermomètres à mercure de précision,*** *à échelle graduée DIFFICO, en émail blanc, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 0 / + 100 | 1 | 6/7 | 305 | **1.276.003** |
| - 0 / + 150 | 1 | 6/7 | 305 | **1.276.004** |
| - 0 / + 250 | 1 | 6/7 | 350 | **1.276.005** |
| - 0 / + 360 | 1 | 6/7 | 380 | **1.276.006** |

**Precision laboratory thermometer,** yellow enamelled, with resistant DIFFICO-graduation, for offically testing, filled with organic liquids, made of borosilicate glass

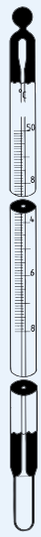
***Thermomètres à liquide organique de précision,*** *à échelle graduée DIFFICO, en émail jaune, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 10 / + 100 | 1 | 6/7 | 305 | **1.276.103** |
| - 10 / + 150 | 1 | 6/7 | 305 | **1.276.104** |

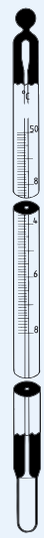
**Universal laboratory thermometers,** solid stem, yellow enamelled, with resistant DIFFICO-graduation, Mercury filling, made of borosilicate glass

***Thermomètres à mercure universels,*** *à échelle graduée DIFFICO, en émail jaune, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 35 / + 50 | 1 | 6/7 | 260 | **1.278.001** |
| - 10 / + 50 | 1 | 6/7 | 200 | **1.278.002** |
| - 10 / + 110 | 1 | 6/7 | 260 | **1.278.003** |
| - 10 / + 150 | 1 | 6/7 | 260 | **1.278.004** |
| - 10 / + 200 | 1 | 6/7 | 300 | **1.278.005** |
| - 10 / + 250 | 1 | 6/7 | 300 | **1.278.006** |
| - 10 / + 300 | 1 | 6/7 | 340 | **1.278.007** |
| - 10 / + 420 | 1 | 6/7 | 340 | **1.278.009** |



**1.274.*****



**1.274.1****



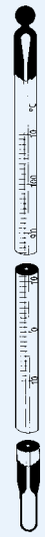
**1.276.*****



**1.276.1****



**1.278.*****

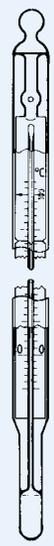


1.278.1**

**Universal laboratory thermometers,** solid stem, yellow enamelled, with resistant DIFFICO-graduation, filled with organic liquids, made of borosilicate glass

***Thermomètres à liquide organique universels,*** *à échelle graduée DIFFICO, en émail jaune, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 35 / + 50 | 1 | 6/7 | 260 | **1.278.101** |
| - 10 / + 50 | 1 | 6/7 | 200 | **1.278.102** |
| - 10 / + 110 | 1 | 6/7 | 260 | **1.278.103** |
| - 10 / + 150 | 1 | 6/7 | 260 | **1.278.104** |
| - 10 / + 200 | 1 | 6/7 | 300 | **1.278.105** |
| - 10 / + 250 | 1 | 6/7 | 300 | **1.278.106** |



1.280.***
-
1.280.1**

**Precision laboratory thermometers,** (enclosed scale), blue reflecting, opal glass scale, for officially testing, Mercury filling, made of borosilicate glass, acc. to DIN 12778

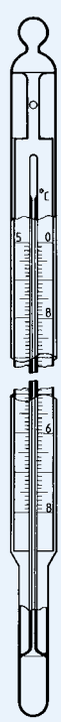
***Thermomètres à mercure de précision,*** *à échelle graduée DIFFICO, avec réflecteur bleu, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 200 / + 30 | 1 | 8/10 | 350 | **1.280.001** |
| 0 / + 100 | 1 | 8/10 | 305 | **1.280.004** |
| 0 / + 150 | 1 | 8/10 | 305 | **1.280.005** |
| 0 / + 250 | 1 | 8/10 | 350 | **1.280.006** |
| 0 / + 360 | 1 | 8/10 | 380 | **1.280.007** |

**Precision laboratory thermometers,** (enclosed scale), blue reflecting, opal glass scale, for officially testing, filled with organic liquids, made of borosilicate glass, acc. to DIN 12778

***Thermomètres à liquide organique de précision,*** *à échelle graduée DIFFICO, avec réflecteur bleu, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 100 / + 30 | 1 | 8/10 | 305 | **1.280.102** |
| - 50 / + 50 | 1 | 8/10 | 305 | **1.280.103** |



1.282.***
-
1.282.1**

**Precision low temperature laboratory thermometers,** (enclosed scale), blue reflecting, opal glass scale, for officially testing, Mercury filling, made of borosilicate glass

***Thermomètres de précision à mercure pour basses températures,*** *à échelle graduée DIFFICO, avec réflecteur bleu, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 38 / + 50 | 1 | 8/10 | 280 | **1.282.007** |
| - 200 / + 30 | 0.5 | 8/10 | 400 | **1.282.011** |
| - 38 / + 50 | 0.5 | 8/10 | 300 | **1.282.015** |
| - 58 / + 30 | 0.1 | 8/10 | 550 | **1.282.024** |
| - 38 / + 50 | 0.1 | 8/10 | 550 | **1.282.025** |

**Precision low temperature laboratory thermometers,** (enclosed scale), blue reflecting, opal glass scale, for officially testing, filled with organic liquids, made of borosilicate glass

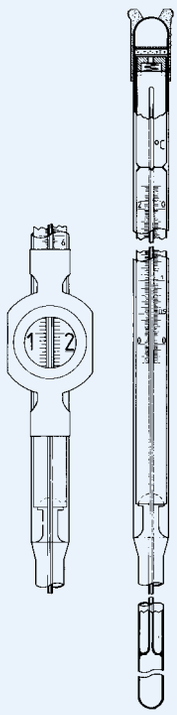
***Thermomètres de précision à liquide organique pour basses températures,*** *à échelle graduée DIFFICO, avec réflecteur bleu, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 50 / + 50 | 1 | 8/10 | 280 | **1.282.106** |
| - 100 / + 30 | 0.5 | 8/10 | 400 | **1.282.112** |
| - 50 / + 50 | 0.5 | 8/10 | 300 | **1.282.114** |
| - 50 / + 50 | 0.1 | 8/10 | 580 | **1.282.123** |

**Precision calorimeter thermometers,** acc. to Berthelot-Mahler (enclosed scale), blue reflecting, opal glass scale, for officially testing, Mercury filling, made of borosilicate glass

***Thermomètres calorimétriques à mercure de Berthelot-Mahler,*** *à réflecteur bleu, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 10 / + 0 | 0.01 | 14/15 | 780 | **1.290.001** |
| - 5 / + 5 | 0.01 | 14/15 | 780 | **1.290.002** |
| 0 / + 10 | 0.01 | 14/15 | 780 | **1.290.003** |
| + 10 / + 20 | 0.01 | 14/15 | 780 | **1.290.004** |
| + 15 / + 25 | 0.01 | 14/15 | 780 | **1.290.005** |
| + 20 / + 30 | 0.01 | 14/15 | 780 | **1.290.006** |
| + 25 / + 35 | 0.01 | 14/15 | 780 | **1.290.007** |
| + 30 / + 40 | 0.01 | 14/15 | 780 | **1.290.008** |
| + 35 / + 45 | 0.01 | 14/15 | 780 | **1.290.009** |
| + 40 / + 50 | 0.01 | 14/15 | 780 | **1.290.010** |
| + 45 / + 55 | 0.01 | 14/15 | 780 | **1.290.011** |
| + 50 / + 60 | 0.01 | 14/15 | 780 | **1.290.012** |
| + 55 / + 65 | 0.01 | 14/15 | 780 | **1.290.013** |
| + 60 / + 70 | 0.01 | 14/15 | 780 | **1.290.014** |
| + 65 / + 75 | 0.01 | 14/15 | 780 | **1.290.015** |
| + 70 / + 80 | 0.01 | 14/15 | 780 | **1.290.016** |
| + 80 / + 90 | 0.01 | 14/15 | 780 | **1.290.017** |
| + 90 / + 100 | 0.01 | 14/15 | 780 | **1.290.018** |
| + 95 / + 105 | 0.01 | 14/15 | 780 | **1.290.019** |
| + 100 / + 110 | 0.01 | 14/15 | 780 | **1.290.020** |



**1.290.*****

**Precision calorimeter thermometers,** solid stem, ISO, yellow enamelled, with resistant DIFFICO-graduation, for officially testing, Mercury filling, made of borosilicate glass

***Thermomètres calorimétriques à mercure de Berthelot-Mahler,*** *en émail jaune, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| + 9 / + 15 | 0.01 | 9/10 | 760 | **1.292.001** |
| + 12 / + 18 | 0.01 | 9/10 | 760 | **1.292.002** |
| + 15 / + 21 | 0.01 | 9/10 | 760 | **1.292.003** |
| + 18 / + 24 | 0.01 | 9/10 | 760 | **1.292.004** |
| + 21 / + 27 | 0.01 | 9/10 | 760 | **1.292.005** |
| + 24 / + 30 | 0.01 | 9/10 | 760 | **1.292.006** |
| + 27 / + 33 | 0.01 | 9/10 | 760 | **1.292.007** |
| + 30 / + 36 | 0.01 | 9/10 | 760 | **1.292.008** |
| + 33 / + 39 | 0.01 | 9/10 | 760 | **1.292.009** |
| + 36 / + 42 | 0.01 | 9/10 | 760 | **1.292.010** |
| + 39 / + 45 | 0.01 | 9/10 | 760 | **1.292.011** |

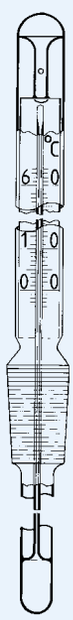


**1.292.*****

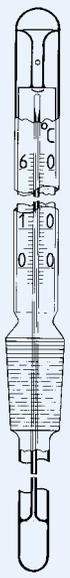
**Thermometers for flasks and still heads,** with cone ST 14/23, blue reflection, not enamelled, prismatic, acc. to DIN 12784, Mercury filling, made of borosilicate glass, acc. to DIN 12784

***Thermomètres à mercure pour distillations avec rodage conique mâle RIN 14/23,*** *réflecteur bleu, non-émaillé, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Built-in length<br>*Plongeant*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 38 / + 50 | 1 | 11 | 68 | **1.300.001** |
| - 38 / + 50 | 1 | 11 | 75 | **1.300.002** |
| - 38 / + 50 | 1 | 11 | 95 | **1.300.003** |
| - 38 / + 50 | 1 | 11 | 125 | **1.300.004** |
| - 38 / + 50 | 1 | 11 | 150 | **1.300.005** |
| - 38 / + 50 | 0.5 | 11 | 68 | **1.302.001** |
| - 38 / + 50 | 0.5 | 11 | 75 | **1.302.002** |
| - 38 / + 50 | 0.5 | 11 | 95 | **1.302.003** |
| - 38 / + 50 | 0.5 | 11 | 125 | **1.302.004** |
| - 38 / + 50 | 0.5 | 11 | 150 | **1.302.005** |
| - 10 / + 100 | 0.5 | 11 | 125 | **1.310.008** |
| - 10 / + 100 | 0.5 | 11 | 150 | **1.310.009** |
| - 10 / + 150 | 1 | 11 | 68 | **1.312.001** |
| - 10 / + 150 | 1 | 11 | 75 | **1.312.002** |
| - 10 / + 150 | 1 | 11 | 95 | **1.312.003** |



**1.300.*****

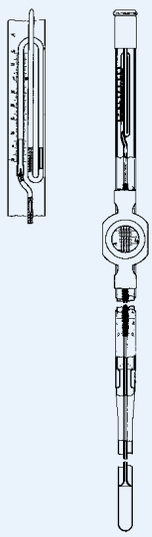


**1.312.*** - 1.320.***

**Thermometers for flasks and still heads,** with cone ST 14/23, blue reflection, not enamelled, prismatic, made of borosilicate glass, acc. to DIN 12784, Mercury filling

***Thermomètres à mercure pour distillations avec rodage conique mâle RIN 14/23,*** *réflecteur bleu, non-émaillé, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Built-in length<br>*Plongeant*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 10 / + 150 | 1 | 11 | 125 | **1.312.004** |
| - 10 / + 150 | 1 | 11 | 150 | **1.312.005** |
| - 10 / + 150 | 1 | 11 | 175 | **1.312.006** |
| - 10 / + 150 | 1 | 11 | 200 | **1.312.007** |
| - 10 / + 150 | 1 | 11 | 250 | **1.312.008** |
| - 10 / + 150 | 1 | 11 | 300 | **1.312.009** |
| - 10 / + 150 | 0.5 | 11 | 68 | **1.314.001** |
| - 10 / + 150 | 0.5 | 11 | 75 | **1.314.002** |
| - 10 / + 150 | 0.5 | 11 | 95 | **1.314.003** |
| - 10 / + 150 | 0.5 | 11 | 125 | **1.314.004** |
| - 10 / + 150 | 0.5 | 11 | 150 | **1.314.005** |
| - 10 / + 250 | 1 | 11 | 68 | **1.316.001** |
| - 10 / + 250 | 1 | 11 | 75 | **1.316.002** |
| - 10 / + 250 | 1 | 11 | 95 | **1.316.003** |
| - 10 / + 250 | 1 | 11 | 125 | **1.316.004** |
| - 10 / + 250 | 1 | 11 | 150 | **1.316.005** |
| - 10 / + 250 | 1 | 11 | 175 | **1.316.006** |
| - 10 / + 250 | 1 | 11 | 200 | **1.316.007** |
| - 10 / + 250 | 1 | 11 | 250 | **1.316.008** |
| - 10 / + 250 | 1 | 11 | 300 | **1.316.009** |
| - 10 / + 250 | 0.5 | 11 | 68 | **1.318.001** |
| - 10 / + 250 | 0.5 | 11 | 75 | **1.318.002** |
| - 10 / + 250 | 0.5 | 11 | 95 | **1.318.003** |
| - 10 / + 250 | 0.5 | 11 | 125 | **1.318.004** |
| - 10 / + 250 | 0.5 | 11 | 150 | **1.318.005** |
| - 10 / + 360 | 1 | 11 | 68 | **1.320.001** |
| - 10 / + 360 | 1 | 11 | 75 | **1.320.002** |
| - 10 / + 360 | 1 | 11 | 95 | **1.320.003** |
| - 10 / + 360 | 1 | 11 | 125 | **1.320.004** |
| - 10 / + 360 | 1 | 11 | 150 | **1.320.005** |
| - 10 / + 360 | 1 | 11 | 175 | **1.320.006** |
| - 10 / + 360 | 1 | 11 | 200 | **1.320.007** |
| - 10 / + 360 | 1 | 11 | 250 | **1.320.008** |

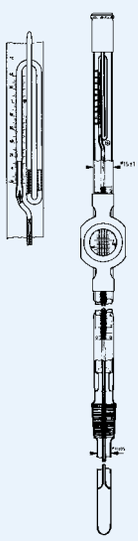


**1.340.*** - 1.345.***

**Precison adjusting thermometers acc. to Beckmann,** without ST, with dropping traps and auxilliary scale
- 20 to + 160 °C : 1 °C, for ice point and boiling point method, for officialy testing, Mercury filling, made of borosilicate glass

***Thermomètre de Beckmann à mercure,*** *sans rodage, avec pièges à goutte et échelle auxiliaire -20/+160°C:1°C, utilisé pour la méthode du point d'ébullition, étalonnable, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Built-in length<br>*Plongeant*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0 + 6 | 0.01 | 14/16 | 200 | **1.340.000** |



**1.350.***

**Precison adjusting thermometers acc. to Beckmann,** without ST, with dropping traps and auxilliary scale
- 58 to + 30 °C : 1 °C, for low temperature measurement, for officialy testing, Mercury filling, made of borosilicate glass

***Thermomètre de Beckmann à mercure,*** *sans rodage, avec pièges à goutte et échelle auxiliaire -58/+30°C:1°C, utilisé pour la méthode du point de glace, étalonnable, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Built-in length<br>*Plongeant*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0 + 6 | 0.01 | 14/16 | 200 | **1.345.000** |

**Precison adjusting thermometers acc. to Beckmann,** ST 19/26, with dropping traps and auxilliary scale
- 20 to + 160 °C : 1 °C, for boiling point method, for officially testing, Mercury filling, made of borosilicate glass

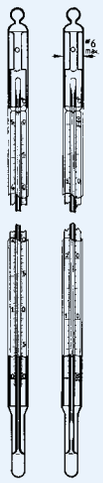
***Thermomètre de Beckmann à mercure,*** *avec rodage 19/26, pièges à goutte et échelle auxiliaire -20/+160°C:1°C, utilisé pour la méthode du point d'ébullition, et point de congélation, étalonnable, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Built-in length<br>*Plongeant*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0 - 6 | 0.01 | 14/16 | 170 | **1.350.000** |

**Precison set thermometers acc. to Anschütz,** acc. to DIN 12777, (enclosed scale) not enamelled, opal glass scale, for officially testing, Mercury filling, made of borosilicate glass

***Thermomètres de Anschütz à mercure,*** *non émaillés, échelle en verre opaline, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0 / + 50 | 0.2 | 6 | 175 | **1.365.001** |
| + 50 / + 100 | 0.2 | 6 | 175 | **1.365.002** |
| + 100 / + 150 | 0.2 | 6 | 175 | **1.365.003** |
| + 150 / + 200 | 0.2 | 6 | 175 | **1.365.004** |
| + 200 / + 250 | 0.5 | 6 | 175 | **1.365.005** |
| + 250 / + 300 | 0.5 | 6 | 175 | **1.365.006** |
| + 300 / + 360 | 1 | 6 | 175 | **1.365.007** |
| Complete set in case<br>*Le jeu de 7 thermomètres de Anschütz, dans étui* | | | | **1.365.008** |

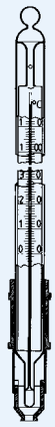


**1.365.*****

**Dripping point thermometers acc. to Ubbelohde,** acc. to DIN 12785, (enclosed scale) not enamelled, opal glass scale, for officially testing, Mercury filling, made of borosilicate glass

***Thermomètres pour le point d'écoulement selon Ubbelohde à mercure,*** *non émaillés, échelle en verre opaline, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0 / + 110 | 1 | 10 | 235 | **1.366.001** |
| + 50 / + 160 | 1 | 10 | 235 | **1.366.002** |
| + 100 / + 230 | 1 | 10 | 235 | **1.366.003** |

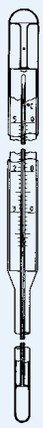


**1.366.*****

**Setting-point thermometers,** acc. to DIN 12785, (enclosed scale) not enamelled, opal glass scale, adjusted for a emmersion of 180 mm, for officially testing, Toluol, red filling, made of borosilicate glass

***Thermomètre d'indication du point,*** *à liquide rouge , non émaillés, échelle en verre opaline, ajusté pour immersion de 180 mm, étalonnable, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 70 / + 50 | 1 | 10 | 360 | **1.367.001** |

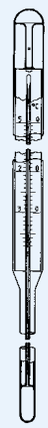


**1.367.*****

**Setting-point thermometers,** acc. to DIN 12785, (enclosed scale) not enamelled, opal glass scale, adjusted for a emmersion of 180 mm, for officially testing, Mercury filling, made of borosilicate glass

***Thermomètres pour point de figeage*** *à mercure , non émaillés, échelle en verre opaline, ajustés pour immersion de 180 mm, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 58 / + 50 | 1 | 10 | 360 | **1.367.002** |
| - 38 / + 50 | 1 | 10 | 360 | **1.367.003** |

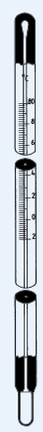


**1.367.*****

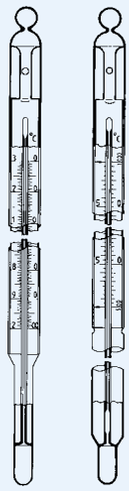
**Congealing-point thermometers,** acc. to DIN 12785, solid steam, yellow enamelled, with resistant DIFFICO graduation, for officially testing, Mercury filling, made of borosilicate glass

***Thermomètres pour point de solidification****, à mercure, en émail jaune, échelle graduée DIFFICO, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0 / + 100 | 0.5 | 6 | 300 | **1.368.001** |
| + 50 / + 150 | 0.5 | 6 | 300 | **1.368.002** |



**1.368.*****



**1.370.*****

**Precision universal set thermometers,** acc. to DIN 12785, (enclosed scale) blue reflecting not enamelled, opal glass scale, for officially testing, made of borosilicate glass

***Thermomètres de précision universels,*** *non émaillés, avec plaque en verre opaline, étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 200 / + 30 | 0.5 | 9 | 400 | **1.370.001** |
| - 100 / + 30 | 0.5 | 9 | 400 | **1.370.002** |
| - 58 / + 10 | 0.1 | 9 | 400 | **1.370.003** |
| + 0 / + 51 | 0.1 | 9 | 400 | **1.370.004** |
| + 47 / + 101 | 0.1 | 9 | 400 | **1.370.005** |
| + 97 / + 151 | 0.1 | 9 | 400 | **1.370.006** |
| + 147 / + 201 | 0.1 | 9 | 400 | **1.370.007** |
| + 197 / + 251 | 0.1 | 9 | 400 | **1.370.008** |
| + 247 / + 301 | 0.1 | 9 | 400 | **1.370.009** |
| + 297 / + 360 | 0.1 | 9 | 400 | **1.370.010** |
| + 350 / + 401 | 0.1 | 9 | 400 | **1.370.011** |
| + 395 / + 610 | 0.5 | 9 | 400 | **1.370.012** |
| + 300 / + 700 | 2 | 9 | 400 | **1.370.013** |
| + 500 / + 1000 | 5 | 9 | 400 | **1.370.014** |

**Precision universal set thermometers, complete set in a case** acc. to DIN 12785, (enclosed scale) blue reflecting not enamelled, opal glass scale, for officially testing, made of borosilicate glass

***Jeu complet de thermomètres universels livrés dans étui,*** *étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Order No.<br>*N° de code* |
|---|---|
| - 200 / + 1000 | **1.370.015** |
| - 200 / + 401 | **1.370.016** |



**1.375.*****

**Melting-point thermometers,** are used in melting-point apparatus, acc. to Thiele or Thomas, for officially testing, made of borosilicate glass

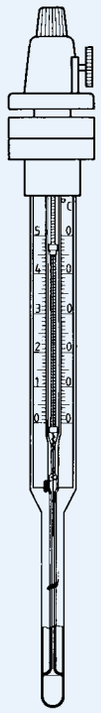
***Thermomètres pour appareils de point de fusion selon Thiele ou Thomas,*** *étalonnables, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 38 / + 100 | 0.5 | 6/7 | 250 | **1.375.001** |
| + 100 / + 250 | 0.5 | 6/7 | 250 | **1.375.002** |
| + 200 / + 360 | 0.5 | 6/7 | 250 | **1.375.003** |
| + 0 / + 360 | 1 | 6/7 | 250 | **1.375.004** |

**Contact thermometers,**
adjustable with turning magnet, adjusting and reading scales, yellow enamelled, with plug cap. On request with cable, plugsize and length of cable must be mentioned, made of borosilicate glass

***Thermomètres à contact***
*avec aimant tournant réglage et échelles de ecture, en émail jaune, avec capuchon à fiche. Sur demande avec câble (prière préciser la longueur), en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Built-in length<br>*Plongeant*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 30 / + 50 | 1 | 18 | 50 | **1.378.001** |
| - 30 / + 50 | 1 | 18 | 75 | **1.378.002** |
| - 30 / + 50 | 1 | 18 | 100 | **1.378.003** |
| - 30 / + 50 | 1 | 18 | 200 | **1.378.004** |
| - 30 / + 50 | 1 | 18 | 300 | **1.378.005** |
| 0 / + 100 | 1 | 18 | 50 | **1.378.013** |
| 0 / + 100 | 1 | 18 | 75 | **1.378.014** |
| 0 / + 100 | 1 | 18 | 100 | **1.378.015** |
| 0 / + 100 | 1 | 18 | 200 | **1.378.016** |
| 0 / + 100 | 1 | 18 | 300 | **1.378.017** |
| 0 / + 250 | 2 | 18 | 50 | **1.378.019** |
| 0 / + 250 | 2 | 18 | 75 | **1.378.020** |
| 0 / + 250 | 2 | 18 | 100 | **1.378.021** |
| 0 / + 250 | 2 | 18 | 200 | **1.378.022** |
| 0 / + 250 | 2 | 18 | 300 | **1.378.023** |
| 0 / + 360 | 2 | 18 | 50 | **1.378.025** |
| 0 / + 360 | 2 | 18 | 75 | **1.378.026** |
| 0 / + 360 | 2 | 18 | 100 | **1.378.027** |
| 0 / + 360 | 2 | 18 | 200 | **1.378.028** |
| 0 / + 360 | 2 | 18 | 300 | **1.378.029** |

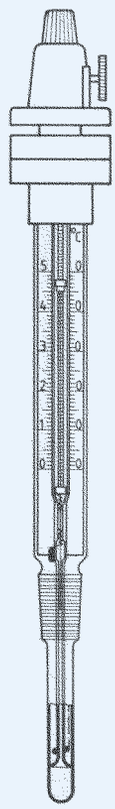


**1.378.*****

**Contact thermometers,**
with cone ST 14/23, adjustable with turning magnet, adjusting and reading scales, yellow enamelled, with plug cap. On request with cable, plugsize and length of cable must be mentioned, made of borosilicate glass

***Thermomètres à contact***
*à rodage RIN 14/23, avec aimant tournant réglage et échelles de lecture, en émail jaune, avec capuchon à fiche. Sur demande avec câble (prière préciser la longueur), en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Outer Ø<br>*Ø tige*<br>mm | Built-in length<br>*Plongeant*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 30 / + 50 | 1 | 18 | 50 | **1.380.001** |
| - 30 / + 50 | 1 | 18 | 75 | **1.380.002** |
| - 30 / + 50 | 1 | 18 | 100 | **1.380.003** |
| - 30 / + 50 | 1 | 18 | 200 | **1.380.004** |
| - 30 / + 50 | 1 | 18 | 300 | **1.380.005** |
| 0 / + 100 | 1 | 18 | 50 | **1.380.011** |
| 0 / + 100 | 1 | 18 | 75 | **1.380.012** |
| 0 / + 100 | 1 | 18 | 100 | **1.380.013** |
| 0 / + 100 | 1 | 18 | 200 | **1.380.014** |
| 0 / + 100 | 1 | 18 | 300 | **1.380.015** |
| 0 / + 250 | 2 | 18 | 50 | **1.380.016** |
| 0 / + 250 | 2 | 18 | 75 | **1.380.017** |
| 0 / + 250 | 2 | 18 | 100 | **1.380.018** |
| 0 / + 250 | 2 | 18 | 200 | **1.380.019** |
| 0 / + 250 | 2 | 18 | 300 | **1.380.020** |
| 0 / + 360 | 5 | 18 | 50 | **1.380.021** |
| 0 / + 360 | 5 | 18 | 75 | **1.380.022** |
| 0 / + 360 | 5 | 18 | 100 | **1.380.023** |
| 0 / + 360 | 5 | 18 | 200 | **1.380.024** |
| 0 / + 360 | 5 | 18 | 300 | **1.380.025** |



**1.380.*****




**1.390.*****

**ASTM-Thermometer (solid stem),** with Celsius scale range, yellow enamelled, with resistant DIFFICO graduation, made of borosilicate glass

***Thermomètres ASTM,*** *avec échelle graduée en °C en émail jaune, graduation indélible, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | ASTM No.<br>*N° de ASTM* | ASTM Type<br>*Type de ASTM* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| - 20 / + 150 | 1 | 1C | Partial Immersion | **1.390.001** |
| - 5 / + 300 | 1 | 2C | Partial Immersion | **1.390.002** |
| - 5 / + 400 | 1 | 3C | Partial Immersion | **1.390.003** |
| - 38 / + 50 | 1 | 5C | Cloud and pour | **1.390.004** |
| - 80 / + 20 | 1 | 6C | Low Cloud and pour | **1.390.005** |
| - 2 / + 300 | 1 | 7C | Low Distillation | **1.390.006** |
| - 2 / + 400 | 1 | 8C | High Distillation | **1.390.007** |
| - 5 / + 110 | 0.5 | 9C | Penski-Martens Low Range | **1.390.008** |
| + 90 / + 370 | 2 | 10C | Penski-Martens High Range | **1.390.009** |
| - 6 / + 400 | 2 | 11C | Open Flash | **1.390.010** |
| - 20 / + 102 | 0.2 | 12C | Gravity | **1.390.011** |
| + 155 / + 170 | 0.5 | 13C | Loss on Heat | **1.390.012** |
| + 38 / + 82 | 0.1 | 14C | Paraffin Wax Melting Point | **1.390.013** |
| - 2 / + 80 | 0.2 | 15C | Low softening point | **1.390.014** |
| + 30 / + 200 | 0.5 | 16C | High softening point | **1.390.015** |
| + 19 / + 27 | 0.1 | 17C | Saybolt Viscosity | **1.390.016** |
| + 34 / + 42 | 0.1 | 18C | Saybolt Viscosity | **1.390.017** |
| + 49 / + 57 | 0.1 | 19C | Saybolt Viscosity | **1.390.018** |
| + 57 / + 65 | 0.1 | 20C | Saybolt Viscosity | **1.390.019** |
| + 79 / + 87 | 0.1 | 21C | Saybolt Viscosity | **1.390.020** |
| + 95 / + 103 | 0.1 | 22C | Saybolt Viscosity | **1.390.021** |
| + 18 / + 28 | 0.2 | 23C | Engler Viscosity | **1.390.022** |
| + 39 / + 54 | 0.2 | 24C | Engler Viscosity | **1.390.023** |
| + 95 / + 105 | 0.2 | 25C | Engler Viscosity | **1.390.024** |
| + 130 / + 140 | 0.1 | 26C | Sability T. of Soluble Nitroc. | **1.390.025** |
| + 147 / + 182 | 0.5 | 27C | Turpentine Distillation | **1.390.026** |
| - 38 / + 42 | 0.2 | 33C | Aniline Point | **1.390.027** |
| + 25 / + 105 | 0.2 | 34C | Aniline Point | **1.390.028** |
| + 90 / + 170 | 0.2 | 35C | Aniline Point | **1.390.029** |
| - 2 / + 68 | 0.2 | 36C | Titer Test | **1.390.030** |
| - 2 / + 52 | 0.2 | 37C | Solvents Distillation | **1.390.031** |
| + 24 / + 78 | 0.2 | 38C | Solvents Distillation | **1.390.032** |
| + 48 / + 102 | 0.2 | 39C | Solvents Distillation | **1.390.033** |
| + 72 / + 126 | 0.2 | 40C | Solvents Distillation | **1.390.034** |
| + 98 / + 152 | 0.2 | 41C | Solvents Distillation | **1.390.035** |
| + 95 / + 255 | 0.5 | 42C | Solvents Distillation | **1.390.036** |
| + 18.6 / + 21.4 | 0.05 | 44C | Kinematic Viscosity | **1.390.037** |
| + 23.6 / + 26.4 | 0.05 | 45C | Kinematic Viscosity | **1.390.038** |
| + 48.6 / + 51.4 | 0.05 | 46C | Kinematic Viscosity | **1.390.039** |
| + 58.6 / + 61.4 | 0.05 | 47C | Kinematic Viscosity | **1.390.040** |
| + 20 / + 70 | 0.2 | 49C | Stormer Viscosity | **1.390.041** |
| - 10 / + 5 | 0.1 | 52C | Butadine Boiling Point R. | **1.390.042** |
| + 20 / + 100.6 | 0.2 | 54C | Congealing Point | **1.390.043** |
| + 19 / + 35 | 0.02 | 56C | Bomb Calorimeter | **1.390.044** |
| - 20 / + 50 | 0.5 | 57C | Tag Closed Tester Low Range | **1.390.045** |

**ASTM-Thermometer (solid stem),** with Celsius scale range, yellow enamelled, with resistant DIFFICO graduation, made of borosilicate glass

***Thermomètres ASTM***
*avec échelle graduée en °C en émail jaune, graduation indélible, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | ASTM No.<br>*N° de ASTM* | ASTM Type<br>*Type de ASTM* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| + 32 / + 127 | 0.2 | 61C | Petrolatum Melting Point | **1.390.046** |
| - 38 / + 2 | 0.1 | 62C | Precision | **1.390.047** |
| - 8 / + 32 | 0.1 | 63C | Precision | **1.390.048** |
| + 25 / + 55 | 0.1 | 64C | Precision | **1.390.049** |
| + 50 / + 80 | 0.1 | 65C | Precision | **1.390.050** |
| + 75 / + 105 | 0.1 | 66C | Precision | **1.390.051** |
| + 95 / + 155 | 0.2 | 67C | Precision | **1.390.052** |
| + 145 / + 205 | 0.2 | 68C | Precision | **1.390.053** |
| + 195 / + 305 | 0.5 | 69C | Precision | **1.390.054** |
| + 295 / + 405 | 0.5 | 70C | Precision | **1.390.055** |
| - 37 / + 21 | 0.5 | 71C | Oil in Wax | **1.390.056** |
| - 41.4 / + 38.6 | 0.05 | 73C | Kinematic Viscosity | **1.390.057** |
| - 15 / + 105 | 1 | 82C | Fuel rating, Engine | **1.390.058** |
| + 15 / + 70 | 1 | 83C | Fuel rating, Air | **1.390.059** |
| + 25 / + 80 | 1 | 84C | Fuel rating, Orifice Tank | **1.390.060** |
| + 40 / + 150 | 1 | 85C | Fuel rating, Surge | **1.390.061** |
| + 95 / + 175 | 1 | 86C | Fuel rating, Mix | **1.390.062** |
| + 150 / + 205 | 1 | 87C | Fuel rating, Coolant | **1.390.063** |
| + 10 / + 200 | 1 | 88C | Vegetable oil Flash, | **1.390.064** |
| - 20 / + 10 | 0.1 | 89C | Solidification Point | **1.390.065** |
| + 0 / + 30 | 0.1 | 90C | Solidification Point | **1.390.066** |
| + 20 / + 50 | 0.1 | 91C | Solidification Point | **1.390.067** |
| + 40 / + 70 | 0.1 | 92C | Solidification Point | **1.390.068** |
| + 60 / + 90 | 0.1 | 93C | Solidification Point | **1.390.069** |
| + 80 / + 110 | 0.1 | 94C | Solidification Point | **1.390.070** |
| + 100 / + 130 | 0.1 | 95C | Solidification Point | **1.390.071** |
| + 120 / + 150 | 0.1 | 96C | Solidification Point | **1.390.072** |
| + 145 / + 205 | 0.2 | 100C | Solidification Point | **1.390.073** |
| + 195 / + 305 | 0.5 | 101C | Solidification Point | **1.390.074** |
| + 123 / + 177 | 0.2 | 102C | Solvents Distillation | **1.390.075** |
| + 148 / + 202 | 0.2 | 103C | Solvents Distillation | **1.390.076** |
| + 173 / + 227 | 0.2 | 104C | Solvents Distillation | **1.390.077** |
| + 198 / + 252 | 0.2 | 105C | Solvents Distillation | **1.390.078** |
| + 223 / + 277 | 0.2 | 106C | Solvents Distillation | **1.390.079** |
| + 248 / + 302 | 0.2 | 107C | Solvents Distillation | **1.390.080** |
| + 133.6 / + 136.4 | 0.05 | 110C | Kinematic Viscosity | **1.390.081** |
| + 170 / + 250 | 0.2 | 111C | Acids distillation | **1.390.082** |
| + 4 / + 6 | 0.02 | 112C | Solidification Point of Benzene | **1.390.083** |
| - 1 / + 175 | 0.5 | 113C | Bituminous Materials Sof. P. | **1.390.084** |
| - 80 / + 20 | 0.5 | 114C | Aviation Fuel, Freezing Point | **1.390.085** |
| + 18.9 / + 25.1 | 0.01 | 116C | Bomb Calorimeter | **1.390.086** |
| + 23.9 / + 30.1 | 0.01 | 117C | Bomb Calorimeter | **1.390.087** |
| + 28.6 / + 31.4 | 0.05 | 118C | Kinematic Viscosity | **1.390.088** |
| - 38 / - 30 | 0.1 | 119C | Antifreeze Freezing Point | **1.390.089** |
| + 38.6 / + 41.4 | 0.05 | 120C | Kinematic Viscosity | **1.390.090** |




**1.390.*****



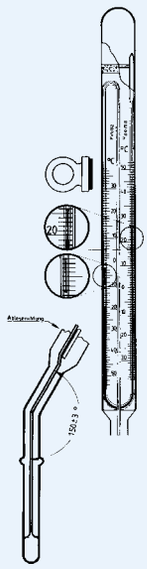
1.390.***

**ASTM-Thermometer (solid stem),** with Celsius scale range, yellow enamelled, with resistant DIFFICO graduation, made of borosilicate glass

***Thermomètres ASTM,*** *avec échelle graduée en °C en émail jaune, graduation indélible, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | ASTM No.<br>*N° de ASTM* | ASTM Type<br>*Type de ASTM* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| + 98.6 / + 101.4 | 0.05 | 121C | Kinematic Viscosity | **1.390.091** |
| - 45 / - 35 | 0.1 | 122C | Brookfield Viscosity | **1.390.092** |
| - 35 / - 25 | 0.1 | 123C | Brookfield Viscosity | **1.390.093** |
| - 25 / - 15 | 0.1 | 124C | Brookfield Viscosity | **1.390.094** |
| - 15 / - 5 | 0.1 | 125C | Brookfield Viscosity | **1.390.095** |
| - 27 / - 24.6 | 0.05 | 126C | Kinematic Viscosity | **1.390.096** |
| - 21.4 / - 18.6 | 0.05 | 127C | Kinematic Viscosity | **1.390.097** |
| - 1.4 / + 1.4 | 0.05 | 128C | Kinematic Viscosity | **1.390.098** |
| - 91.6 / + 94.4 | 0.05 | 129C | Kinematic Viscosity | **1.390.099** |
| - 7 / + 105 | 0.5 | 130C | Tank | **1.390.100** |

ASTM-thermometer (solid stem) with Fahrenheit scales range on request.
*Thermomètres ASTM avec échelle en Fahrenheit, disponibles aussi sur demande*

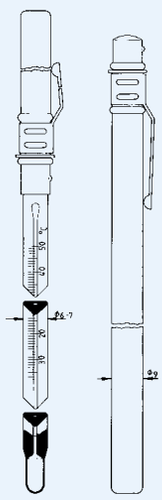


1.391.***

**Soil thermometers, maximum and minimum,** angle 150°, with magnet, are used measure temperatures of soil. There is a steel index marker above the mercury column which indicates the maximum or minimum temperatures, HG-filling, yellow enamelled, made of borosilicate glass

***Thermomètres de sol, à maxima-minima, angle de 150°,*** *avec aimant et utilisé pour mesurer les températures du sol. Un marqueur en acier au-dessus de la colonne de mercure indique les températures minima et maxima. Remplissage au mercure. Plaque en émail jaune, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Stem length<br>*longueur de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| - 30 / + 50 | 0.5 | 20 | **1.391.001** |
| - 25 / + 50 | 0.5 | 50 | **1.391.002** |
| - 25 / + 50 | 0.5 | 100 | **1.391.003** |
| - 20 / + 50 | 0.5 | 150 | **1.391.004** |
| - 20 / + 50 | 0.5 | 200 | **1.391.005** |

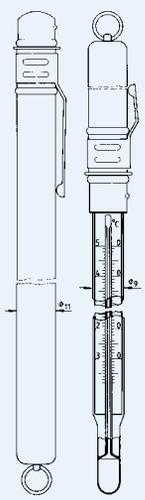


1.393.***

**Pocket thermometers,** stem form prismatic. Stem with „DIFFICO graduation". Delivered in a nickel-plated protective metal case with a bajonet joint and clips for mounting. Total length 40 mm, white enamelled, red filling, made of borosilicate glass

***Thermomètres de poche*** *à liquide rouge livrés dans un étui de protection en acier nickelé. Graduation sur plaque émaillée blanche, longueur totale 140 mm, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Order No.<br>*N° de code* |
|---|---|---|
| - 50 / + 50 | 1 | **1.393.001** |
| - 38 / + 50 | 1 | **1.393.002** |
| - 10 / + 50 | 1 | **1.393.003** |
| - 10 / + 100 | 1 | **1.393.005** |



1.394.***

**Pocket thermometers,** enclosed scale, delivered in a nickel-plated protective metal case with a bajonet joint and clips for mounting, total length 140 mm, not enamelled, red filling, made of borosilicate glass

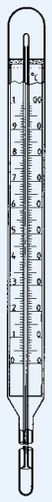
***Thermomètres de poche*** *à liquide rouge livrés dans un étui de protection en acier nickelé. Graduation sur plaque non-émaillée, longueur totale 140 mm, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Order No.<br>*N° de code* |
|---|---|---|
| - 38 / + 50 | 1 | **1.394.001** |
| - 10 / + 50 | 1 | **1.394.002** |
| - 10 / + 100 | 1 | **1.394.003** |

**Stem thermometers,** acc. to DIN 16178, opal glass scale, yellow enamelled, mercury filling, made of borosilicate glass, without protective metal case

***Thermomètre de laboratoire à mercure*** *sur échelle en verre opaline avec réflecteur bleu ou en émail jaune, en verre borosilicaté*

| Scale range<br>*Echelle*<br>°C | Division<br>*Division*<br>°C | Length of lower part<br>*longueur d'immersion*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| **Type: blue reflecting / *Réflecteur bleu*** | | | |
| - 30 / + 50 | 1 | 105 | **1.396.001** |
| - 30 / + 50 | 1 | 165 | **1.396.002** |
| - 30 / + 50 | 1 | 405 | **1.396.005** |
| 0 / + 100 | 1 | 105 | **1.396.006** |
| 0 / + 100 | 1 | 165 | **1.396.007** |
| 0 / + 100 | 1 | 405 | **1.396.010** |
| **Type: yellow emanelled / *Emaillé jaune*** | | | |
| 0 / + 160 | 2 | 105 | **1.396.011** |
| 0 / + 160 | 2 | 165 | **1.396.012** |
| 0 / + 160 | 2 | 405 | **1.396.015** |
| 0 / + 200 | 2 | 105 | **1.396.016** |
| 0 / + 300 | 2 | 165 | **1.396.018** |
| 0 / + 300 | 2 | 405 | **1.396.021** |
| 0 / + 400 | 5 | 105 | **1.396.022** |
| 0 / + 400 | 5 | 405 | **1.396.025** |



**1.396.*****

**Clinical thermometer,** oval form, enclosed white chromalux-scale, yellow capillary, + 36 to + 42 °C, subdivided in 0.1 °C, with cylindrical bulb 130 mm long, German quality

***Thermomètre médical,*** *forme ovale, avec échelle chromalux blanche, capillaire jaune, échelle +36 à +42°C : 0.1°C, 130 mm. Fabrication allemande*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Workside tested, suitable for certification / *Etalonnable* | **1.397.001** |
| Officially tested and stamped / *Officiellement étalonné et certifié* | **1.397.002** |

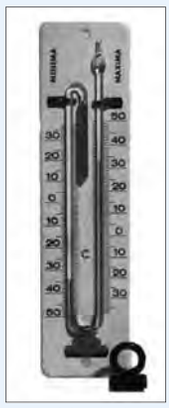


**1.397.*****

**Maximum - Minimum thermometer,** weatherproof, with magnet
Range: - 30 to + 50 °C : 1/1 °C
200 x 55 mm

***Thermomètre à maxima-minima,*** *étanche, avec aimant. Echelle -30 à + 50 °C : 1/1 °C. Dimensions: 200 x 55 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **1.397.010** |



**1.397.010**

**Maximum - Minimum thermometer,** weatherproof, with push-button, operated return of floats
Range: - 30 to + 50 °C : 1/1 °C
230 x 90 mm

***Thermomètre à maxima-minima,*** *étanche, avec bouton-poussoir. Echelle -30 à + 50 °C : 1 °C. Dimensions: 230 x 90 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **1.397.020** |



**1.397.020**

**Wall thermometer,** - 40 to + 50 °C, subdivided in 1/1 °C, with inserted spirit filled capillary with bulbguard and loop
210 x 35 mm

***Thermomètre mural,*** *avec capillaire rempli d'alcool, échelle -40 à + 50 °C : 1 °C. Dimensions: 210 x 35 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **1.397.100** |



**1.397.100**

**Window thermometer,** - 40 to + 50 °C, subdivided in 1/1 °C, with inserted spirit filled capillary, scale on white plastic base, with nickel plated brackets
200 x 40 mm

***Thermomètre de fenêtre,*** *avec capillaire rempli d'alcool, échelle -40 à + 50 °C : 1 °C montée sur une base en plastique. Dimensions: 200 x 40mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **1.397.200** |



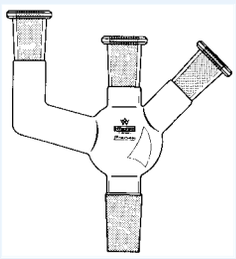
**1.397.200**



1.400.***



1.405.***



1.410.***



1.420.***



1.425.***

## Multiple adapters
## *Allonges à multi-rodages*

**Multiple adapters,** with two parallel necks, made of borosilicate glass

***Allonges à multi-rodages RIN,** à deux cols parallèles à RN femelles, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.400.001** |
| 19/26 | 14/23 | **1.400.002** |
| 19/26 | 19/26 | **1.400.003** |
| 24/29 | 19/26 | **1.400.004** |
| 24/29 | 24/29 | **1.400.005** |
| 29/32 | 14/23 | **1.400.006** |
| 29/32 | 19/26 | **1.400.007** |
| 29/32 | 29/32 | **1.400.008** |

**Multiple adapters,** with two necks, oplique sockets, made of borosilicate glass

***Allonges à multi-rodages RIN,** à deux cols dont un incliné à RN femelles, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.405.001** |
| 19/26 | 14/23 | **1.405.002** |
| 19/26 | 19/26 | **1.405.003** |
| 24/29 | 19/26 | **1.405.004** |
| 24/29 | 24/29 | **1.405.005** |
| 29/32 | 14/23 | **1.405.006** |
| 29/32 | 19/26 | **1.405.007** |
| 29/32 | 29/32 | **1.405.008** |

**Multiple adapters,** with three necks, made of borosilicate glass

***Allonges à multi-rodages RIN,** à deux cols parallèles et un col incliné à RN femelles, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 19/26 | 14/23 | **1.410.001** |
| 19/26 | 19/26 | **1.410.002** |
| 24/29 | 19/26 | **1.410.003** |
| 24/29 | 24/29 | **1.410.004** |
| 29/32 | 14/23 | **1.410.005** |
| 29/32 | 19/26 | **1.410.006** |
| 29/32 | 29/32 | **1.410.007** |

**Splash heads,** straight, made of borosilicate glass

***Têtes de distillation droite avec ampoule de garde,** en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.420.000** |
| 19/26 | 19/26 | **1.420.001** |
| 24/29 | 19/26 | **1.420.002** |
| 24/29 | 24/29 | **1.420.003** |
| 29/32 | 29/32 | **1.420.004** |

**Splash heads,** bent, made of borosilicate glass

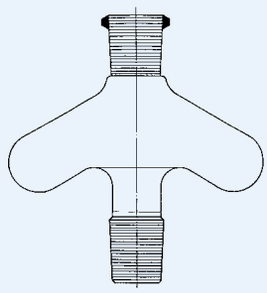
***Têtes de distillation coudée avec ampoule de garde,** en verre borosilicaté*

| Vert. cone<br>*Cône femelle*<br>ST | Side cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.425.001** |
| 19/26 | 14/23 | **1.425.002** |
| 19/26 | 19/26 | **1.425.003** |
| 24/29 | 19/26 | **1.425.004** |
| 24/29 | 24/29 | **1.425.005** |
| 29/32 | 19/26 | **1.425.006** |
| 29/32 | 29/32 | **1.425.007** |

**Distilling adapter,** 150 ml, PRECISO, to be placed onto rotary evaporators , made of borosilicate glass

***Adaptateur de distillation pour évaporateur rotatif,*** *150 ml, en verre borosilicaté*

| Cone | Socket | Order No. |
|---|---|---|
| *Cône mâle* | *Cône femelle* | *N° de code* |
| ST | ST | |
| 29/32 | 29/32 | **1.430.150** |



**1.430.150**

**Rotary evaporator safety trap, anti-foaming trap,** PRECISO, to be placed between rotary evaporating flasks and condenser for use with evaporators. Use where foaming is likely to occur. Relieves superheating and bumping problems, made of borosilicate glass

***Piège de sécurité pour évaporateur rotatif,*** *en verre borosilicaté, anti-moussant, pour montage entre le ballon et le réfrigérant, avec rodage RIN 29/32*

| Cone | Socket | Order No. |
|---|---|---|
| *Cône mâle* | *Cône femelle* | *N° de code* |
| ST | ST | |
| 29/32 | 29/32 | **1.430.200** |



**1.430.200**

**Microliter-pipettes, WITOPET EP Digital**



**Microliter-pipettes, WITOPET Digital**
**conformity certified**
**for order informations see page 250**

**Liquid Handling by**
witeg GERMANY

## Stirrer compressed air

Perfect function even at low pressures > 0,1 bar. Vibration-free operation. With oiler-head to dispense oil dripwise when pressing the button. The air stream distributes the oil. The compressed air can be seized and can stream a way through a tube to reduce noise. Types RO 2, RO 3, RO 4 can be equipped with a tachometer for perfect reproduction in analytical test series. All stirrers can be regulated from 0 to maximum speed via air flow or pressure. The flowing pressure should be kept constant by a pressure reduction valve and should be as low as possible to reduce speed instabilities by pre-pressure variations. The special oilers in form of a adapter or a mounted version are manually operated and deliver a drop of oil on pressing the button. 1-2 drops per day are sufficient. The attached oiler must be used concerning stirrers with sized air (Rx2, Rx3) and with tachometers (Rx4, Rx5).
For permanent operation we recommend an automatically working oiler, which simultaneouosly cares for the maintenance of the apparatus. All stirrers are made of aluminum and are available in stainless steeel on demand. Tachometers and oilers are made of light metal.

*Moteur d'agitation à air-comprimé, même pour travaux à basses pressions >0.1 bar. Exempt de vibration. A tête lubrifiée qui distribue des gouttelettes d'huile quand le bouton est actionné. Le flux d'air distribue l'huile. Les types RO 2, RO 3 et RO 4 peuvent être équipés d'un tachymètre assurant une perfecte reproduction des analyses en série. Les lubrificateurs spéciaux sous forme d'un adaptateur ou d'une version montée, sont à fonctionnement manuel et délivrent une goutte d'huile par pression du bouton (1 à 2 gouttelettes/jour). Le lubrificateur annexée doit être utilisé avec les agitateurs Rx2 et Rx3 ainsi qu'avec les tachymètres Rx4 et Rx5. Pour une opération continue, nous recommandons un lubrificateur automatique. Tous les agitateurs sont en aluminium et sont aussi disponibles sur demande en acier inoxydable. Les tachymètres et les lubrificateurs sont en métal léger*

| **Technical Data** | | ***Spécifications techniques*** | |
|---|---|---|---|
| **Stirrer shaft at 6 bar P(W):** | **160** | ***Tige d'agitation à bar P(W):*** | ***160*** |
| **Operating pressure P(bar):** | **0.1-6** | ***Pression d'opération P(bar):*** | ***0.1-6*** |
| **Material of housing:** | **Alu + V4A** | ***Boitier:*** | ***Alu + V4A*** |
| **Holding tube:** | **metal coated** | ***Tube de support:*** | ***en métal traité*** |
| **Hose connection:** | **9 mm** | ***Raccord de tuyau:*** | ***9 mm*** |
| **Housing Ø:** | **38 mm** | ***Ø du boitier:*** | ***38 mm*** |

**Type RO 1**
For media with low viscosity and for small quantities (up to 2 l), according to the type of the stirrer blade, high speed range, low torque. Speed range 800 rpm, total length 120 mm, without epicyclic (planetary) gear, operating pressure 0.1-6 bar.
*Destiné pour des milieux à basse viscosité et pour de petites quantités (jusqu'à 2 litres), selon le type de tige d'agitation. Vitesse 800 t/min. Longueur totale 120 mm, sans engrenage épicyclique (planétaire), pression 0.1-6 bar*

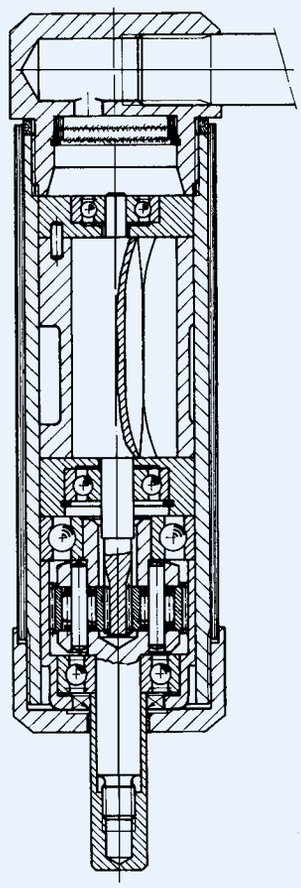
**Type RO 2**
For media with medium viscosity and for quantities up to 20 l, according to the type of the stirrer blade, medium speed range, medium torque, deliverable also with conical shaft which enables the use of a chuck (Nr. 1.445.001). Speed range 1950 rpm, total length 155 mm, single planetary gear, operating pressure 0.2-6 bar.
*Destiné pour des milieux à moyenne viscosité et pour de petites quantités (jusqu'à 20 litres), selon le type de tige d'agitation. Disponible aussi acec tige conique pour utilisation du mandrin 1.445.001. Vitesse 1950 t/min. Longueur totale 155 mm, simple engrenage planétaire, pression 0.2-6 bar*

**Type RO 3**
For media with viscosity, high torque, low speed range. Speed range 700 rpm, total length 190 mm, double planetary gear, operating pressure 0.3-6 bar.
*Destiné pour des milieux visqueux. Vitesse 700 t/min. Longueur totale 190 mm, double engrenage planétaire, pression 0.3-6 bar*

**Type RO 4**
For media with highest viscosity, very high torque, drive which can be used universally for many kinds of laboratory work, for example special drives for worm conveyors, autoclaves, rotary film evaporators. Speed range 300 rpm, total length 225 mm, triple planetary gear, operating pressure 0.3-6 bar.
*Destiné pour des milieux à haute viscosité et utilisé par. ex. sur des convoyeurs, autoclaves, évaporateurs rotatifs à film. Vitesse 300 t/min. Longueur totale 225 mm, pression 0.3-6 bar*

**Stirrer compressed air** *Moteurs d'agitation à air-comprimé*

| Type<br>*Type* | Order No.<br>*N° de code*<br>RO 1 | Order No.<br>*N° de code*<br>RO 2 | Order No.<br>*N° de code*<br>RO 3 | Order No.<br>*N° de code*<br>RO 4 |
|---|---|---|---|---|
| AL, standard<br>*version standard en aluminium* | 1.441.001 | 1.442.001 | 1.443.001 | 1.444.001 |
| V4A, standard<br>*version standard en acier inox V4A* | 1.441.002 | 1.442.002 | 1.443.002 | 1.444.002 |
| AL, pressure reduction valve<br>*version en aluminium avec vanne de réduction* | 1.441.003 | 1.442.003 | 1.443.003 | 1.444.003 |
| V4A, pressure reduction valve<br>*version en acier inox V4A avec vanne de réduction* | 1.441.004 | 1.442.004 | 1.443.004 | 1.444.004 |
| AL, oiler adapter<br>*adaptateur de lubrificateuren aluminium* | 1.441.005 | 1.442.005 | 1.443.005 | 1.444.005 |
| AL, oiler adapter, pressure reduction valve<br>*adaptateur de lubrificateur en aluminium avec vanne réductrice de pression* | 1.441.006 | 1.442.006 | 1.443.006 | 1.444.006 |
| AL, sized air<br>*version en aluminium à air réglé* | 1.441.007 | 1.442.007 | 1.443.007 | 1.444.007 |
| V4A, sized air<br>*version en acier inox V4A á air réglé* | 1.441.008 | 1.442.008 | 1.443.008 | 1.444.008 |
| AL, sized air pressure reduction valve<br>*version en aluminium à air réglé avec vanne réductrice de pression* | 1.441.009 | 1.442.009 | 1.443.009 | 1.444.009 |
| V4A, sized air pressure reduction valve<br>*version en acier inox V4A à air réglé avec vanne réductrice de pression* | 1.441.010 | 1.442.010 | 1.443.010 | 1.444.010 |
| AL, sized air, mount oiler<br>*version en aluminium à air réglé, à lubrificateur* | 1.441.011 | 1.442.011 | 1.443.011 | 1.444.011 |
| V4A, sized air, mount oiler<br>*version en acier inox à air réglé, à lubrificateur* | 1.441.012 | 1.442.012 | 1.443.012 | 1.444.012 |
| AL, sized air, mount oiler pressure reduction valve<br>*version en aluminium à air réglé, à lubrificateur avec vanne réductrice de pression* | 1.441.013 | 1.442.013 | 1.443.013 | 1.444.013 |
| V4A, sized air, mount oiler pressure reduction valve<br>*version en acier inoxydable à air réglé, à lubrificateur avec vanne réductrice de pression* | 1.441.014 | 1.442.014 | 1.443.014 | 1.444.014 |
| AL, tachometer<br>*Tachymètre en aluminium* | - | 1.442.015 | 1.443.015 | 1.444.015 |
| AL, tachometer pressure reduction valve<br>*Tachymètre en aluminium avec vanne réductrice de pression* | - | 1.442.016 | 1.443.016 | 1.444.016 |
| AL, tachometer, mount oiler<br>*Tachymètre en aluminium avec lubrificateur* | - | 1.442.017 | 1.443.017 | 1.444.017 |
| AL, tachometer, mount oiler pressure reduction valve<br>*Tachymètre en aluminium avec vanne réductrice de pression et lubrificateur* | - | 1.442.018 | 1.443.018 | 1.444.018 |





1.445.000 / 010



1.445.001

1.445.002

1.445.006



1.445.100



1.445.30*



1.445.5**



1.450.***



1.452.***



1.455.***

**Acessories for „ROTEX“** — *Acessoires pour „ROTEX“*

| | Order No.<br>*N° de code* |
|---|---|
| Flexible coupling for stirrers between motor and stirrer shaft chucking breadth up to 8 mm length 70 mm<br>*Accouplement flexible pour moteurs d'agitation entre le moteur et la tige d'agitation de mandin jusqu'à 8mm, longueur 70 mm* | **1.445.000** |
| Chuck chromed, chucking breadth 0-8 mm<br>*Mandrin chromé, ouverture 0-8 mm* | **1.445.001** |
| Tubing PVC sheated with tissue layer inside 13/9 x 2mm<br>*Tuyau en PVC avec revêtement en tissu, dia. int. 13/9 x 2 mm* | **1.445.002** |
| Pneumatic quick coupling made of brass, enables easy coupling and coupling off of tube while the inflow of compressed air is stopped at the same time<br>*Accouplement rapide pneumatique en laiton, pour utilisation facile du tuyau pendant que le flux d'air comprimé s'arrête en même temps* | **1.445.003** |
| Socket for quick coupling with thread suitable for the stirrer, with side tube for quick coupling<br>*Raccord pour accouplement rapide à filetage pour l'agitateur, avec olive* | **1.445.004 D** |
| Hose clip (tube clamp) for fixing of tube<br>*Pince pour tube* | **1.445.005** |
| Connector, angled, for quick couplings<br>*Raccord angulaire, pour accouplements rapides* | **1.445.006** |
| Flexible coupling for stirrers between motor and stirrer shaft chucking breadth up to 10 mm length 70 mm<br>*Accouplement flexible pour agitateurs entre le moteur et la tige d'agitation, pour mandrin jusqu'à 10 mm, longueur 70mmm* | **1.445.010** |

**Stirrer shafts for „ROTEX“** made of stainless steel V2A-18/8 — ***Tiges d'agitation pour moteurs „ROTEX“*** *en acier inoxydable V2A-18/8*

| Stirrer blade<br>*Pâles d'agitation*<br>mm | Shaft Ø<br>*Ø de tige*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 80 | 8 | 550 | **1.445.100** |
| 60/15 | 8 | 150 | **1.445.300** |
| 60/15 | 8 | 350 | **1.445.301** |
| 100/24 | 8 | 320 | **1.445.302** |
| 100/24 | 8 | 550 | **1.445.303** |

**Flexible couplings for stirrers** between motor and stirrer shaft, made of PTFE/Polyamid — ***Accouplements flexibles*** *pour agitateurs, entre le moteur et la tige d'agitation, en PTFE/Polyamide*

| For shaft Ø<br>*Pour tiges*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 8 | **1.445.500** |
| 10 | **1.445.510** |
| 14 | **1.445.514** |
| 16 | **1.445.516** |

**Stirring guides,** bore of tube, interchangeable, bearing surface fire-polished — ***Guides d'agitation, interchangeable, à surface polie***

| PK-bearing-length<br>*Longueur du guide d'agitation*<br>mm | Extension | Order No.<br>*N° de code*<br>PK 10 mm | Order No.<br>*N° de code*<br>PK 14 mm | Order No.<br>*N° de code*<br>PK 16 mm |
|---|---|---|---|---|
| 75 | 1 | **1.450.000** | **1.450.014** | **1.450.016** |
| 65 (HA) | 1 | **1.451.000** | **1.451.014** | **1.451.016** |
| 75 | 2 | **1.452.000** | **1.452.014** | **1.452.016** |

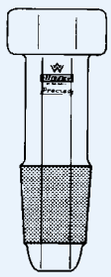
**Stirrer guides,** with ST-cones — ***Guides d'agitation en verre,*** *à rodage conique normalisé*

| Cone<br>*Rodage mâle*<br>ST | Bore of tube<br>*Orifice Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 19/26 | 10 | **1.455.019** |
| 24/29 | 10 | **1.455.024** |
| 29/32 | 10 | **1.455.029** |

**Stirrer guides,** with fused-on stirrer bearing

***Guides d'agitation,*** *en verre borosilicaté pour agitateur, à rodage conique normalisé*

| Cone<br>*Rodage mâle*<br>ST | Bore of tube<br>*Orifice Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 24/29 | 10 | **1.460.024** |
| 29/32 | 10 | **1.460.029** |
| 45/40 | 10 | **1.460.045** |



**1.460.*****

**GTS vacuum stirrer guides**
with PK 10 glass-insert and screw cap GL 25

***Guides d'agitation pour vide,*** *en verre borosilicaté à rodage conique normalisé avec tube intérieur en verre de 10 et bouchon à vis de fixation GL25 pour tige de 10 mm*

| Cone<br>*Rodage mâle*<br>ST | PK | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 24/29 | 10 | 25 | **1.467.024** |
| 29/32 | 10 | 25 | **1.467.029** |
| 45/40 | 10 | 25 | **1.467.045** |

**Spare parts /** *Pièces de rechange:*

| | |
|---|---|
| Glas part, ST 24/29 - GL 25 / *Partie en verre, ST 24/29 - GL 25* | **1.467.701** |
| Glas part, ST 29/32 - GL 25 / *Partie en verre, ST 29/32 - GL 25* | **1.467.702** |
| Glas part, ST 45/40 - GL 25 / *Partie en verre, ST 45/40 - GL 25* | **1.467.703** |
| Stirrer guide / *Guide d'agitation* | **1.467.704** |
| Screw cap GL 25 / *Bouchon à vis GL25* | **1.467.706** |



**1.467.*****

**GTS vacuum stirrer guides**
with PTFE-insert and interchangeable PTFE-vacuum seal and screw cap GL 25

***Guides d'agitation pour vide,*** *en verre borosilicaté à rodage conique normalisé avec tube intérieur en Téflon de 10, joint en téflon et bouchon à vis de fixation GL25 pour tige de 10 mm*

| Cone<br>*Rodage mâle*<br>ST | Bore of tube<br>*Orifice Ø*<br>mm | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 24/29 | 10.1 | 25 | **1.468.024** |
| 29/32 | 10.1 | 25 | **1.468.029** |
| 45/40 | 10.1 | 25 | **1.468.045** |

**Spare parts /** *Pièces de rechange:*

| | |
|---|---|
| Glas part, ST 24/29 - GL 25 / *Partie en verre, ST 24/29 - GL 25* | **1.468.001** |
| Glas part, ST 29/32 - GL 25 / *Partie en verre, ST 29/32 - GL 25* | **1.468.002** |
| Glas part, ST 45/40 - GL 25 / *Partie en verre, ST 45/40 - GL 25* | **1.468.003** |
| Stirrer guide / *Guide d'agitation* | **1.468.004** |
| PTFE-vacuum seal / *Joint en PTFE* | **1.468.005** |
| Screw cap GL 25 / *Bouchon à vis GL25* | **1.468.006** |



**1.468.*****

**Stirrer adapters Witorex**
With PTFE stirrer guide and 2 sealing sets which can be used for pressure and vacuum operation, depending on their arrangement. All parts are exchangeable. The PTFE-cone can be screwed off and exchanged by other cone sizes. The shaft is automatically placed into the central position by the 2 sealing sets. For use with glass or metal shafts. Needs no grease

***Guide d'agitation Witorex***
*en Téflon avec 2 kits de serrage, pour utilisation sous vide ou sous pression, selon leur utilisation. Toutes les pièces sont interchangeables. Le cône en PTFE peut être dévissé et remplacé par une autre taille de rodage. La tige d'agitation est centrée automatiquement gâce aux 2 kits de serrage. Utilisation avec des tiges en verre ou en acier. Pas de graissage nécessaire*

| Cone<br>*Rodage mâle*<br>ST | Shaft Ø<br>*Ø de tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 29/32 | 8 | **1.469.001** |
| 45/40 | 8 | **1.469.002** |
| 29/32 | 10 | **1.469.011** |
| 45/40 | 10 | **1.469.012** |
| 29/32 | 16 | **1.469.021** |
| 45/40 | 16 | **1.469.022** |



**1.469.*****

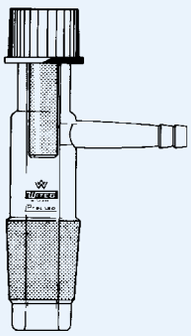


1.470.***

**Stirrer guides**
with Polypropylene (PP) insert 8 mmØ and screw cap GL 25 made of Melamin

***Guides d'agitateur à rodage conique,*** *en verre borosilicaté avec guide ntérieur en polypropylène (PP) de dia. 8 mm et bouchon à vis GL25 en mélamine*

| Cone<br>*Rodage mâle*<br>ST | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 24/29 | 25 | **1.470.024** |
| 29/32 | 25 | **1.470.029** |
| **Spare parts /** *Pièces de rechange:* | | |
| Glas part, ST 24/29 - GL 25 / *Partie en verre, ST 24/29 - GL 25* | | **1.470.001** |
| Glas part, ST 29/32 - GL 25 / *Partie en verre, ST 29/32 - GL 25* | | **1.470.002** |
| Stirrer guide, made of Polypropylene (PP) / *Guide d'agitateur, en PP* | | **1.470.003** |
| Viton O-ring seal / *Joint en viton* | | **1.470.004** |
| Screw cap GL 25 / *Bouchon à vis GL 25* | | **1.470.005** |



1.475.***

**GTS vacuum stirrer guides**
with cooling jacket and PTFE-insert with interchangeable PTFE-vacuum seal and screw cap GL 25 of Melamin

***Guides d'agitateur sous vide*** *à manteau de refroidissement et à rodage conique, en verre borosilicaté et avec guide en PTFE y compris joint de dia. int. de 10 mm et bouchon à vis GL25 en mélamine*

| Cone<br>*Rodage mâle*<br>ST | Bore of tube<br>*Orifice Ø*<br>mm | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 24/29 | 10.1 | 25 | **1.475.024** |
| 29/32 | 10.1 | 25 | **1.475.029** |
| 45/40 | 10.1 | 25 | **1.475.045** |
| **Spare parts /** *Pièces de rechange:* | | | |
| Glas part, ST 24/29 - GL 25 / *Partie en verre, ST 24/29 - GL 25* | | | **1.475.000** |
| Glas part, ST 29/32 - GL 25 / *Partie en verre, ST 29/32 - GL 25* | | | **1.475.001** |
| Glas part, ST 45/40 - GL 25 / *Partie en verre, ST 45/40 - GL 25* | | | **1.475.002** |
| Stirrer guide, PTFE / *Guide d'agitateur, en PTFE* | | | **1.475.003** |
| PTFE-vacuum seal / *Joint pour vide en PTFE* | | | **1.475.004** |
| Screw cap GL 25 / *Bouchon à vis GL 25* | | | **1.475.005** |



1.480.***

**Stirrer shafts,** ground and polished, with coupling pivot, or with GL 10 instead of coupling pivot

***Tiges d'agitation,*** *avec surface rodée et polie et à pivot d'accouplement standard ou avec filetage GL 10*

| Ground and polished zone<br>Length x Ø<br>*zone rodée et polie*<br>*Longueur x Ø*<br>mm | Coupling pivot<br>Length x Ø<br>*Pivot d'accouplement*<br>*Longueur x Ø*<br>mm | Sealing pivot<br>Length x Ø<br>*Pivot de fermeture*<br>*Longueur x Ø*<br>mm | With coupling pivot<br>*Avec pivot d'accouplement* | With GL instead coupling pivot<br>*Avec pivot à filetage GL* |
|---|---|---|---|---|
| 160 x 10 | 40 x 8-9 | 60 x 8-9 | **1.480.000** | **1.480.000 GL** |
| 180 x 14 | 40 x 8-9 | 60 x 10-11 | **1.480.014** | - |
| 180 x 16 | 40 x 8-9 | 60 x 12-13 | **1.480.016** | **1.480.016 GL** |



1.482.***



1.483.4**

**Stirrers,** with blade, with ground and polished shaft with coupling pivot, or with GL instead of coupling pivot

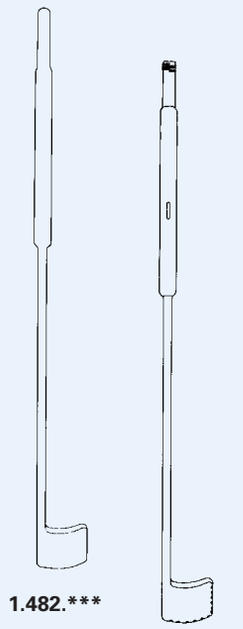
***Tiges d'agitation à pâle,*** *avec surface rodée et polie et à pivot d'accouplement standard ou avec filetage GL*

| Length x Ø shaft<br>*Longueur x Ø de tige*<br>mm | Screw thread<br>*Filetage*<br>GL | Fits to<br>*pour montage sur rodages*<br>ST | With coupling pivot<br>*Avec pivot d'accouplement* | With GL instead coupling pivot<br>*Avec pivot à filetage GL* |
|---|---|---|---|---|
| 240 x 10 | 10 | 19/26 | **1.482.000** | **1.483.400** |
| 260 x 10 | 10 | 19/26 | **1.482.002** | **1.483.402** |
| 270 x 10 | 10 | 29/32 | **1.482.003** | **1.483.403** |
| 285 x 10 | 10 | 29/32 | **1.482.005** | **1.483.405** |
| 305 x 10 | 10 | 29/32 | **1.482.008** | **1.483.408** |
| 320 x 10 | 10 | 19/26 | **1.482.010** | **1.483.410** |
| 350 x 10 | 10 | 19/26 | **1.482.011** | **1.483.411** |
| 350 x 10 | 10 | 29/32 | **1.482.012** | **1.483.412** |
| 390 x 10 | 10 | 19/26 | **1.482.016** | **1.483.416** |

**Stirrers,** with blade, with ground and polished shaft with coupling pivot, or with GL instead of coupling pivot

***Tiges d'agitation à pâle,*** *avec surface rodée et poli avec pivot d'accouplement standard ou avec pivot à vis GL*

| Length x Ø shaft<br>*Longueur x Ø de tige*<br>mm | Screw thread<br>*Filetage*<br>GL | Fits to<br>*pour montage sur rodages*<br>ST | With coupling pivot<br>*Avec pivot d'accouplement* | With GL instead coupling pivot<br>*Avec pivot à filetage GL* |
|---|---|---|---|---|
| 400 x 10 | 10 | 29/32 | **1.482.017** | **1.483.417** |
| 420 x 10 | 10 | 19/26 | **1.482.019** | **1.483.419** |
| 420 x 10 | 10 | 29/32 | **1.482.020** | **1.483.420** |
| 450 x 10 | 10 | 19/26 | **1.482.022** | **1.483.422** |
| 450 x 16 | 14 | 45/40 | **1.482.028** | **1.483.428** |
| 470 x 10 | 10 | 19/26 | **1.482.030** | **1.483.430** |
| 480 x 10 | 10 | 29/26 | **1.482.031** | **1.483.431** |
| 480 x 16 | 14 | 45/40 | **1.482.035** | **1.483.435** |
| 520 x 10 | 10 | 29/32 | **1.482.038** | **1.483.438** |
| 520 x 16 | 14 | 45/40 | **1.482.040** | **1.483.440** |
| 550 x 10 | 10 | 29/32 | **1.482.042** | **1.483.442** |
| 550 x 16 | 14 | 45/40 | **1.482.044** | **1.483.444** |
| 580 x 16 | 14 | 45/40 | **1.482.048** | **1.483.448** |
| 600 x 16 | 14 | 45/40 | **1.482.050** | **1.483.450** |
| 640 x 16 | 14 | 45/40 | **1.482.055** | **1.483.455** |
| 680 x 16 | 14 | 45/40 | **1.482.058** | **1.483.458** |
| 720 x 16 | 14 | 45/40 | **1.482.062** | **1.483.462** |
| 750 x 16 | 14 | 45/40 | **1.482.064** | **1.483.464** |
| 800 x 16 | 14 | 45/40 | **1.482.068** | **1.483.468** |
| 850 x 16 | 14 | 45/40 | **1.482.074** | **1.483.474** |
| 900 x 16 | 14 | 45/40 | **1.482.076** | **1.483.476** |
| 950 x 16 | 14 | 45/40 | **1.482.078** | **1.483.478** |

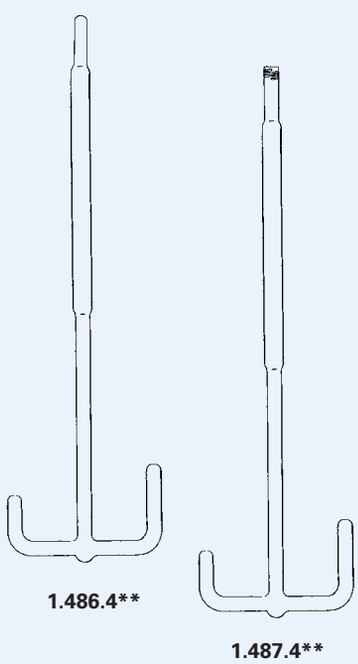


**1.482.*** **1.483.4****

**Anchor stirrers, for flasks of 250 - 10000 ml,** with ground and polished shaft with coupling pivot, or with GL instead of coupling pivot

***Tiges d'agitation à ancre,*** *avec surface rodé et poli, pour flacons de 250 à 10000 ml, avec pivot d'accouplement standard ou avec pivot à vis GL*

| Length x Ø shaft<br>*Longueur x Ø de tige*<br>mm | Screw thread<br>*Filetage*<br>GL | Fits to<br>*pour montage sur rodages*<br>ST | KF/LF | With coupling pivot<br>*Avec pivot d'accouplement* | With GL instead coupling pivot<br>*Avec pivot à filetage GL* |
|---|---|---|---|---|---|
| 285 x 10 | 10 | 19/26 | -/60 | **1.486.409** | **1.487.409** |
| 320 x 10 | 10 | 19/26 | -/60 | **1.486.410** | **1.487.410** |
| 350 x 10 | 10 | 19/26 | -/60 | **1.486.414** | **1.487.414** |
| 390 x 10 | 10 | 19/26 | -/60 | **1.486.415** | **1.487.415** |
| 400 x 10 | 10 | 29/32 | 25/100 | **1.486.417** | **1.487.417** |
| 420 x 10 | 10 | 19/26 | -/60 | **1.486.419** | **1.487.419** |
| 420 x 10 | 10 | 29/32 | 25/100 | **1.486.420** | **1.487.420** |
| 450 x 10 | 10 | 19/26 | -/60 | **1.486.422** | **1.487.422** |
| 450 x 10 | 10 | 29/32 | 50/150 | **1.486.430** | **1.487.430** |
| 480 x 10 | 10 | 29/32 | 25/100 | **1.486.431** | **1.487.431** |
| 480 x 10 | 10 | 19/26 | -/60 | **1.486.432** | **1.487.432** |
| 480 x 16 | 14 | 45/40 | 50/150 | **1.486.436** | **1.487.436** |
| 520 x 10 | 10 | 29/32 | 25/100 | **1.486.438** | **1.487.438** |
| 520 x 16 | 14 | 45/40 | 25/120 | **1.486.440** | **1.487.440** |
| 550 x 10 | 10 | 29/32 | 25/100 | **1.486.442** | **1.487.442** |
| 560 x 16 | 14 | 45/40 | 25/120 | **1.486.444** | **1.487.444** |
| 580 x 10 | 10 | 29/32 | 25/100 | **1.486.447** | **1.487.447** |
| 580 x 16 | 14 | 45/40 | 25/120 | **1.486.448** | **1.487.448** |
| 580 x 16 | 14 | 45/40 | 50/150 | **1.486.449** | **1.487.449** |
| 600 x 10 | 10 | 29/32 | 25/100 | **1.486.450** | **1.487.450** |
| 600 x 16 | 14 | 45/40 | 25/120 | **1.486.451** | **1.487.451** |
| 600 x 16 | 14 | 45/40 | 25/120 | **1.486.452** | **1.487.452** |
| 640 x 16 | 14 | 45/40 | 25/120 | **1.486.455** | **1.487.455** |
| 640 x 16 | 14 | 45/40 | 50/150 | **1.486.4569** | **1.487.456** |



**1.486.4** **1.487.4****

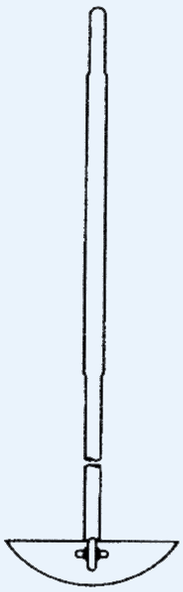


**1.487.1****

**Stirrers with collapsible PTFE paddles,** with ground and polished shaft with coupling pivot, or with GL instead of coupling pivot

***Tiges d'agitation à ailettes en PTFE,*** *avec surface rodée et poli avec pivot d'accouplement standard ou avec pivot à vis GL*

| Length x Ø shaft<br>*Longueur x Ø de tige*<br>mm | Paddle<br>*Ailettes*<br>mm | Screw thread<br>*Filetage*<br>GL | Fits to<br>*pour montage sur rodages*<br>ST | With coupling pivot<br>*Avec pivot d'accouplement* | With GL instead coupling pivot<br>*Avec pivot à filetage GL* |
|---|---|---|---|---|---|
| 240 x 10 | 50 | 10 | 19/26 | **1.487.100** | **1.487.200** |
| 260 x 10 | 50 | 10 | 19/26 | **1.487.102** | **1.487.202** |
| 270 x 10 | 50 | 10 | 29/32 | **1.487.103** | **1.487.203** |
| 285 x 10 | 50 | 10 | 29/32 | **1.487.105** | **1.487.205** |
| 305 x 10 | 90 | 10 | 29/32 | **1.487.108** | **1.487.208** |
| 320 x 10 | 50 | 10 | 19/26 | **1.487.110** | **1.487.210** |
| 350 x 10 | 50 | 10 | 29/32 | **1.487.111** | **1.487.211** |
| 350 x 10 | 90 | 10 | 29/32 | **1.487.112** | **1.487.212** |
| 350 x 10 | 50 | 10 | 19/26 | **1.487.114** | **1.487.214** |
| 390 x 10 | 50 | 10 | 19/26 | **1.487.116** | **1.487.216** |
| 400 x 10 | 50 | 10 | 29/32 | **1.487.117** | **1.487.217** |
| 400 x 10 | 90 | 10 | 29/32 | **1.487.118** | **1.487.218** |
| 420 x 10 | 50 | 10 | 19/26 | **1.487.119** | **1.487.219** |
| 420 x 10 | 50 | 10 | 29/32 | **1.487.120** | **1.487.220** |
| 420 x 10 | 50 | 10 | 29/32 | **1.487.121** | **1.487.221** |
| 450 x 10 | 50 | 10 | 19/26 | **1.487.122** | **1.487.222** |
| 480 x 10 | 50 | 10 | 29/32 | **1.487.131** | **1.487.231** |
| 480 x 10 | 90 | 10 | 29/32 | **1.487.132** | **1.487.232** |
| 510 x 10 | 50 | 10 | 19/26 | **1.487.137** | **1.487.237** |
| 560 x 10 | 50 | 10 | 29/32 | **1.487.141** | **1.487.241** |
| 560 x 10 | 90 | 10 | 29/32 | **1.487.142** | **1.487.242** |



**1.488.1****

**Stirrers with lateral PTFE stirrer blade,** with ground and polished shaft with coupling pivot, or with GL instead of coupling pivot

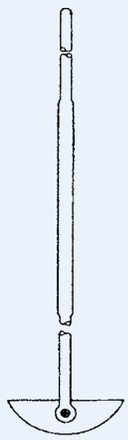
***Tiges d'agitation à pâle latérale en PTFE,*** *avec surface rodée et poli avec pivot d'accouplement standard ou avec pivot à vis GL*

| Length x Ø shaft<br>*Longueur x Ø de tige*<br>mm | Blade<br>*Pâles*<br>mm | Screw thread<br>*Filetage*<br>GL | Fits to<br>*pour montage sur rodages*<br>ST | With coupling pivot<br>*Avec pivot d'accouplement* | With GL instead coupling pivot<br>*Avec pivot à filetage GL* |
|---|---|---|---|---|---|
| 305 x 10 | 55 | 10 | 29/32 | **1.488.108** | **1.488.208** |
| 350 x 10 | 55 | 10 | 29/32 | **1.488.112** | **1.488.212** |
| 350 x 10 | 90 | 10 | 29/32 | **1.488.113** | **1.488.213** |
| 400 x 10 | 55 | 10 | 29/32 | **1.488.117** | **1.488.217** |
| 400 x 10 | 90 | 10 | 29/32 | **1.488.118** | **1.488.218** |
| 420 x 10 | 55 | 10 | 29/32 | **1.488.120** | **1.488.220** |
| 420 x 10 | 90 | 10 | 29/32 | **1.488.121** | **1.488.221** |
| 450 x 10 | 55 | 10 | 29/32 | **1.488.122** | **1.488.222** |
| 450 x 10 | 90 | 10 | 29/32 | **1.488.123** | **1.488.223** |
| 450 x 16 | 90 | 14 | 45/40 | **1.488.128** | **1.488.228** |
| 450 x 16 | 145 | 14 | 45/40 | **1.488.130** | **1.488.230** |
| 480 x 10 | 55 | 10 | 29/32 | **1.488.131** | **1.488.231** |
| 480 x 10 | 90 | 10 | 29/32 | **1.488.132** | **1.488.232** |
| 480 x 10 | 145 | 10 | 29/32 | **1.488.133** | **1.488.233** |
| 480 x 16 | 90 | 14 | 45/40 | **1.488.135** | **1.488.235** |
| 520 x 16 | 90 | 14 | 45/40 | **1.488.138** | **1.488.238** |
| 520 x 16 | 145 | 14 | 45/40 | **1.488.140** | **1.488.240** |
| 560 x 10 | 90 | 10 | 29/32 | **1.488.142** | **1.488.242** |
| 560 x 16 | 145 | 14 | 45/40 | **1.488.146** | **1.488.246** |
| 580 x 16 | 115 | 14 | 45/40 | **1.488.148** | **1.488.248** |
| 580 x 16 | 145 | 14 | 45/40 | **1.488.149** | **1.488.249** |
| 600 x 16 | 90 | 14 | 45/40 | **1.488.150** | **1.488.250** |
| 600 x 16 | 145 | 14 | 45/40 | **1.488.152** | **1.488.252** |
| 640 x 16 | 115 | 14 | 45/40 | **1.488.155** | **1.488.255** |

**Stirrers with central PTFE stirrer blade,** thereby stable attachment and uniform intermixing, with ground and polished shaft, with GL instead of coupling pivot

***Tiges d'agitation avec pâle centrale en PTFE,*** *avec surface rodée et poli avec pivot d'accouplement standard ou avec pivot à vis GL*

| Length x Ø shaft<br>*Longueur x Ø de tige*<br>mm | Blade<br>*Pâles*<br>mm | Screw thread<br>*Filetage*<br>GL | Fits to<br>*pour montage sur rodages*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 285 x 10 | 55 | 10 | 29/32 | **1.489.405** |
| 305 x 10 | 55 | 10 | 29/32 | **1.489.408** |
| 305 x 10 | 90 | 10 | 29/32 | **1.489.409** |
| 350 x 10 | 55 | 10 | 29/32 | **1.489.412** |
| 350 x 10 | 90 | 10 | 29/32 | **1.489.413** |
| 400 x 10 | 55 | 10 | 29/32 | **1.489.417** |
| 400 x 10 | 90 | 10 | 29/32 | **1.489.418** |
| 420 x 10 | 90 | 10 | 29/32 | **1.489.420** |
| 450 x 10 | 90 | 10 | 29/32 | **1.489.423** |
| 450 x 10 | 115 | 10 | 29/32 | **1.489.424** |
| 450 x 16 | 90 | 14 | 45/40 | **1.489.428** |
| 450 x 16 | 115 | 14 | 45/40 | **1.489.429** |
| 450 x 16 | 145 | 14 | 45/40 | **1.489.430** |
| 480 x 10 | 90 | 10 | 29/32 | **1.489.431** |
| 480 x 10 | 145 | 10 | 29/32 | **1.489.433** |
| 480 x 16 | 115 | 14 | 45/40 | **1.489.435** |
| 480 x 16 | 145 | 14 | 45/40 | **1.489.436** |
| 520 x 16 | 90 | 14 | 29/32 | **1.489.438** |
| 520 x 16 | 145 | 14 | 45/40 | **1.489.440** |
| 560 x 10 | 90 | 10 | 29/32 | **1.489.442** |
| 560 x 16 | 90 | 14 | 45/40 | **1.489.444** |
| 560 x 16 | 145 | 14 | 45/40 | **1.489.446** |
| 580 x 16 | 115 | 14 | 45/40 | **1.489.448** |
| 580 x 16 | 145 | 14 | 45/40 | **1.489.449** |

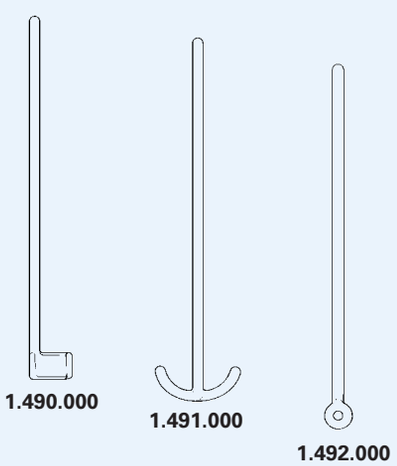


**1.489.4****

**Stirrers shafts,** 7 - 8 mm Ø, stirrer blade with curved ends. For Stirrer guide 1.470.*** fitting

***Tiges d'agitation,*** *de dia. 7-8 mm, pour utilisation sur guide d'agitation 1.470.****

| Stirrer blade<br>*Pâles de Tiges d'agitation* | Order No.<br>*N° de code* |
|---|---|
| 24 mm | **1.490.000** |
| Anchor 95 mm / *Ancre 95 mm* | **1.491.000** |
| PTFE toggle, suitable for PTFE-stirrer blade<br>*Crochet en PTFE pour pâle d'agitation* | **1.492.000** |
| PTFE spare toggle / *Crochet en PTFE de rechange* | **1.495.000** |



**1.490.000** **1.491.000** **1.492.000**

**PTFE stirrers blades and paddles**
Exchangeable for shafts with toggle.
Material thickness 2.5 mm

***Pâles et ailettes d'agitation*** *en PTFE, interchangeables pour tiges avec crochet. Epaisseur 2,5 mm*

| Breadth<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| **Blades / *Pâles*** | | |
| 24 | 50 | **1.496.050** |
| 24 | 68 | **1.496.070** |
| 24 | 90 | **1.496.090** |
| 24 | 110 | **1.496.110** |
| 35 | 125 | **1.496.125** |
| **Paddles / *Ailettes*** | | |
| 10 | 30 | **1.498.030** |
| 10 | 50 | **1.498.050** |
| 10 | 70 | **1.498.070** |
| 15 | 90 | **1.498.090** |
| 20 | 120 | **1.496.120** |
| 20 | 150 | **1.496.150** |







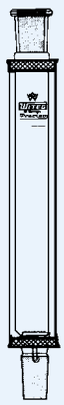

Liquid Handling on page 239

## Fractionating columns
## *Colonnes à distiller*

**Fractionating columns, acc. to Hempel,** with glass jacket, made of borosilicate glass, or with glass jacket evacuated (x.xxx.xxx E)

***Colonnes à distiller de Hempel,*** *avec manteau, à rodage mâle et femelle, en verre borosilicaté, ou avec manteau evacuée (x.xxx.xxx E)*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Effective length<br>*longueur totale*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/23 | 14/23 | 150 | - | **1.500.150** |
| 14/23 | 14/23 | 200 | **1.500.200 E** | **1.500.200** |
| 14/23 | 14/23 | 300 | - | **1.500.300** |
| 19/26 | 19/26 | 150 | - | **1.501.150** |
| 19/26 | 19/26 | 200 | - | **1.501.200** |
| 19/26 | 19/26 | 300 | - | **1.501.300** |
| 24/29 | 24/29 | 200 | - | **1.502.200** |
| 24/29 | 24/29 | 300 | - | **1.502.300** |
| 24/29 | 24/29 | 500 | - | **1.502.500** |
| 29/32 | 29/32 | 200 | **1.503.200 E** | **1.503.200** |
| 29/32 | 29/32 | 300 | **1.503.300 E** | **1.503.300** |
| 29/32 | 29/32 | 500 | **1.503.500 E** | **1.503.500** |



**1.500.*****
**-**
**1.503.*****

**Fractionating columns, acc. to Hempel,** without glass jacket, made of borosilicate glass

***Colonnes à distiller de Hempel,*** *sans manteau, à rodage mâle et femelle, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Effective length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 | 14/23 | 200 | **1.500.201** |
| 14/23 | 14/23 | 300 | **1.500.302** |
| 29/32 | 29/32 | 200 | **1.503.203** |
| 29/32 | 29/32 | 300 | **1.503.303** |
| 29/32 | 29/32 | 500 | **1.503.501** |

**Fractionating columns, acc. to Vigreux,** with glass jacket, made of borosilicate glass, or with glass jacket evacuated (x.xxx.xxx E)

***Colonnes à distiller de Vigreux,*** *avec manteau, à rodage mâle et femelle, en verre borosilicaté, ou avec manteau evacuée (x.xxx.xxx E)*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Effective length<br>*longueur totale*<br>mm | No. of Identations<br>*Nombre de plateaux* | Order No.<br>*N° de code* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 14/23 | 14/23 | 200 | 11 | **1.520.200 E** | **1.520.200** |
| 19/26 | 19/26 | 200 | 11 | - | **1.521.200** |
| 19/26 | 19/26 | 300 | 16 | - | **1.521.300** |
| 24/29 | 24/29 | 200 | 11 | - | **1.522.200** |
| 24/29 | 24/29 | 300 | 16 | - | **1.522.300** |
| 24/29 | 24/29 | 400 | 22 | - | **1.522.400** |
| 24/29 | 24/29 | 500 | 27 | - | **1.522.500** |
| 24/29 | 24/29 | 600 | 31 | - | **1.522.600** |
| 29/32 | 29/23 | 100 | 4 | - | **1.523.100** |
| 29/32 | 29/23 | 200 | 11 | - | **1.523.200** |
| 29/32 | 29/32 | 300 | 16 | **1.523.300 E** | **1.523.300** |
| 29/32 | 29/32 | 400 | 22 | **1.523.400 E** | **1.523.400** |
| 29/32 | 29/32 | 500 | 27 | **1.523.500 E** | **1.523.500** |
| 29/32 | 29/32 | 600 | 31 | **1.523.300 E** | **1.523.600** |



**1.520.*****
**-**
**1.523.*****



**1.520.*** E**
**-**
**1.523.*** E**



**1.520.*** - 1.523.*****

**Fractionating columns, acc. to Vigreux,** without glass jacket, made of borosilicate glass

***Colonnes à distiller de Vigreux,*** *sans manteau, à rodage mâle et femelle, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Effective length<br>*longueur totale*<br>mm | No. of Identations<br>*Nombre de plateaux* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/23 | 14/23 | 200 | 11 | **1.520.201** |
| 19/26 | 19/26 | 200 | 11 | **1.521.201** |
| 19/26 | 19/26 | 300 | 16 | **1.521.301** |
| 24/29 | 24/29 | 200 | 11 | **1.522.201** |
| 24/29 | 24/29 | 300 | 16 | **1.522.301** |
| 24/29 | 24/29 | 400 | 22 | **1.522.401** |
| 24/29 | 24/29 | 500 | 27 | **1.522.501** |
| 24/29 | 24/29 | 600 | 31 | **1.522.601** |
| 29/32 | 29/32 | 100 | 4 | **1.523.101** |
| 29/32 | 29/32 | 200 | 11 | **1.523.201** |
| 29/32 | 29/32 | 300 | 16 | **1.523.301** |
| 29/32 | 29/32 | 400 | 22 | **1.523.401** |
| 29/32 | 29/32 | 500 | 27 | **1.523.501** |
| 29/32 | 29/32 | 600 | 31 | **1.523.601** |

## Accessories for columns
## *Accessoires pour colonnes*



**1.540.*****

**Glass Beads,** solid, made of borosilicate glass

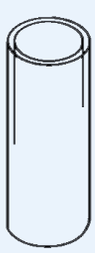
***Billes,*** *en verre borosilicaté, plein*

| Ø<br>*Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 1.5 - 2 | **1.540.002** |
| 3 | **1.540.003** |
| 4 | **1.540.004** |
| 5 | **1.540.005** |
| 6 | **1.540.006** |
| 8 | **1.540.008** |
| 10 | **1.540.010** |

**Glass wool,** cleaned, pack 100 g

***Laine de verre,*** *nettoyée en paquet de 100g*

| Order No.<br>*N° de code* |
|---|
| **1.541.000** |

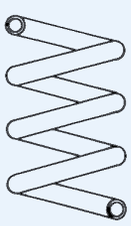


**1.550.*****

**Glass rings,** Raschig

***Anneaux de Raschig,*** *en verre*

| Outer Ø<br>*Ext. Ø*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 3 | 3 | **1.550.003** |
| 4 | 4 | **1.550.004** |
| 5 | 5 | **1.550.005** |
| 6 | 6 | **1.550.006** |
| 8 | 8 | **1.550.008** |
| 10 | 10 | **1.550.010** |



**1.552.*****

**Wilson helices,** made of glass

***Serpentins de Wilson,*** *en verre*

| Outer Ø<br>*Ext. Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 3 | **1.552.003** |
| 4 | **1.552.004** |
| 7 | **1.552.007** |

## Column heads
## *Têtes de colonne*

**Column heads,** acc. to Antlinger, for halfmicro, made of borosilicate glass

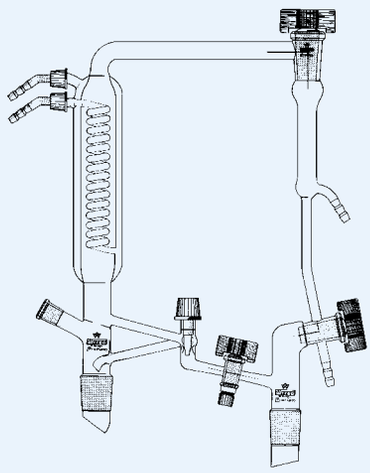
***Têtes de colonne selon Antlinger, semi-micro,*** *à cône mâle, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.600.014** |
| 19/26 | **1.600.019** |

**Column heads,** acc. to Antlinger, with PTFE-fine-dosing valve, for macro, made of borosilicate glass

***Têtes de colonne selon Antlinger, macro,*** *à cône mâle en verre borosilicaté avec robinet de dosage fin en téflon pour macro-distillation*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 24/29 | **1.610.024** |
| 29/32 | **1.610.029** |



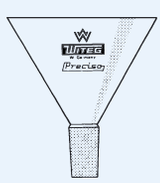
**1.600.*****
**-**
**1.610.*****

## Funnels
## *Entonnoirs*

**Funnel,** ST cone, made of borosilicate glass

***Entonnoirs à rodage conique,*** *en verre borosilicaté*

| Cone ST<br>*Cône mâle*<br>ST | Angle<br>*Angle de corps* | Outer Ø<br>*Ext. Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 | 60° | 45 | **1.650.013** |
| 14/23 | 40° | 45 | **1.650.001** |
| 14/23 | 60° | 70 | **1.650.014** |
| 19/26 | 60° | 80 | **1.650.019** |
| 24/29 | 60° | 80 | **1.650.024** |
| 29/32 | 60° | 80 | **1.650.029** |
| 29/32 | 40° | 80 | **1.650.103** |
| 29/32 | 60° | 100 | **1.650.129** |
| 29/32 | 40° | 100 | **1.650.104** |
| 29/32 | 60° | 120 | **1.650.130** |
| 29/32 | 60° | 150 | **1.650.150** |
| 45/40 | 60° | 150 | **1.650.154** |



**1.650.*****

**Funnel,** ST cone, without stopcock, one side flat, made of borosilicate glass

***Entonnoirs à rodage conique avec une face plate,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Angle<br>*Angle de corps* | Outer Ø<br>*Ext. Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 19/26 | 60° | 80 | **1.651.019** |
| 29/32 | 60° | 100 | **1.651.129** |

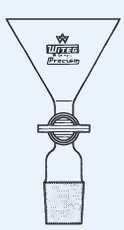


**1.651.*****

**Funnel,** ST cone and ST stopcock, with screw-thread retaining nut, made of borosilicate glass

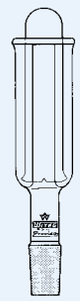
***Entonnoirs à rodage conique avec robinet intermédiaire interchangeable,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Angle<br>*Angle de corps* | Outer Ø<br>*Ext. Ø*<br>mm | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/23 | 60° | 40 | 2.5 | **1.652.014** |
| 19/26 | 60° | 50 | 4 | **1.652.019** |
| 24/29 | 60° | 70 | 4 | **1.652.024** |
| 29/32 | 60° | 90 | 6.3 | **1.652.029** |



**1.652.*****

## Tubes
### *Tubes et raccords*



1.655.***

**Safety tube,** Thistle funnel, made of borosilicate glass

***Entonnoirs de sécurité droit à rodage conique,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.655.014** |
| 19/26 | **1.655.019** |
| 24/29 | **1.655.024** |
| 29/32 | **1.655.029** |

**Drying tube,** acc. to Dr. Wünsch, made of borosilicate glass

***Tubes de séchage selon Dr. Wünsch,*** *à rodage conique, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.655.114** |
| 19/26 | **1.655.119** |
| 24/29 | **1.655.124** |
| 29/32 | **1.655.129** |
| 45/40 | **1.655.145** |



1.660.***

**Drying tube,** bent, made of borosilicate glass

***Tubes de séchage coudé,*** *à rodage conique, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.660.014** |
| 19/26 | **1.660.019** |
| 24/29 | **1.660.024** |
| 29/32 | **1.660.029** |



1.662.***

**Suction tube,** straight, made of borosilicate glass

***Raccords d'aspiration droit à rodage femelle et à olive,*** *en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.662.014** |
| 19/26 | **1.662.019** |
| 24/29 | **1.662.024** |
| 29/32 | **1.662.029** |



1.664.***

**Suction tube,** bent, made of borosilicate glass

***Raccords d'aspiration coudé à rodage femelle et à olive,*** *en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.664.014** |
| 19/26 | **1.664.019** |
| 24/29 | **1.664.024** |
| 29/32 | **1.664.029** |



1.666.***

**Suction tube,** with ST-stopcocks, straight, made of borosilicate glass

***Raccords d'aspiration droit à rodage femelle et à olive,*** *avec robinet interchangeable, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.666.014** |
| 19/26 | **1.666.019** |
| 24/29 | **1.666.024** |
| 29/32 | **1.666.029** |

**Suction tube,** straight, made of borosilicate glass

***Raccords d'aspiration droit à rodage conique et à olive,*** *en verre borosilicaté*

| Cone ST<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | 1.680.014 |
| 19/26 | 1.680.019 |
| 24/29 | 1.680.024 |
| 29/32 | 1.680.029 |



1.680.***

**Suction tube,** straight, with SVS-hose connection, made of borosilicate glass

***Raccords d'aspiration droit à rodage conique, avec olive à raccord SVS,*** *en verre borosilicaté*

| Cone ST<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | 1.680.014 S |
| 19/26 | 1.680.019 S |
| 24/29 | 1.680.024 S |
| 29/32 | 1.680.029 S |



1.680.*** S

**Suction tube,** bent, made of borosilicate glass

***Raccords d'aspiration coudé à rodage conique,*** *avec olive, en verre borosilicaté*

| Cone ST<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | 1.681.014 |
| 19/26 | 1.681.019 |
| 24/29 | 1.681.024 |
| 29/32 | 1.681.029 |



1.681.***

**Suction tube,** bent, with SVS-hose connection, made of borosilicate glass

***Raccords d'aspiration coudé à rodage conique*** *avec olive à raccord SVS, en verre borosilicaté*

| Cone ST<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | 1.681.014 S |
| 19/26 | 1.681.019 S |
| 24/29 | 1.681.024 S |
| 29/32 | 1.681.029 S |



1.681.*** S

**Suction tube,** with ST-Stopcock, bent, made of borosilicate glass

***Raccords d'aspiration coudé à rodage conique,*** *avec olive et robinet interchangeable, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | 1.682.014 |
| 19/26 | 1.682.019 |
| 24/29 | 1.682.024 |
| 29/32 | 1.682.029 |



1.682.***

**Suction tube,** with ST-Stopcock, bent, with SVS-hose connection, made of borosilicate glass

***Raccords d'aspiration coudé à rodage conique,*** *avec olive à raccord SVS et robinet interchangeable, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | 1.682.014 S |
| 19/26 | 1.682.019 S |
| 24/29 | 1.682.024 S |
| 29/32 | 1.682.029 S |



1.682.*** S



1.683.***



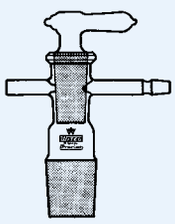
1.683.*** S



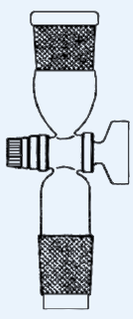
1.684.***



1.684.*** S



1.688.***



1.689.1**

**Suction tube,** with ST-Stopcock, straight, made of borosilicate glass

***Raccords d'aspiration droit à rodage conique,*** *avec olive et robinet interchangeable, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.683.014** |
| 19/26 | **1.683.019** |
| 24/29 | **1.683.024** |
| 29/32 | **1.683.029** |

**Suction tube,** with ST-Stopcock, straight, with SVS-hose connection, made of borosilicate glass

***Raccords d'aspiration droit à rodage conique,*** *avec olive à raccord SVS et robinet intercheangable, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.683.014 S** |
| 19/26 | **1.683.019 S** |
| 24/29 | **1.683.024 S** |
| 29/32 | **1.683.029 S** |

**Suction tube,** with needle valve Stopcock, bent, made of borosilicate glass

***Raccords d'aspiration coudé à rodage conique,*** *avec olive et robinet à pointeau, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.684.014** |
| 19/26 | **1.684.019** |
| 24/29 | **1.684.024** |
| 29/32 | **1.684.029** |

**Suction tube,** with needle valve Stopcock, bent, with SVS-hose connection, made of borosilicate glass

***Raccords d'aspiration coudé à rodage conique,*** *avec olive à raccord SVS et robinet à pointeau, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.684.014 S** |
| 19/26 | **1.684.019 S** |
| 24/29 | **1.684.024 S** |
| 29/32 | **1.684.029 S** |

**Vacuum control stopcock**, made of borosilicate glass

***Robinets de contrôle du vide, à rodage conique,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.688.014** |
| 19/26 | **1.688.019** |
| 24/29 | **1.688.024** |
| 29/32 | **1.688.029** |

**Intermediate adapter**, made of borosilicate glass

***Adapteurs,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 | 14/23 | 2.5 | **1.689.114** |
| 29/32 | 29/32 | 6.0 | **1.689.129** |

# Condensers
## *Réfrigérants*

**Liebig-condensers (West),** acc. to DIN 12576, PRECISO, made of borosilicate glass **(or with waterconnection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants de Liebig (West)*** *en verre borosilicaté* ***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| - | - | 160 | 1.700.160 | 1.700.160 S |
| - | - | 250 | 1.700.250 | 1.700.250 S |
| - | - | 400 | 1.700.400 | 1.700.400 S |
| 19/26 | - | 160 | 1.702.160 | 1.702.160 S |
| 19/26 | - | 250 | 1.702.250 | 1.702.250 S |
| 24/29 | - | 250 | 1.703.250 | 1.703.250 S |
| 24/29 | - | 400 | 1.703.400 | 1.703.400 S |
| 29/32 | - | 250 | 1.704.250 | 1.704.250 S |
| 29/32 | - | 400 | 1.704.400 | 1.704.400 S |
| 14/23 | 14/23 | 160 | 1.706.160 | 1.706.160 S |
| 14/23 | 14/23 | 250 | 1.706.250 | 1.706.250 S |
| 19/26 | 19/26 | 160 | 1.708.160 | 1.708.160 S |
| 19/26 | 19/26 | 250 | 1.708.250 | 1.708.250 S |
| 19/26 | 19/26 | 400 | 1.708.400 | 1.708.400 S |
| 24/29 | 24/29 | 250 | 1.709.250 | 1.709.250 S |
| 24/29 | 24/29 | 400 | 1.709.400 | 1.709.400 S |
| 29/32 | 29/32 | 250 | 1.710.250 | 1.710.250 S |
| 29/32 | 29/32 | 400 | 1.710.400 | 1.710.400 S |

**Allihn-condensers,** acc. to DIN 12581, made of borosilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants d'Allihn,*** *en verre borosilicaté* ***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| - | - | 160 | 1.720.160 | 1.720.160 S |
| - | - | 250 | 1.720.250 | 1.720.250 S |
| - | - | 400 | 1.720.400 | 1.720.400 S |
| 19/26 | - | 160 | 1.722.160 | 1.722.160 S |
| 19/26 | - | 250 | 1.722.250 | 1.722.250 S |
| 24/29 | - | 250 | 1.723.250 | 1.723.250 S |
| 24/29 | - | 400 | 1.723.400 | 1.723.400 S |
| 29/32 | - | 250 | 1.724.250 | 1.724.250 S |
| 29/32 | - | 400 | 1.724.400 | 1.724.400 S |
| 14/23 | 14/23 | 160 | 1.725.160 | 1.725.160 S |
| 14/23 | 14/23 | 250 | 1.725.250 | 1.725.250 S |
| 19/26 | 19/26 | 160 | 1.726.160 | 1.726.160 S |
| 19/26 | 19/26 | 250 | 1.726.250 | 1.726.250 S |
| 24/29 | 24/29 | 250 | 1.727.250 | 1.727.250 S |
| 24/29 | 24/29 | 400 | 1.727.400 | 1.727.400 S |
| 29/32 | 29/32 | 250 | 1.728.250 | 1.728.250 S |
| 29/32 | 29/32 | 400 | 1.728.400 | 1.728.400 S |

**Graham-condensers,** acc. to DIN 12592, made of borsilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants de Graham,*** *en verre borosilicaté* ***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| - | - | 160 | 1.730.160 | 1.730.160 S |
| - | - | 250 | 1.730.250 | 1.730.250 S |
| - | - | 400 | 1.730.400 | 1.730.400 S |
| 19/26 | - | 160 | 1.732.160 | 1.732.160 S |
| 19/26 | - | 250 | 1.732.250 | 1.732.250 S |
| 24/29 | - | 250 | 1.733.250 | 1.733.250 S |
| 24/29 | - | 400 | 1.733.400 | 1.733.400 S |
| 29/32 | - | 250 | 1.734.250 | 1.734.250 S |
| 29/32 | - | 400 | 1.734.400 | 1.734.400 S |
| 14/23 | 14/23 | 160 | 1.735.160 | 1.735.160 S |
| 14/23 | 14/23 | 250 | 1.735.250 | 1.735.250 S |
| 19/26 | 19/26 | 160 | 1.736.160 | 1.736.160 S |
| 19/26 | 19/26 | 250 | 1.736.250 | 1.736.250 S |
| 24/29 | 24/29 | 250 | 1.737.250 | 1.737.250 S |
| 24/29 | 24/29 | 400 | 1.737.400 | 1.737.400 S |
| 29/32 | 29/32 | 250 | 1.738.250 | 1.738.250 S |
| 29/32 | 29/32 | 400 | 1.738.400 | 1.738.400 S |



**1.700.*****



**1.706.*****
**-**
**1.710.*****



**1.720.*****



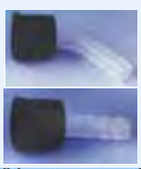
**1.725.*****
**-**
**1.728.*****



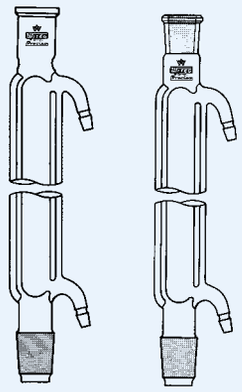
**1.730.*****



**With water connection 2 x GL 14 x.xxx.xxx S**
***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***



**With water connection 2 x GL 14 x.xxx.xxx S**
***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***



**1.739.*****

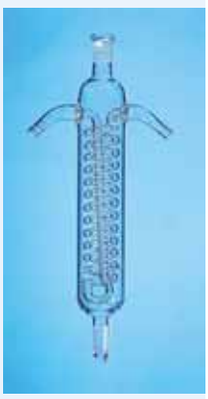
**Davis-condensers**, made of borosilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants de Davies,** en verre borosilicaté **(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 19/26 | - | 160 | **1.739.160** | **1.739.160 S** |
| 19/26 | 19/26 | 160 | **1.739.163** | **1.739.163 S** |
| 19/26 | - | 250 | **1.739.250** | **1.739.250 S** |
| 24/29 | - | 250 | **1.739.251** | **1.739.251 S** |
| 29/32 | - | 250 | **1.739.252** | **1.739.252 S** |
| 19/26 | 19/26 | 250 | **1.739.253** | **1.739.253 S** |
| 24/29 | 24/29 | 250 | **1.739.254** | **1.739.254 S** |
| 29/32 | 29/32 | 250 | **1.739.255** | **1.739.255 S** |
| 24/29 | - | 400 | **1.739.401** | **1.739.401 S** |
| 29/32 | - | 400 | **1.739.402** | **1.739.402 S** |
| 24/29 | 24/29 | 400 | **1.739.404** | **1.739.404 S** |
| 29/32 | 29/32 | 400 | **1.739.405** | **1.739.405 S** |



**With water connection 2 x GL 14 x.xxx.xxx S**
***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

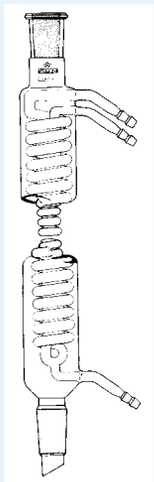


**1.740.*** - 1.744.*****

**Dimroth-condensers,** acc. to DIN 12591, made of borosilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants de Dimroth,** à un serpentin, en verre borosilicaté **(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 14/23 | 14/23 | 160 | **1.740.160** | **1.740.160 S** |
| 14/23 | 14/23 | 250 | **1.740.250** | **1.740.250 S** |
| 19/26 | 19/26 | 160 | **1.742.160** | **1.742.160 S** |
| 19/26 | 19/26 | 250 | **1.742.250** | **1.742.250 S** |
| 24/29 | 24/29 | 250 | **1.743.250** | **1.743.250 S** |
| 24/29 | 24/29 | 400 | **1.743.400** | **1.743.400 S** |
| 29/32 | 29/32 | 160 | **1.744.160** | **1.744.160 S** |
| 29/32 | 29/32 | 250 | **1.744.250** | **1.744.250 S** |
| 29/32 | 29/32 | 400 | **1.744.400** | **1.744.400 S** |



**1.750.*** - 1.752.*****

**Dimroth-condensers with 2 cooling coils**, made of borosilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants de Dimroth à 2 serpentins,** en verre borosilicaté **(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 24/29 | 24/29 | 250 | **1.750.250** | **1.750.250 S** |
| 24/29 | 24/29 | 400 | **1.750.400** | **1.750.400 S** |
| 29/32 | 29/32 | 250 | **1.752.250** | **1.752.250 S** |
| 29/32 | 29/32 | 400 | **1.752.400** | **1.752.400 S** |

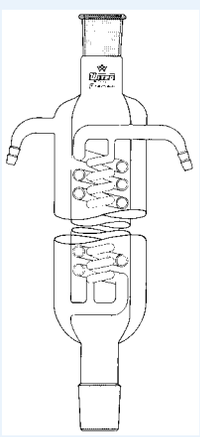


**1.755.*** - 1.756.*****

**Jacketed coil condensers,** acc. to DIN 12593, made of borosilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants à double serpentins avec chemise,** en verre borosilicaté **(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 24/29 | 24/29 | 250 | **1.755.250** | **1.755.250 S** |
| 24/29 | 24/29 | 400 | **1.755.400** | **1.755.400 S** |
| 29/32 | 29/32 | 160 | **1.756.160** | **1.756.160 S** |
| 29/32 | 29/32 | 250 | **1.756.250** | **1.756.250 S** |
| 29/32 | 29/32 | 400 | **1.756.400** | **1.756.400 S** |



**1.760.*** - 1.762.*****

**Jacketed double coil condensers**, made of borosilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants à serpentin et à chemise,** en verre borosilicaté **(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 24/29 | 24/29 | 250 | **1.760.250** | **1.760.250 S** |
| 24/29 | 24/29 | 400 | **1.760.400** | **1.760.400 S** |
| 29/32 | 29/32 | 160 | **1.762.160** | **1.762.160 S** |
| 29/32 | 29/32 | 250 | **1.762.250** | **1.762.250 S** |
| 29/32 | 29/32 | 400 | **1.762.400** | **1.762.400 S** |
| 29/32 | 29/32 | 600 | **1.762.600** | **1.762.600 S** |

**Spiral condensers**, with water connection 2 x GL 14, made of borosilicate glass

***Réfrigérants à serpentin,*** *avec raccords à vis 2 x GL 14, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Jacket length<br>*longueur du manteau*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 24/29 | 24/29 | 160 | **1.770.160** |
| 14/23 | 14/23 | 160 | **1.770.164** |
| 24/29 | 24/29 | 250 | **1.770.250** |
| 14/23 | 14/23 | 250 | **1.770.254** |
| 24/29 | 24/29 | 400 | **1.770.400** |
| 29/32 | 29/32 | 160 | **1.772.160** |
| 29/32 | 29/32 | 250 | **1.772.250** |
| 29/32 | 29/32 | 400 | **1.772.400** |



**1.770.*** - 1.772.*****

**Air condensers**, made of borosilicate glass

***Réfrigérants à air à rodage conique,*** *en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Tube length<br>*longueur du tube*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 500 | **1.780.050** |
| 19/26 | 500 | **1.782.050** |
| 19/26 | 1000 | **1.782.100** |
| 24/29 | 500 | **1.784.050** |
| 24/29 | 1000 | **1.784.100** |
| 29/32 | 500 | **1.786.050** |
| 29/32 | 1000 | **1.786.100** |

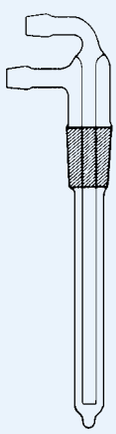


**1.780.*** - 1.786.*****

**Immersion coolers,** (Dephlegmators), made of borosilicate glass **(or with water connection 2 x GL 14 x.xxx.xxx S)**

***Réfrigérants à immersion à rodage conique,*** *en verre borosilicaté* ***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

| Cone<br>*Cône mâle*<br>ST | Eff. length<br>*Longueur efficace*<br>mm | Total length<br>*Longueur total*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>2 x GL 14 |
|---|---|---|---|---|
| 14/23 | 100 | 180 | **1.786.214** | **1.786.214 S** |
| 19/26 | 100 | 185 | **1.786.219** | **1.786.219 S** |
| 24/29 | 140 | 230 | **1.786.224** | **1.786.224 S** |
| 29/32 | 140 | 235 | **1.786.229** | **1.786.229 S** |



**1.786.2****



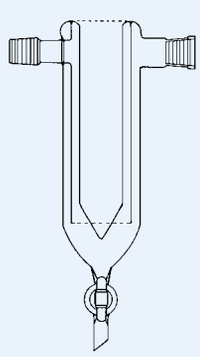
**With water connection 2 x GL 14 x.xxx.xxx S**

***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

**Cold traps (Dewar condenser),** for inner cooling, with stopcock, made of borosilicate glass

***Pièges de refroidissement, type Dewar à robinet interchangeable,*** *pour refroidissement intérieur, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Inner Ø<br>*Int. Ø*<br>mm | Outer Ø<br>*Ext. Ø*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 29/32 | 50 | 75 | 220 | **1.788.101** |
| 29/32 | 60 | 90 | 200 | **1.788.102** |
| 29/32 | 80 | 120 | 150 | **1.788.103** |
| 29/32 | 80 | 120 | 200 | **1.788.104** |



**1.788.1****

**Cold traps (Dewar condenser),** without stopcock, made of borosilicate glass

***Pièges de refroidissement, type Dewar sans robinet,*** *pour refroidissement intérieur, en verre borosilicaté*

| Cone<br>*Cône mâle*<br>ST | Inner Ø<br>*Int. Ø*<br>mm | Outer Ø<br>*Ext. Ø*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 29/32 | 50 | 75 | 220 | **1.788.201** |
| 29/32 | 60 | 90 | 200 | **1.788.202** |
| 29/32 | 80 | 120 | 150 | **1.788.203** |
| 29/32 | 80 | 120 | 200 | **1.788.204** |

**Cold traps (Dewar condenser),** without coil, made of borosilicate glass

***Pièges de refroidissement, type Dewar sans serpentin,*** *en verre borosilicaté*

| Diameter<br>*Diametre*<br>mm | Total height<br>*Hauteur total*<br>mm | Body height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 | 170 | 120 | **1.788.301** |
| 40 | 210 | 170 | **1.788.302** |
| 50 | 250 | 210 | **1.788.303** |
| 65 | 300 | 250 | **1.788.304** |



**1.788.3****



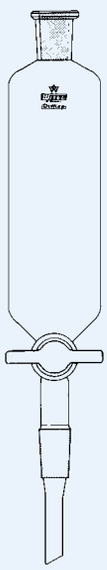
**1.788.4****

**Cold traps (Dewar condenser),** with coil, made of borosilicate glass

***Pièges de refroidissement, type Dewar avec serpentin,*** *en verre borosilicaté*

| Diameter<br>*Diametre*<br>mm | Total height<br>*Hauteur total*<br>mm | Body height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 200 | 100 | **1.788.401** |
| 60 | 250 | 140 | **1.788.402** |

## Dropping funnels
## *Ampoules cylindriques*



**1.790.*** - 1.796.***

**Dropping funnels,** cylindrical, without ressure equalizing, ungraduated, ST-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques non-graduées,*** *sans tubulure latérale, à 2 rodages et à robinet interchangeable, verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 25 | 14/23 | 14/23 | 2.5 | 14.5 | **1.790.025** |
| 50 | 14/23 | 14/23 | 2.5 | 14.5 | **1.790.050** |
| 100 | 14/23 | 14/23 | 2.5 | 14.5 | **1.790.100** |
| 250 | 14/23 | 14/23 | 4 | 18.8 | **1.790.250** |
| 50 | 19/26 | 19/26 | 2.5 | 14.5 | **1.792.050** |
| 100 | 19/26 | 19/26 | 2.5 | 14.5 | **1.792.100** |
| 250 | 19/26 | 19/26 | 4 | 18.8 | **1.792.250** |
| 500 | 19/26 | 19/26 | 4 | 18.8 | **1.792.500** |
| 50 | 24/29 | 24/29 | 2.5 | 14.5 | **1.794.050** |
| 100 | 24/29 | 24/29 | 2.5 | 14.5 | **1.794.100** |
| 250 | 24/29 | 24/29 | 4 | 18.8 | **1.794.250** |
| 500 | 24/29 | 24/29 | 4 | 18.8 | **1.794.500** |
| 1000 | 24/29 | 24/29 | 6.3 | 21.5 | **1.794.001** |
| 2000 | 24/29 | 24/29 | 6.3 | 21.5 | **1.794.002** |
| 50 | 29/32 | 29/32 | 2.5 | 14.5 | **1.796.050** |
| 100 | 29/32 | 29/32 | 2.5 | 14.5 | **1.796.100** |
| 250 | 29/32 | 29/32 | 4 | 18.8 | **1.796.250** |
| 500 | 29/32 | 29/32 | 4 | 18.8 | **1.796.500** |
| 1000 | 29/32 | 29/32 | 6.3 | 21.5 | **1.796.001** |
| 2000 | 29/32 | 29/32 | 6.3 | 21.5 | **1.796.002** |



**1.800.*** - 1.806.***

**Dropping funnels, acc. to DIN 12567,** cylindrical, without pressure equalizing, graduated, ST-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées,*** *sans tubulure latérale, à 2 rodages et à robinet interchangeable, verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.800.025** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.800.050** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.800.100** |
| 250 | 5 | 14/23 | 14/23 | 4 | 18.8 | **1.800.250** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.802.050** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.802.100** |
| 250 | 5 | 19/26 | 19/26 | 4 | 18.8 | **1.802.250** |
| 500 | 10 | 19/26 | 19/26 | 4 | 18.8 | **1.802.500** |
| 50 | 1 | 24/29 | 24/29 | 2.5 | 14.5 | **1.804.050** |
| 100 | 2 | 24/29 | 24/29 | 2.5 | 14.5 | **1.804.100** |
| 250 | 5 | 24/29 | 24/29 | 4 | 18.8 | **1.804.250** |
| 500 | 10 | 24/29 | 24/29 | 4 | 18.8 | **1.804.500** |
| 1000 | 20 | 24/29 | 24/29 | 6.3 | 21.5 | **1.804.001** |
| 2000 | 50 | 24/29 | 24/29 | 6.3 | 21.5 | **1.804.002** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.806.050** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.806.100** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.806.250** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.806.500** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.806.001** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.806.002** |

**Dropping funnels,** cylindrical, without pressure equalizing, graduated, ST-PTFE-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées,***
*sans tubulure latérale, à 2 rodages et à robinet interchangeable en téflon, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.810.025** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.810.050** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.810.100** |
| 250 | 5 | 14/23 | 14/23 | 4 | 18.8 | **1.810.250** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.812.050** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.812.100** |
| 250 | 5 | 19/26 | 19/26 | 4 | 18.8 | **1.812.250** |
| 500 | 10 | 19/26 | 19/26 | 4 | 18.8 | **1.812.500** |
| 50 | 1 | 24/29 | 24/29 | 2.5 | 14.5 | **1.814.050** |
| 100 | 2 | 24/29 | 24/29 | 2.5 | 14.5 | **1.814.100** |
| 250 | 5 | 24/29 | 24/29 | 4 | 18.8 | **1.814.250** |
| 500 | 10 | 24/29 | 24/29 | 4 | 18.8 | **1.814.500** |
| 1000 | 20 | 24/29 | 24/29 | 6.3 | 21.5 | **1.814.001** |
| 2000 | 50 | 24/29 | 24/29 | 6.3 | 21.5 | **1.814.002** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.816.050** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.816.100** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.816.250** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.816.500** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.816.001** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.816.002** |



**1.810.*****
**-**
**1.816.*****

**Dropping funnels,** cylindrical, without pressure equalizing, graduated, needle valve-stopcock, with PTFE-needle valve, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées,***
*sans tubulure latérale, à 2 rodages et à robinet à pointeau en téflon, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.828.025** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.828.050** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.827.105** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.827.110** |
| 250 | 5 | 19/26 | 19/26 | 4 | 18.8 | **1.827.125** |
| 500 | 10 | 19/26 | 19/26 | 4 | 18.8 | **1.827.150** |
| 50 | 1 | 24/29 | 24/29 | 2.5 | 14.5 | **1.827.205** |
| 100 | 2 | 24/29 | 24/29 | 2.5 | 14.5 | **1.827.210** |
| 250 | 5 | 24/29 | 24/29 | 4 | 18.8 | **1.827.225** |
| 500 | 10 | 24/29 | 24/29 | 4 | 18.8 | **1.827.250** |
| 1000 | 20 | 24/29 | 24/29 | 6.3 | 21.5 | **1.827.260** |
| 2000 | 50 | 24/29 | 24/29 | 6.3 | 21.5 | **1.827.272** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.828.051** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.828.100** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.828.250** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.828.500** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.828.001** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.828.002** |



**1.827.*****
**-**
**1.828.*****



**1.840.*** - 1.846.***

**Dropping funnels,** cylindrical, with pressure equalizing tube, ungraduated, ST-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques non-graduées,*** *avec tubulure latérale, à 2 rodages et à robinet interchangeable, en verre borosilicaté*

| Capacity *Capacité* ml | Cone *Cône mâle* ST | Socket *Cône femelle* ST | Bore of plug *Voie* mm | Stopcock *Robinet* | Order No. *N° de code* |
|---|---|---|---|---|---|
| 25 | 14/23 | 14/23 | 2.5 | 14.5 | **1.840.025** |
| 50 | 14/23 | 14/23 | 2.5 | 14.5 | **1.840.050** |
| 100 | 14/23 | 14/23 | 2.5 | 14.5 | **1.840.100** |
| 250 | 14/23 | 14/23 | 4 | 18.8 | **1.840.250** |
| 50 | 19/26 | 19/26 | 2.5 | 14.5 | **1.842.050** |
| 100 | 19/26 | 19/26 | 2.5 | 14.5 | **1.842.100** |
| 250 | 19/26 | 19/26 | 4 | 18.8 | **1.842.250** |
| 500 | 19/26 | 19/26 | 4 | 18.8 | **1.842.500** |
| 50 | 24/29 | 24/29 | 2.5 | 14.5 | **1.844.050** |
| 100 | 24/29 | 24/29 | 2.5 | 14.5 | **1.844.100** |
| 250 | 24/29 | 24/29 | 4 | 18.8 | **1.844.250** |
| 500 | 24/29 | 24/29 | 4 | 18.8 | **1.844.500** |
| 1000 | 24/29 | 24/29 | 6.3 | 21.5 | **1.844.001** |
| 2000 | 24/29 | 24/29 | 6.3 | 21.5 | **1.844.002** |
| 50 | 29/32 | 29/32 | 2.5 | 14.5 | **1.846.050** |
| 100 | 29/32 | 29/32 | 2.5 | 14.5 | **1.846.100** |
| 250 | 29/32 | 29/32 | 4 | 18.8 | **1.846.250** |
| 500 | 29/32 | 29/32 | 4 | 18.8 | **1.846.500** |
| 1000 | 29/32 | 29/32 | 6.3 | 21.5 | **1.846.001** |
| 2000 | 29/32 | 29/32 | 6.3 | 21.5 | **1.846.002** |



**1.850.*** - 1.856.***

Dropping funnels, acc. to DIN 12567 cylindrical, with pressure equalizing tube, graduated, ST-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées,*** *avec tubulure latérale, à 2 rodages et à robinet interchangeable, en verre borosilicaté*

| Capacity *Capacité* ml | Division *Division* ml | Cone *Cône mâle* ST | Socket *Cône femelle* ST | Bore of plug *Voie* mm | Stopcock *Robinet* | Order No. *N° de code* |
|---|---|---|---|---|---|---|
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.850.025** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.850.050** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.850.100** |
| 250 | 5 | 14/23 | 14/23 | 4 | 18.8 | **1.850.250** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.852.050** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.852.100** |
| 250 | 5 | 19/26 | 19/26 | 4 | 18.8 | **1.852.250** |
| 500 | 10 | 19/26 | 19/26 | 4 | 18.8 | **1.852.500** |
| 50 | 1 | 24/29 | 24/29 | 2.5 | 14.5 | **1.854.050** |
| 100 | 2 | 24/29 | 24/29 | 2.5 | 14.5 | **1.854.100** |
| 250 | 5 | 24/29 | 24/29 | 4 | 18.8 | **1.854.250** |
| 500 | 10 | 24/29 | 24/29 | 4 | 18.8 | **1.854.500** |
| 1000 | 20 | 24/29 | 24/29 | 6.3 | 21.5 | **1.854.001** |
| 2000 | 50 | 24/29 | 24/29 | 6.3 | 21.5 | **1.854.002** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.856.050** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.856.100** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.856.250** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.856.500** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.856.001** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.856.002** |

**Dropping funnels,** cylindrical, with pressure equalizing tube, graduated, ST-PTFE-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées,***
*avec tubulure latérale, à 2 rodages et à robinet interchangeable en téflon, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.860.025** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.860.050** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.860.100** |
| 250 | 5 | 14/23 | 14/23 | 4 | 18.8 | **1.860.250** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.862.050** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.862.100** |
| 250 | 5 | 19/26 | 19/26 | 4 | 18.8 | **1.862.250** |
| 500 | 10 | 19/26 | 19/26 | 4 | 18.8 | **1.862.500** |
| 50 | 1 | 24/29 | 24/29 | 2.5 | 14.5 | **1.864.050** |
| 100 | 2 | 24/29 | 24/29 | 2.5 | 14.5 | **1.864.100** |
| 250 | 5 | 24/29 | 24/29 | 4 | 18.8 | **1.864.250** |
| 500 | 10 | 24/29 | 24/29 | 4 | 18.8 | **1.864.500** |
| 1000 | 20 | 24/29 | 24/29 | 6.3 | 21.5 | **1.864.001** |
| 2000 | 50 | 24/29 | 24/29 | 6.3 | 21.5 | **1.864.002** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.866.050** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.866.100** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.866.250** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.866.500** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.866.001** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.866.002** |



**1.860.*****
**-**
**1.866.*****

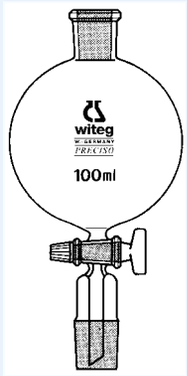
**Dropping funnels,** cylindrical, with pressure equailizing tube, graduated, needle valve-stopcock, with PTFE-needle valve, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées,***
*avec tubulure latérale, à 2 rodages coniques et à robinet à pointeau en téflon, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.869.050** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.868.105** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.868.110** |
| 250 | 5 | 19/26 | 19/26 | 4 | 18.8 | **1.868.125** |
| 500 | 10 | 19/26 | 19/26 | 4 | 18.8 | **1.868.150** |
| 50 | 1 | 24/29 | 24/29 | 2.5 | 14.5 | **1.868.205** |
| 100 | 2 | 24/29 | 24/29 | 2.5 | 14.5 | **1.868.210** |
| 250 | 5 | 24/29 | 24/29 | 4 | 18.8 | **1.868.225** |
| 500 | 10 | 24/29 | 24/29 | 4 | 18.8 | **1.868.250** |
| 1000 | 20 | 24/29 | 24/29 | 6.3 | 21.5 | **1.868.261** |
| 2000 | 50 | 24/29 | 24/29 | 6.3 | 21.5 | **1.868.272** |
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.869.025** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.869.051** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.869.100** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.869.250** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.869.500** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.869.001** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.869.002** |



**1.869.*****

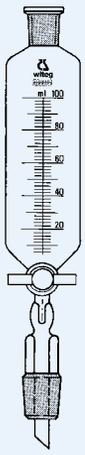



**1.886.*****
**-**
**1.892.*****

**Dropping funnels,** round bottom, ungraduated, ST-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules à décanter sphériques à rodages,*** *non-graduées, avec robinet interchangeable, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 25 | 14/23 | 14/23 | 2.5 | 14.5 | **1.886.025** |
| 50 | 14/23 | 14/23 | 2.5 | 14.5 | **1.886.050** |
| 100 | 14/23 | 14/23 | 2.5 | 14.5 | **1.886.100** |
| 250 | 14/23 | 14/23 | 4 | 18.8 | **1.886.250** |
| 50 | 19/26 | 19/26 | 2.5 | 14.5 | **1.888.050** |
| 100 | 19/26 | 19/26 | 2.5 | 14.5 | **1.888.100** |
| 250 | 19/26 | 19/26 | 4 | 18.8 | **1.888.250** |
| 500 | 19/26 | 19/26 | 4 | 18.8 | **1.888.500** |
| 50 | 24/29 | 24/29 | 2.5 | 14.5 | **1.890.050** |
| 100 | 24/29 | 24/29 | 2.5 | 14.5 | **1.890.100** |
| 250 | 24/29 | 24/29 | 4 | 18.8 | **1.890.250** |
| 500 | 24/29 | 24/29 | 4 | 18.8 | **1.890.500** |
| 1000 | 24/29 | 24/29 | 6.3 | 21.5 | **1.890.001** |
| 2000 | 24/29 | 24/29 | 6.3 | 21.5 | **1.890.002** |
| 50 | 29/32 | 29/32 | 2.5 | 14.5 | **1.892.050** |
| 100 | 29/32 | 29/32 | 2.5 | 14.5 | **1.892.100** |
| 250 | 29/32 | 29/32 | 4 | 18.8 | **1.892.250** |
| 500 | 29/32 | 29/32 | 4 | 18.8 | **1.892.500** |
| 1000 | 29/32 | 29/32 | 6.3 | 21.5 | **1.892.001** |
| 2000 | 29/32 | 29/32 | 6.3 | 21.5 | **1.892.002** |



**1.893.*****

**Dropping funnels,** cylindrical, with drip-nozzle, without pressure equalizing, graduated, ST-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées à gouttière,*** *sans tubulure, à rodages, avec robinet interchangeable, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 10 | 0.2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.001** |
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.002** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.003** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.013** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.893.004** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.893.005** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.893.006** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.893.007** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.893.008** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.893.009** |



**1.893.1****

**Dropping funnels,** cylindrical, with drip-nozzle, without pressure equalizing, graduated, ST-PTFE-stopcock, with screw-thread retaining nut, made of borosilicate glass

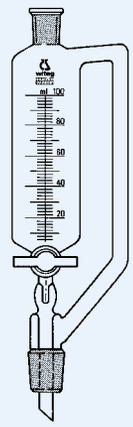
***Ampoules cylindriques graduées à gouttière,*** *sans tubulure, à rodages, avec robinet interchangeable en téflon, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 10 | 0.2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.101** |
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.102** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.103** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.893.113** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.893.104** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.893.105** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.893.106** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.893.107** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.893.108** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.893.109** |

**Dropping funnels,** cylindrical, with drip-nozzle, with pressure equalizing, graduated, ST-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées à gouttière et tubulure,*** *à rodages, avec robinet interchangeable, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 10 | 0.2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.001** |
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.002** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.003** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.013** |
| 10 | 0.2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.021** |
| 25 | 0.5 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.022** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.023** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.024** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.895.004** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.895.005** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.895.006** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.895.007** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.895.008** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.895.009** |

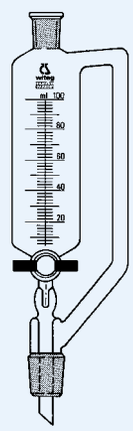


**1.895.*****

**Dropping funnels,** cylindrical, with drip-nozzle, with pressure equalizing, graduated, ST-PTFE-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Ampoules cylindriques graduées à gouttière et tubulure,*** *à rodages, avec robinet interchangeable en téflon, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Bore of Plug<br>*Voie*<br>mm | Stopcock<br>*Robinet* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 10 | 0.2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.101** |
| 25 | 0.5 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.102** |
| 50 | 1 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.103** |
| 100 | 2 | 14/23 | 14/23 | 2.5 | 14.5 | **1.895.113** |
| 10 | 0.2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.121** |
| 25 | 0.5 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.122** |
| 50 | 1 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.123** |
| 100 | 2 | 19/26 | 19/26 | 2.5 | 14.5 | **1.895.124** |
| 50 | 1 | 29/32 | 29/32 | 2.5 | 14.5 | **1.895.104** |
| 100 | 2 | 29/32 | 29/32 | 2.5 | 14.5 | **1.895.105** |
| 250 | 5 | 29/32 | 29/32 | 4 | 18.8 | **1.895.106** |
| 500 | 10 | 29/32 | 29/32 | 4 | 18.8 | **1.895.107** |
| 1000 | 20 | 29/32 | 29/32 | 6.3 | 21.5 | **1.895.108** |
| 2000 | 50 | 29/32 | 29/32 | 6.3 | 21.5 | **1.895.109** |

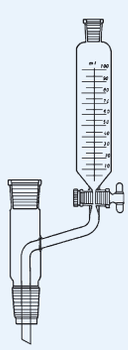


**1.895.1****

**Dropping funnels at connecting piece,** cylindrical, graduated, stopcock 14.5, made of borosilicate glass

***Ampoules graduées cylindriques à raccord latéral à rodage,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Connecting piece<br>*Cône mâle*<br>ST | Funnel socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 1 | 14/23 | 14/23 | **1.896.050** |
| 50 | 1 | 29/32 | 14/23 | **1.896.051** |
| 100 | 2 | 14/23 | 14/23 | **1.896.100** |
| 100 | 2 | 29/32 | 14/23 | **1.896.101** |



**1.896.*****



**1.897.7****

**Funnels for solids,** for powdery substances, vertical version with cooled lower part to avoid sticking problems of the spiral conveyor, made of borosilicate glass

***Ampoules cylindriques pour solides,** à rodages, version à serpentin vertical, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 29/32 | 29/32 | **1.897.775** |
| 100 | 29/32 | 29/32 | **1.897.776** |
| 250 | 29/32 | 29/32 | **1.897.777** |
| 500 | 29/32 | 29/32 | **1.897.778** |
| 1000 | 29/32 | 29/32 | **1.897.779** |



**1.897.8****

**Funnels for solids,** for powdery substances, spiral conveyor, horizontal version, made of borosilicate glass

***Ampoules cylindriques pour solides,** à rodages, version à serpentin horizontal, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 29/32 | 29/32 | **1.897.805** |
| 100 | 29/32 | 29/32 | **1.897.810** |
| 250 | 29/32 | 29/32 | **1.897.825** |
| 500 | 29/32 | 29/32 | **1.897.850** |
| 1000 | 29/32 | 29/32 | **1.897.890** |

## Delivery adapters
## *Allonges à distiller*



**1.900.*****

**Delivery adapters, straight,** made of borosilicate glass

***Allonges à distiller droites,** à rodage femelle, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Tube length<br>*Longueur du tube*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 80 | **1.900.014** |
| 19/26 | 80 | **1.900.019** |
| 24/29 | 100 | **1.900.024** |
| 29/32 | 100 | **1.900.029** |

**Delivery adapters, bent,** made of borosilicate glass

***Allonges à distiller coudées,** à rodage femelle, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Tube length<br>*Longueur du tube*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 80 | **1.902.014** |
| 19/26 | 80 | **1.902.019** |
| 24/29 | 100 | **1.902.024** |
| 29/32 | 100 | **1.902.029** |



**1.902.*****
**-**
**1.903.*****

**Delivery adapters, bent,** with long tube, made of borosilicate glass

***Allonges à distiller coudées,** à rodage femelle, en verre borosilicaté, tube long*

| Socket<br>*Cône femelle*<br>ST | Tube length<br>*Longueur du tube*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 190 | **1.903.014** |
| 19/26 | 200 | **1.903.019** |
| 24/29 | 200 | **1.903.024** |
| 29/32 | 200 | **1.903.029** |

## Receiving adapters
## *Allonges à rodages normalisés*

**Receiving adapters, straight,** with suction tube, made of borosilicate glass

***Allonges droites à rodages normalisés avec olive de raccordement au vide,*** *en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.904.014** |
| 19/26 | 19/26 | **1.904.019** |
| 19/26 | 24/29 | **1.904.020** |
| 24/29 | 24/29 | **1.904.024** |
| 19/26 | 29/32 | **1.904.025** |
| 29/32 | 29/32 | **1.904.029** |



**1.904.*****

**Receiving adapters, straight,** with SVS hose connection, made of borosilicate glass

***Allonges droites à rodages normalisés avec olive à raccord SVS,*** *en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.904.014 S** |
| 19/26 | 19/26 | **1.904.019 S** |
| 19/26 | 24/29 | **1.904.020 S** |
| 24/29 | 24/29 | **1.904.024 S** |
| 19/26 | 29/32 | **1.904.025 S** |
| 29/32 | 29/32 | **1.904.029 S** |



**1.904.*** S**

**Receiving adapters, bent,** with vacuum connection, made of borosilicate glass

***Allonges coudées à rodages normalisés*** *avec olive de raccordement au vide, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.905.014** |
| 19/26 | 19/26 | **1.905.019** |
| 19/26 | 24/29 | **1.905.020** |
| 24/29 | 24/29 | **1.905.024** |
| 19/26 | 29/32 | **1.905.025** |
| 29/32 | 29/32 | **1.905.029** |

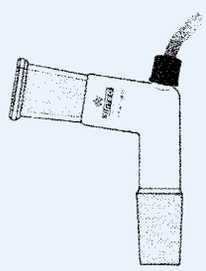


**1.905.***

**Receiving adapters, bent,** with SVS hose connection, made of borosilicate glass

***Allonges coudées à rodages normalisés*** *avec olive à raccordement SVS, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.905.014 S** |
| 19/26 | 19/26 | **1.905.019 S** |
| 19/26 | 24/29 | **1.905.020 S** |
| 24/29 | 24/29 | **1.905.024 S** |
| 19/26 | 29/32 | **1.905.025 S** |
| 29/32 | 29/32 | **1.905.029 S** |



**1.905.*** S**



1.906.***

**Receiving adapters, bent,** with vacuum connection and drip tip, made of borosilicate glass

***Allonges coudées à rodages normalisés*** *avec olive de raccordement au vide et gouttière, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.906.014** |
| 19/26 | 19/26 | **1.906.019** |
| 19/26 | 24/29 | **1.906.020** |
| 24/29 | 24/29 | **1.906.024** |
| 19/26 | 29/32 | **1.906.025** |
| 29/32 | 29/32 | **1.906.029** |



1.906.*** S

**Receiving adapters, bent,** with SVS hose connection and drip tip, made of borosilicate glass

***Allonges coudées à rodages normalisés*** *avec olive á raccord SVS et gouttière, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.906.014 S** |
| 19/26 | 19/26 | **1.906.019 S** |
| 19/26 | 24/29 | **1.906.020 S** |
| 24/29 | 24/29 | **1.906.024 S** |
| 19/26 | 29/32 | **1.906.025 S** |
| 29/32 | 29/32 | **1.906.029 S** |



1.908.***

**Receiving adapters, straight,** with vacuum connection and drip tip, made of borosilicate glass

***Allonges droites à rodages normalisés*** *avec olive de raccordement au vide et gouttière, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.908.014** |
| 19/26 | 19/26 | **1.908.019** |
| 24/29 | 24/29 | **1.908.024** |
| 29/32 | 29/32 | **1.908.029** |

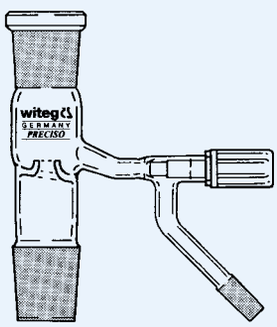


1.908.*** S

**Receiving adapters, straight,** with SVS hose connection and drip tip, made of borosilicate glass

***Allonges droites à rodages normalisés*** *avec olive á raccordSVSe et gouttière, en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.908.014 S** |
| 19/26 | 19/26 | **1.908.019 S** |
| 24/29 | 24/29 | **1.908.024 S** |
| 29/32 | 29/32 | **1.908.029 S** |




1.910.***

**Distilling link acc. to Dr. Horworka,** for quick change from reflux distillation to down stream distillation and opposite, with PTFE valve stoppcock 6 mm, made of borosilicate glass

***Raccords de distillation selon Dr. Horworka*** *en verre borosilicaté, pour passage rapide de la distillation à reflux à la distillation à vapeur basse et vice-versa, avec robinet à pointeau en téflon de 6 mm*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Cone lateral<br>*Rodage conique mâle latéral*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 | 14/23 | 14/23 | **1.910.001** |
| 29/32 | 29/32 | 14/23 | **1.910.002** |

**Distilling link,** with PTFE stopcock ST 14.5/2.5, made of borosilicate glass

***Raccords de distillation selon Dr. Horworka*** *en verre borosilicaté, pour passage rapide de la distillation à reflux à la distillation à vapeur basse et vice-versa, avec robinet à clé en téflon 14.5/2.5*

| Socket<br>*Cône femelle*<br>ST | Cone<br>*Cône mâle*<br>ST | Cone lateral<br>*Rodage conique mâle latéral*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 14/23 | 14/23 | 14/23 | **1.910.101** |
| 29/32 | 29/32 | 14/23 | **1.910.102** |

## Distilling receivers
## *Séparateurs*

**Distilling receivers, Bredt,** complete with adapter, distributor and 4 flask-round bottom ST 14/23, made of borosilicate glass

***Séparateurs de Bredt (ou de Pauly) avec prise de vide,*** *en verre borosilicaté, complet avec 4 ballons à fond rond et à RIN 14/23*

| Condenser socket<br>*Cône femelle*<br>ST | Distributor cone<br>*Cône mâle*<br>ST | Cones 4 x<br>*Cône mâle*<br>ST | Capacity flask<br>*Capacité ballon*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14/23 | 29/32 | 14/23 | 25 | **1.920.000** |
| 19/26 | 29/32 | 14/23 | 50 | **1.922.000** |
| 24/29 | 29/32 | 14/23 | 100 | **1.924.000** |
| 29/32 | 29/32 | 14/23 | 100 | **1.926.000** |

**Adapter, flasks,** made of borosilicate glass

***Raccords de vide de rechange,*** *seuls pour séparateurs, en verre borosilicaté,*

| Condenser Socket<br>*Cône femelle*<br>*Réfrigèrant*<br>ST | Distributor Socket<br>*Raccord Separateur*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 29/32 | **1.920.001** |
| 19/26 | 29/32 | **1.922.001** |
| 24/29 | 29/32 | **1.924.001** |
| 29/32 | 29/32 | **1.926.001** |

**Distributor, only,** made of borosilicate glass

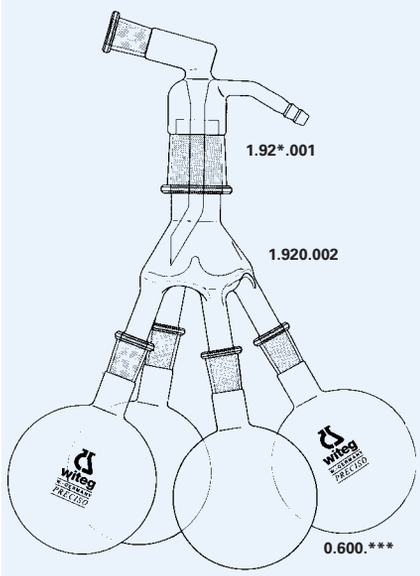
***Séparateurs, de rechange,*** *en verre borosilicaté*

| Distributor cone<br>*Cône mâle*<br>ST | Cones 4 x<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 29/32 | 14/23 | **1.920.002** |

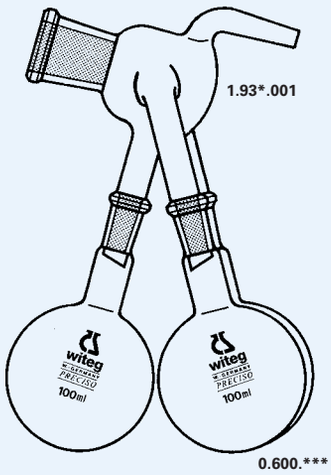
**Flasks, round bottom,** made of borosilicate glass

***Ballons à fond rond de rechange,*** *en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 25 | **0.600.025** |
| 14/23 | 50 | **0.600.050** |
| 14/23 | 100 | **0.600.100** |




**1.920.***
-
**1.926.***




**1.930.*** - 1.936.*****

**Distilling receivers, acc. to Bernhauer,** with vacuum connection, complete with 3 flasks round bottom ST 14/23, made of borosilicate glass

***Séparateurs de Bernhauer avec prise de vide,*** *en verre borosilicaté, complet avec 3 ballons à fond rond et à RIN 14/23*

| Socket<br>*Cône femelle*<br>ST | Flasks capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 50 | **1.930.000** |
| 19/26 | 100 | **1.932.000** |
| 24/29 | 100 | **1.934.000** |
| 29/32 | 100 | **1.936.000** |

**Distributor,** made of borosilicate glass

***Séparateurs de Bernhauer, de rechange,*** *en verre borosilicaté*

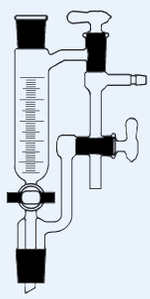
| Distributor cone<br>*Cône mâle*<br>ST | Cones 3x<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 14/23 | **1.930.001** |
| 19/26 | 14/23 | **1.932.001** |
| 24/29 | 14/23 | **1.934.001** |
| 29/32 | 14/23 | **1.936.001** |

**Flasks, round bottom,** made of borosilicate glass

***Ballons à fond rond de rechange,*** *en verre borosilicaté*

| Socket<br>*Cône femelle*<br>ST | Flask capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 14/23 | 50 | **0.600.050** |
| 14/23 | 100 | **0.600.100** |

## Intermediate receivers
## *Récepteurs intermédiaires de distillation*

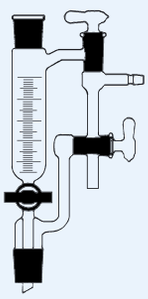


**1.950.*****

**Intermediate receivers,** acc. to Anschütz-Thiele, straight adapter, graduated, with hollow ST-stopcock, made of borosilicate glass

***Récepteurs intermédiaires de distillation selon Anschütz-Thiele,*** *forme droite à robinet standard, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 14/23 | 14/23 | **1.950.014** |
| 100 | 24/29 | 24/29 | **1.950.024** |
| 50 | 29/32 | 29/32 | **1.950.025** |
| 100 | 29/32 | 29/32 | **1.950.029** |



**1.952.*****

**Intermediate receivers,** acc. to Anschütz-Thiele, straight adapter, graduated, with PTFE-valve-stopcock, made of borosilicate glass

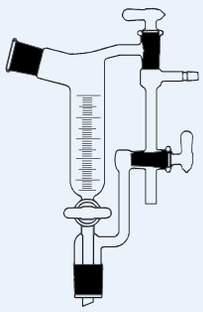
***Récepteurs intermédiaires de distillation selon Anschütz-Thiele,*** *forme droite à robinet à clé en téflon (PTFE), en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 14/23 | 14/23 | **1.952.014** |
| 100 | 24/29 | 24/29 | **1.952.024** |
| 50 | 29/32 | 29/32 | **1.952.025** |
| 100 | 29/32 | 29/32 | **1.952.029** |

**Intermediate receivers,** acc. to Anschütz-Thiele, with oblique adapter, graduated, with hollow ST-stopcock, made of borosilicate glass

***Récepteurs intermédiaires de distillation selon Anschütz-Thiele,*** *forme coudée à robinet standard, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 14/23 | 14/23 | **1.960.014** |
| 50 | 24/29 | 19/26 | **1.960.019** |
| 50 | 24/29 | 24/29 | **1.960.024** |
| 50 | 29/32 | 29/32 | **1.960.025** |
| 100 | 29/32 | 29/32 | **1.960.029** |



**1.960.******

**Intermediate receivers,** acc. to Anschütz-Thiele, with oblique adapter, graduated, with PTFE-valve-stopcock, made of borosilicate glass

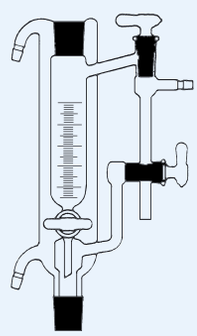
***Récepteurs intermédiaires de distillation selon Anschütz-Thiele,*** *forme coudée à robinet à clé en téflon (PTFE), en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 14/23 | 14/23 | **1.962.014** |
| 50 | 24/29 | 19/26 | **1.962.019** |
| 50 | 24/29 | 24/29 | **1.962.024** |
| 50 | 29/32 | 29/32 | **1.962.025** |
| 100 | 29/32 | 29/32 | **1.962.029** |

**Intermediate receivers,** acc. to Anschütz-Thiele, straight adapter, graduated, with hollow ST-stopcock, with cooling jacket, made of borosilicate glass **(or with water connection GL 14 x.xxx.xxx S)**

***Récepteurs intermédiaires de distillation selon Anschütz-Thiele,*** *forme droite avec manteau de refroidissement à robinet standard, creux, en verre borosilicaté*
***(ou avec raccords à vis GL 14 x.xxx.xxx S)***

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>GL 14 |
|---|---|---|---|---|
| 50 | 29/32 | 29/32 | **1.962.119** | **1.962.119 S** |
| 100 | 29/32 | 29/32 | **1.962.129** | **1.962.129 S** |
| 250 | 29/32 | 29/32 | **1.962.139** | **1.962.139 S** |



**1.962.2****

**Intermediate receivers,** acc. to Anschütz-Thiele, straight adapter, graduated, with PTFE-stopcock, with cooling jacket, made of borosilicate glass **(or with water connection GL 14 x.xxx.xxx S)**

***Récepteurs intermédiaires de distillation selon Anschütz-Thiele,*** *forme droite avec manteau de refroidissement à robinet à clé en téflon, en verre borosilicaté*
***(ou avec raccords à vis GL 14 x.xxx.xxx S)***

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>GL 14 |
|---|---|---|---|---|
| 50 | 29/32 | 29/32 | **1.962.219** | **1.962.219 S** |
| 100 | 29/32 | 29/32 | **1.962.229** | **1.962.229 S** |
| 250 | 29/32 | 29/32 | **1.962.239** | **1.962.239 S** |

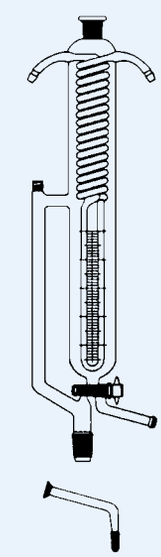


**With water connection 2 x GL 14 x.xxx.xxx S**
***(ou avec raccords à vis 2 x GL 14 x.xxx.xxx S)***

**Distillation head,** graduated, with condenser and supply vessel, for receycling of solvents, with screw-thread GL 14, made of borosilicate glass

***Tête de distillation graduée pour recyclage des solvants avec réfrigérant et réservoir de distribution,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 29/32 | 29/32 | **1.963.000** |



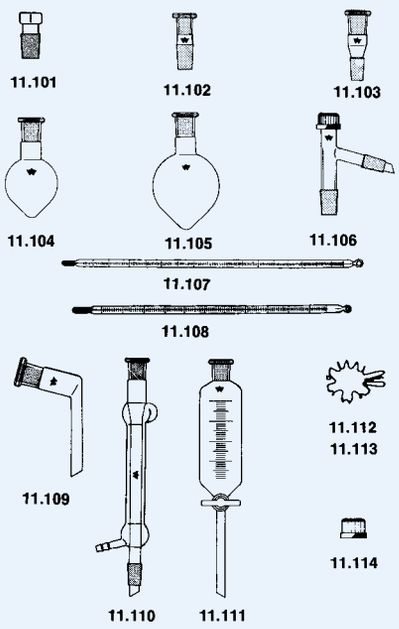
**Delivery adapter,** angled, with spherical joint S 19/9, made of borosilicate glass

***Adaptateur d'alimentation incliné,*** *avec roadge sphérique femelle S 19/9*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14/23 | **1.963.001** |

**1.963.*****

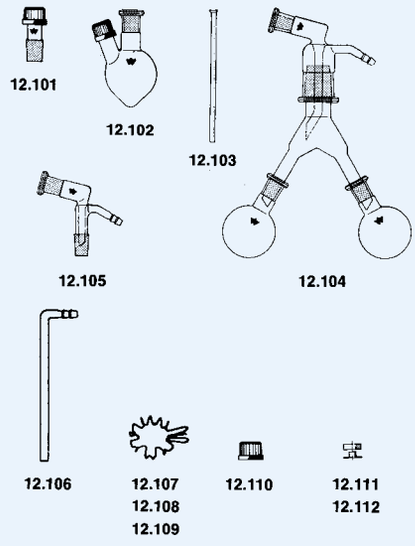
## ST-Combi boxes
## *Coffrets ST d'expérimentation*




**ST-Combi-Box „Semi-Mikro" 11,**
made of borosilicate glass, packed in cardboard-box

***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 11,*** *en verre borosilicaté, livré dans une boite en carton*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **11.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Hollow-stopper ST 14/23 | **11.101** |
| 1 Reduction adapter ST 19/26 - ST 14/23 | **11.102** |
| 1 Expansions adapter ST 14/23 - ST 19/26 | **11.103** |
| 1 Flask, pear shaped, 25 ml, ST 19/26 | **11.104** |
| 1 Flask, pear shaped, 50 ml, ST 19/26 | **11.105** |
| 1 Recovery head, ST 19/26, GL 18/6, ST 14/23 | **11.106** |
| 1 Thermometer, solid stem, - 10 to + 250 °C : 1 °C | **11.107** |
| 1 Thermometer, solid stem, - 10 to + 360 °C : 1 °C | **11.108** |
| 1 Delivery Adapter, ST 14/23 | **11.109** |
| 1 Condenser, Liebig, 160 mm, with 2 ST 14/23 | **11.110** |
| 1 Dropping funnel, cylindrical, with graduation, 50 ml, ST 14/23 | **11.111** |
| 5 Clips for joints, ST 14/23 | **11.112** |
| 3 Clips for joints, ST 19/26 | **11.113** |
| 1 Screw cap, top closed, GL 18 | **11.114** |




**ST-Combi-Box „Semi-Mikro" 12,**
made of borosilicate glass, packed in cardboard-box

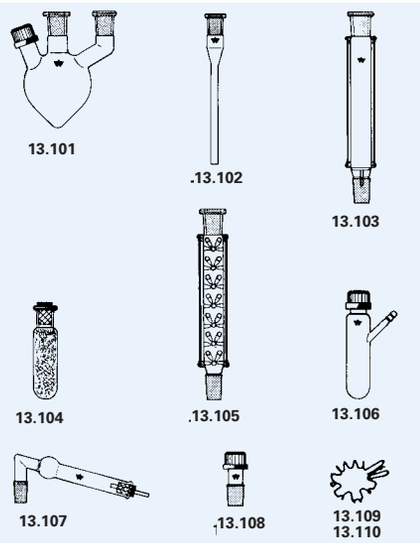
***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 12,*** *en verre borosilicaté, livré dans une boite en carton*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **12.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Screw-thread, with cone, ST 19/26, GL 18/8 | **12.101** |
| 1 Flask, pear shaped, 50 ml, center neck ST 19/26 | **12.102** |
| side neck angled with screw-thread GL 18/8 | **12.102** |
| 2 Air leak tubes, outer Ø 8 mm | **12.103** |
| 1 Distilling receiver, Bredt, complete, adapter ST 14/23 - 29/32 | **12.104** |
| distributor ST 23/32 - 14/23, 4 flasks, round, 25 ml | **12.104** |
| 1 Receiver adapter, bent, | **12.105** |
| with vacuum connection and drip tip, 2 ST 14/23 | |
| 2 Inlet tubes at 90°, with serrated hose connector, outer Ø 8 mm | **12.106** |
| 4 Clips for joints, ST 14/23 | **12.107** |
| 2 Clips for joints, ST 19/26 | **12.108** |
| 2 Clips for joints, ST 29/32 | **12.109** |
| 1 Screw cap, top closed, GL 18 | **12.110** |
| 10 Gaskets, silicone rubber, with PTFE washers 16 x 6 - GL 18 | **12.111** |
| 10 Gaskets, silicone rubber, with PTFE washers 16 x 8 - GL 18 | **12.112** |

**ST-Combi-Box „Semi-Mikro“ 13,**
made of borosilicate glass, packed in cardboard-box

***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 13,*** *en verre borosilicaté, livré dans une boite en carton*

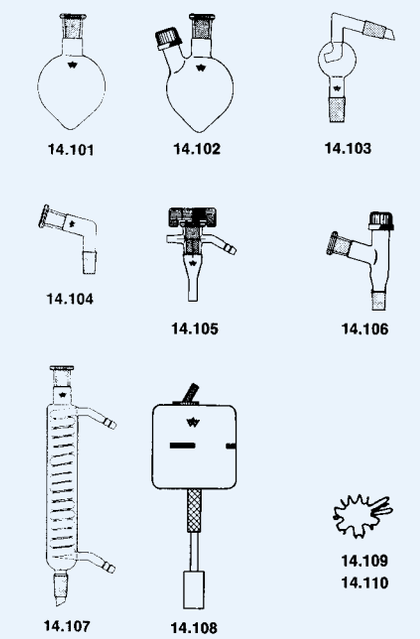
| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **13.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Flask, pear shaped, 100 ml, center neck ST 19/26, side neck angled with screw-thread GL 18/8, SN parallel ST 14/23 | **13.101** |
| 1 Inlet tube ST 14/23, outer Ø 8 mm | **13.102** |
| 1 Fractionating column, Hempel, 200 mm, 2 ST 19/26 (usable also as chromatographic column) | **13.103** |
| 1 Test tube with glass rings, Raschig, 4 x 4 mm | **13.104** |
| 1 Fractionating column, Vigreux, 300 mm, 2 ST 19/26 | **13.105** |
| 1 Receiver tube, with serrated hose connector and screw-thread, GL 18/8 | **13.106** |
| 2 Drying tubes, ST 14/23 | **13.107** |
| 1 Screw-thread, with cone ST 19/26, GL 18/8 | **13.108** |
| 5 Clips for joints, ST 14/23 | **13.109** |
| 3 Clips for joints, ST 19/26 | **13.110** |




**ST-Combi-Box „Semi-Mikro“ 14,**
made of borosilicate glass, packed in cardboard-box

***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type ,*** *en verre borosilicaté, livré dans une boite en carton*

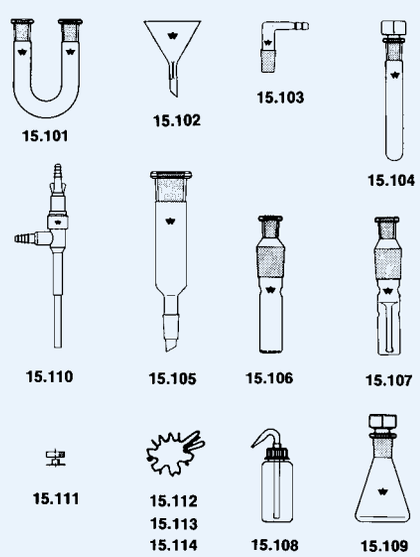
| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **14.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Flask, pear shaped, 100 ml, ST 19/26 | **14.101** |
| 1 Flask, pear shaped, 100 ml, center neck ST 19/26, side neck angled with screw-thread GL 18/8 | **14.102** |
| 1 Splash head, bent, with ST 19/26 - 14/23 | **14.103** |
| 1 Bent 105°, 2 ST 14/23 | **14.104** |
| 1 Vacuum stopcock, bore of plug 4 mm, tube outer Ø 8 mm | **14.105** |
| 1 Delivery adapter, 2 ST 14/23 - GL 18/8 | **14.106** |
| 1 Condenser, Graham, 160 mm, 2 ST 14/23 | **14.107** |
| 1 Stirrer motor, with cable and plug, 220 V (complete with rod and stirrer paddle) | **14.108** |
| 4 Clips for joints, ST 14/23 | **14.109** |
| 4 Clips for joints, ST 19/26 | **14.110** |



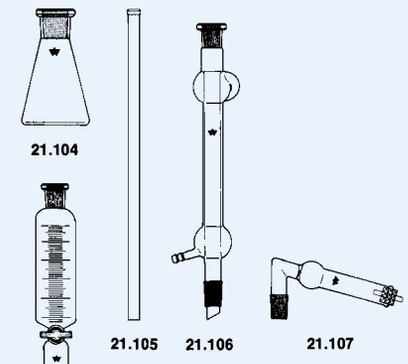

**ST-Combi-Box „Semi-Mikro“ 15,**
made of borosilicate glass, packed in cardboard-box

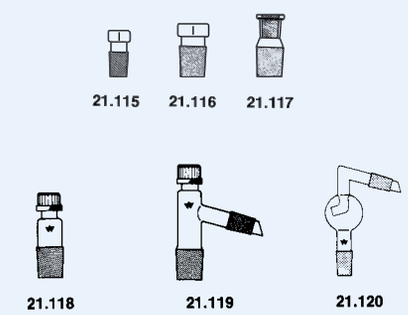
***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 15,*** *en verre borosilicaté, livré dans une boite en carton*

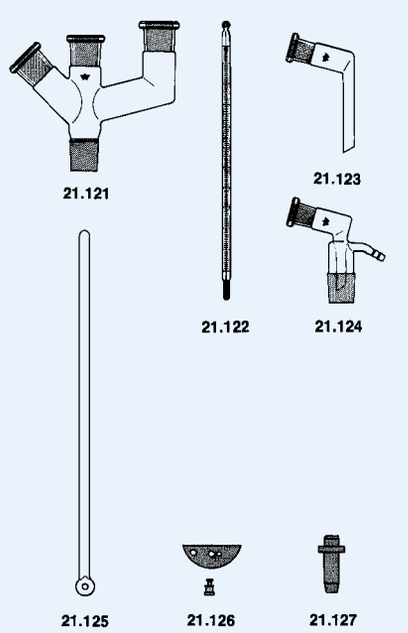
| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **15.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 U-tube, 2 ST 14/23 | **15.101** |
| 1 Funnel, Ø 50 mm, made of polypropylene | **15.102** |
| 2 Suction tubes, bent, ST 14/23 | **15.103** |
| 2 Test tubes, 17 x 130 mm, with hollow stoppers ST 14/23 | **15.104** |
| 1 Extraxtor, acc. to Antlinger, ST 19/26 - 29/32 | **15.105** |
| 1 Extraxtor, insert for solid materials, ST 29/32 - 14/23 | **15.106** |
| 1 Extraxtor, using lighter solvents, ST 29/32 - 14/23 | **15.107** |
| 1 Wash bottle, 100 ml, made of polyethylene | **15.108** |
| 1 Erlenmeyer flask, 100 ml, with hollow stopper ST 19/26 | **15.109** |
| 1 Filter pump, with built-in safety valve, made of polypropylene | **15.110** |
| 2 Gaskets, silicone rubber, with PTFE washers, 16 x 6, GL 18/8 | **15.111** |
| 4 Clips for joints, ST 14/23 | **15.112** |
| 4 Clips for joints, ST 19/26 | **15.113** |
| 2 Clips for joints, ST 29/32 | **15.114** |






**ST-Combi-Box „Makro“ 21,**
made of borosilicate glass, packed in cardboard-box

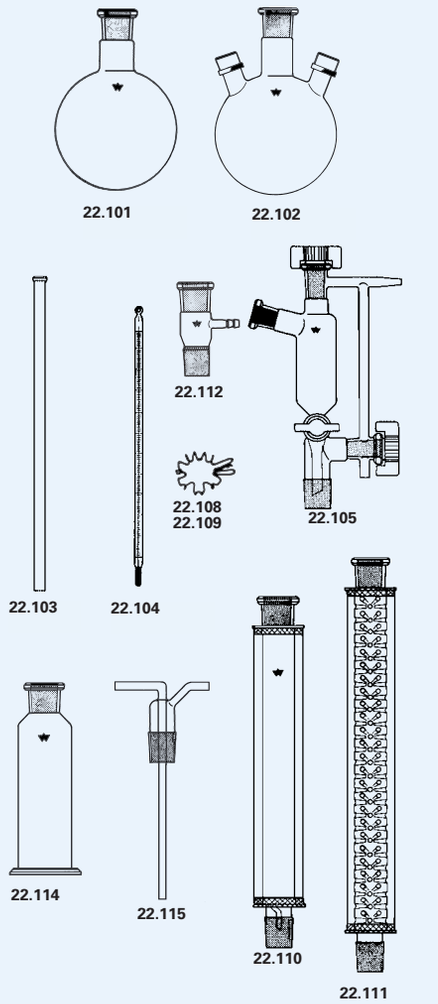
***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 21,*** *en verre borosilicaté, livré dans une boite en carton*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **21.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Flask, round bottom, 100 ml, ST 29/32 | **21.101** |
| 1 Flask, round bottom, 250 ml, ST 29/32 | **21.102** |
| 1 Flask, round bottom, 500 ml, ST 29/32 | **21.103** |
| 1 Erlenmeyer flask, 200 ml, ST 29/32 | **21.104** |
| 2 Air leak tubes, outer Ø 8 mm | **21.105** |
| 1 Condenser, Liebig, 200 mm, wit 2 ST 19/26 | **21.106** |
| 1 Drying tube, ST 19/26 | **21.107** |
| 1 Dropping funnel, cylindrical, graduated 100 ml, ST 29/32 - 19/26 | **21.108** |
| 6 Clips for joints, ST 19/26 | **21.109** |
| 10 Clips for joints, ST 29/32 | **21.110** |
| 1 Screw cap, top closed, GL 18 | **21.111** |
| 10 Gaskets, silicone rubber, with PTFE washers, 16 x 6, GL 18 | **21.112** |
| 10 Gaskets, silicone rubber, with PTFE washers, 16 x 8, GL 25 | **21.113** |
| 10 Gaskets, silicone rubber, with PTFE washers, 22 x 8, GL 25 | **21.114** |
| 1 Hollow-stopper, ST 19/26 | **21.115** |
| 1 Hollow-stopper, ST 29/32 | **21.116** |
| 1 Reduction adapter, ST 29/32 - 19/26 | **21.117** |
| 1 Screw-thread with cone, ST 29/32 - GL 25/8 | **21.118** |
| 1 Delivery adapter, ST 29/32, GL 18/6, ST 19/26 | **21.119** |
| 1 Splash head, bent, ST 29/32 - 19/26 | **21.120** |
| 1 Multiple adapter, 3 necks, 4 ST 29/32 | **21.121** |
| 1 Thermometer, solid stem, - 10 to + 250°C : 1 °C | **21.122** |
| 1 Delivery adapter, bent, ST 19/26 | **21.123** |
| 1 Receiver adapter, bent with vacuum connection and drip tip, ST 19/26 - 29/32 | **21.124** |
| 1 Stirrer shaft, outer Ø 7-8 mm suitable for usse PTFE-stirring blade with PTFE toggle | **21.125** |
| 1 PTFE-stirrer blade, 50 x 24 mm | **21.126** |
| 1 Insert, made of polypropylene, inner Ø 8mm for stirrer shaft, with rubber tubing and gasket, silicone rubber, PTFE washers 22 x 12, GL 25 | **21.127** |

**ST-Combi-Box „Makro“ 22,**
made of borosilicate glass, packed in cardboard-box

***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 22,*** *en verre borosilicaté, livré dans une boite en carton*

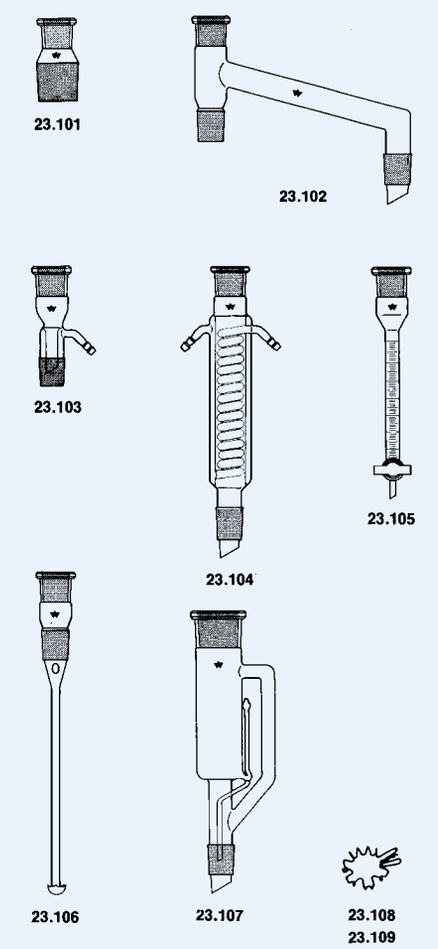
| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **22.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Flask, round bottom, 1000 ml, ST 29/32 | **22.101** |
| 1 Flask, with 2 side necks, 1000 ml, center neck ST 29/32<br>2 side necks angled with screw-thread GL 18/6 - GL 18/8 | **22.102** |
| 2 Air leak tubes, outer Ø 8 mm | **22.103** |
| 1 Thermometer, solid stem, - 10 to + 250°C : 1 °C | **22.104** |
| 1 Intermediate receiver, Anschütz-Thiele, oblique adapter, ungraduated, ST 19/26 - 29/32 | **22.105** |
| 2 Clips for joints, ST 19/26 | **22.108** |
| 2 Clips for joints, ST 29/32 | **22.109** |
| 1 Fractionating column, Hempel, 300 mm, 2 ST 29/32 | **22.110** |
| 1 Fractionating column, Vigreux, 400 mm, 2 ST 29/32 | **22.111** |
| 1 Delivery adapter, straight, with suction tube, 2 ST 29/32 | **22.112** |
| 1 Bottle, 250 ml, 2 ST 29/32 | **22.114** |
| 1 Gas washing head, ST 29/32 | **22.115** |

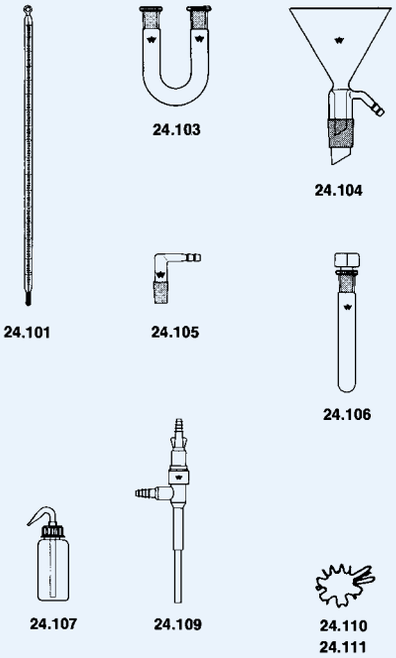



**ST-Combi-Box „Makro“ 23,**
made of borosilicate glass, packed in cardboard-box

***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 23,*** *en verre borosilicaté, livré dans une boite en carton*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **23.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Reduction adapter, ST 45/40 - 29/32 | **23.101** |
| 1 Distilling link, 2 ST 29/32 | **23.102** |
| 1 Receiver adapter, straight,<br>with vacuum connection and drip tip, 2 ST 29/32 | **23.103** |
| 1 Jacketed coil condenser, 250 mm, 2 ST 29/32 | **23.104** |
| 1 Measuring tube with ST stopcock,<br>graduated, 10 ml : 0.1 ml, ST 29/32 | **23.105** |
| 1 Distributing tube, 2 ST 29/32 | **23.106** |
| 1 Extractor, acc. to Soxhlet, ST 29/32, ST 45/40<br>(for extraction thimbles 94 x 33 mm) | **23.107** |
| 2 Clips for joints, ST 29/32 | **23.108** |
| 1 Clips for joints, ST 45/40 | **23.109** |






**ST-Combi-Box „Makro“ 24,**
made of borosilicate glass, packed in cardboard-box

***Kits d'expérimentation "Combi-Box" pour différents montages de distillation / réaction, Type semi-micro 24,*** *en verre borosilicaté, livré dans une boite en carton*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **24.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Thermometer, solid stem, - 10 to + 360 °C : 1 °C | **24.101** |
| 1 U-tube, ST 14/23 | **24.103** |
| 1 Funnel with ST 29/32, Ø 60 mm, with vacuum connection and drip tip | **24.104** |
| 2 Suction tubes, bent, ST 14/23 | **24.105** |
| 2 Test tubes, 17 x 130 mm, with hollow stopper, ST 14/23 | **24.106** |
| 1 Wash bottle, 100 ml, made of polyethylene | **24.107** |
| 1 Filter pump with built-in valve, made of polypropylene | **24.109** |
| 3 Clips for joints, ST 14/23 | **23.110** |
| 2 Clips for joints, ST 29/32 | **24.111** |

## SVS-Combi-Box
## *Coffrets SVS d'expérimentation*




The present omnibus volume which contains approximately 120 experiments was created by practical men for the practice. The following points are characteristic to this volume:

- Didactically selected and exhaustively described experiments for the teachers.
- With didactic remarks.
- With formulated aims of learning.
- Indication of the results of the tasks in the text for the teachers only.
- Closely coupled with own experiments for the pupil.
- With observation and transfer tasks for the pupil.

Textbook for the experimental chemistry instruction – complete card index of experiments, as well as corresponding work sheet for pupils per experiment.

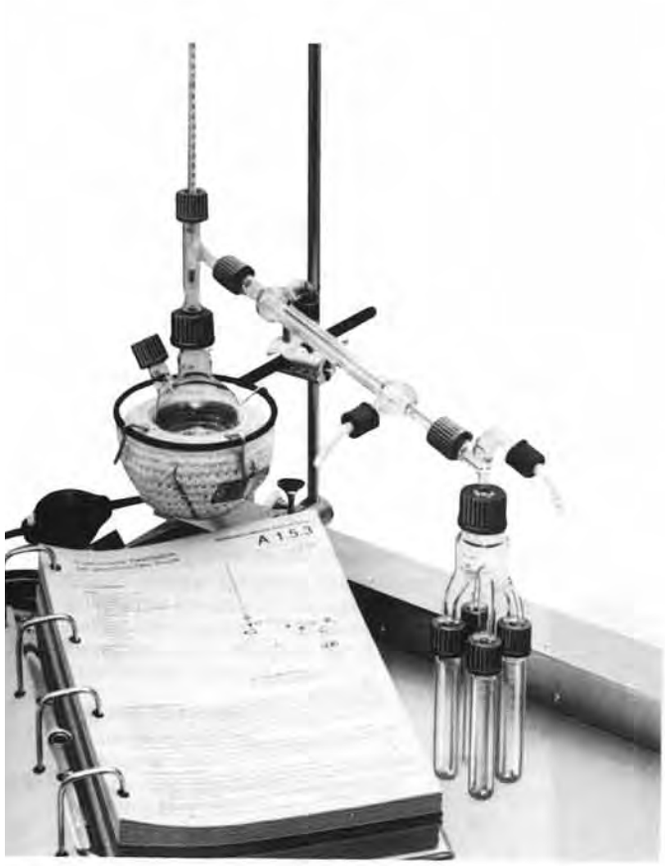
Experiment with the SVS-combi-box, by Prof. Dr. E. Höfling, Prof. Dr. H. Menrad, Stud.-Dir. W. Obermeyer.

**Handbook for the chemistry instruction - only available in German language**

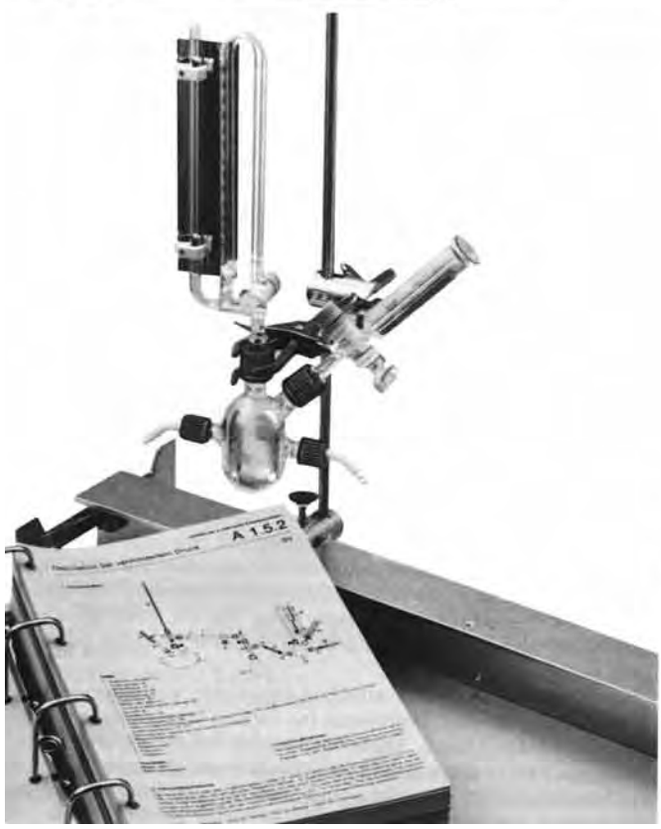
*Livre pour l'instruction de la chimie - seulement en langue allemande*

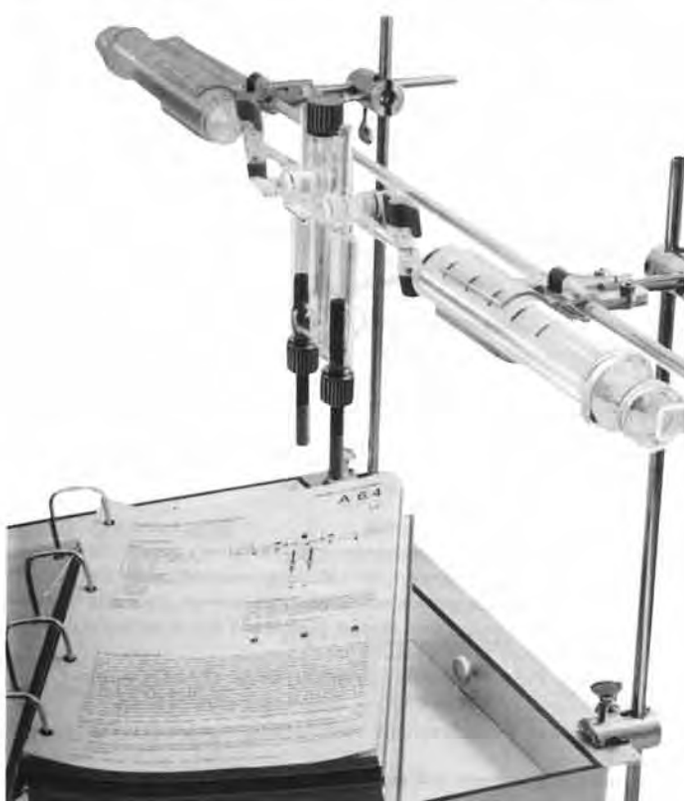
*Cet omnibus contient env. 120 expériences qui sont décrites pour des buts didactiques et en relation avec les kits SVS-Combi-Box proposés aux pages suivantes.*

| | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **8.100.000** |


A153


A12


A152


A64

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**A General and inorganic chemistry/***Chimie générale et inorganique*


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| 5.1.2 | Reduction of ferric oxide with carbon monoxide | 3 |
| 5.2.1 | From mercuric oxide to mercury | 1 |
| 5.2.2 | Analysis of silver oxide | 2 |
| 5.3 | Reaction of metals with acids | 1 |
| 5.4 | Corrosion of iron | 2 |
| **A 6 Halogens and compounds of halogen** | | |
| *Les Halogènes et composés halogénés* | | |
| 6.1 | Production and properties of chlorine | 3 |
| 6.2 | Production and properties of chlorgydric acid gas | 4 |
| 6.3 | Solubity of chlorhydric acid gas in water | 3 |
| 6.4 | Electrolysis of hydrochloric acid | 3 |
| 6.5 | Reaction of chlorine with sodium | 1 |
| **A 7 Sulphur and sulphur compounds** | | |
| *Le Soufre et composés sulfurés* | | |
| 7.1 | From sulphur to sulphurous acid | 2 |
| 7.2 | Roasting process | 2 |
| 7.3 | Production and properties of sulphur dioxide | 1 |
| 7.4 | Contact process | 1 |
| 7.5 | Production and properties of hydrogen sulphide | 1 |
| 7.6 | Reaction of hydrogen sulphide with heavy metal ions | 2 |


**A General and inorganic chemistry/***Chimie générale et inorganique*


| Section | Tests | Construction kit |
|---|---|---|
| **A 8 Nitrogen, phosphorous and their compounds** | | |
| *l'Azote, le phosphore et leurs composés* | | |
| 8.1 | Synthesis of ammonia acc. to Haber-Bosch | 2 |
| 8.2 | Production of ammonia out of ammonium salts | 1 |
| 8.3 | Solubility of ammonia in water | 3 |
| 8.4 | Quantitative determination of nitrogen in ammonium salts | 4 |
| 8.5 | Production of nitric acid out of nitrates | 4 |
| 8.6 | Combustion of ammonia acc. to Ostwald | 4 |
| 8.7 | Production and properties of nitrogen dioxide | 1 |
| 8.8 | Detection of white phosphorous acc. to Mitscherlich | 1 |
| **A 9 Carbon and its compounds/***Le Carbone et ses composés* | | |
| 9.1 | Production and properties of carbon dioxide | 1 |
| 9.2 | Carbon dioxide out of magnesium carbonate | 1 |
| 9.3 | Absorption of benzene and bromine on activated carbon | 3 |
| **A 10 Protection of environment/***La protection de l'environnement* | | |
| 10.1 | Detection of sulphur dioxide, during the combustion of fuel oil | 2 |
| 10.2 | Effect of sulphur dioxide on stones and metallic material | 3 |
| 10.3 | Washing out of sulphur dioxide with a calcium carbonate solution | 2 |
| 10.4 | Cleansing of oil-contaminated water | 2 |
| 10.5 | Combustion or decomposition of polyvinylchloride (PVC) respectively | 2 |

**B. Organic chemistry. /** *Chimie organique*

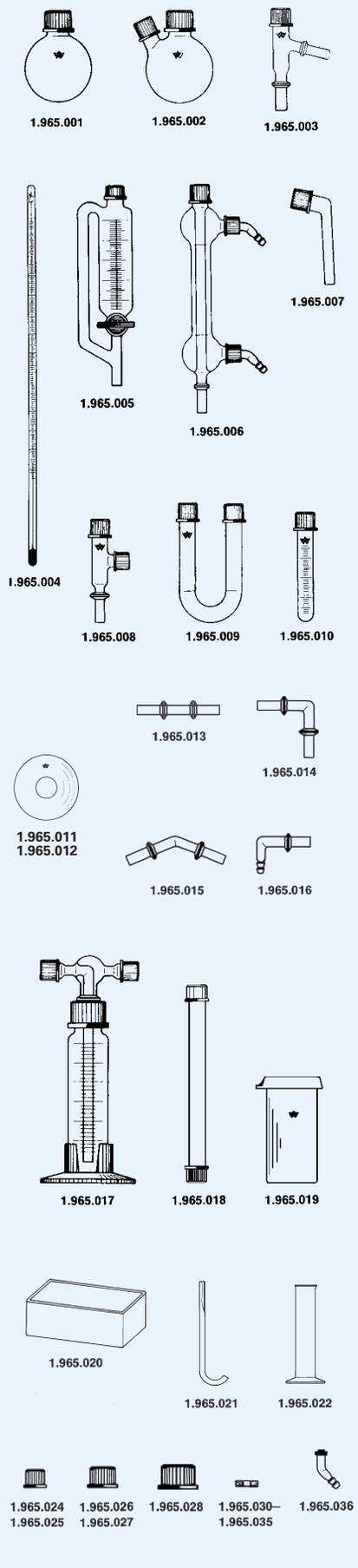
| Section | Tests | Construction kit |
|---|---|---|
| **B 1 Aliphatic hydrocarbons/***Hydrocarbures aliphatiques* | | |
| 1.1 | Detection of carbon and hydrogen in gaseous and liquid hxdrocarbons | 2 |
| 1.2 | Detection of carbon and hydrogen in solid hydrocarbons | 1,4 |
| | Production and properties of methane | 1,3 |
| | 1.3.1 out of aluminium carbide | 1 |
| | 1.3.2 out of sodium acetate and sodium hydroxide | 1 |
| 1.4 | Fractionated distillation of petroleum | 2 |
| 1.5 | Production and properties of ethene | 1 |
| 1.6 | Production and properties of ethine | 2 |
| 1.7 | Formation of acetylide | 2 |
| 1.8 | Catalytic cracking and paraffin oil | 2 |
| **B 2 Halogen alkanes/***Les Halogènes alcanès* | | |
| 2.1 | Bromizing of hexane | 4 |
| 2.2 | Production of tri-iodine-methane (idoform) | 4 |
| **B 3 Alkanoles (Alcohols)/***Les alcools* | | |
| 3.1 | Production of ethanol through fermentation of glucose | 1 |
| 3.2 | Reaction of ethanol with sodium (formation of alcoholate) | 1 |
| 3.3 | Alcohol test reaction | 2 |
| **B 4 Alkanales (Aldehydes)/***Les aldehydes* | | |
| 4.1 | Production of methanol out of methanol | 2 |
| 4.2 | Production of ethanol through dehydrogenation of ethanol | 2 |
| 4.3 | Addition of ammonia on ethanol | 3 |
| 4.4 | Reducing effect of the alkanales | 2 |
| 4.5 | Condensation reactions of the alkanales (aldehydes) | 2 |
| **B 5 Alkanones (Ketones)/***Les acétones* | | |
| 5.1 | Production of propanone (acetone) | 2 |
| 5.2 | Propanone as solvent | 2 |
| **B 6 Alkane acids (Carbonic acids)/***Les acides carboniques* | | |
| 6.1 | Production and properties of formic acid | 1 |
| 6.2 | Production of acetic acid | 2 |
| | 6.2.1 out of ethanol | 2 |
| | 6.2.2 out of sodium acetate | 2 |
| 6.3 | Comparison of methane acid and ethane acid with regard to the reactivity with metals | 4 |

**B. Organic chemistry. /** *Chimie organique*

| Section | Tests | Construction kit |
|---|---|---|
| **B 7 Ester/***Les ésthers* | | |
| 7.1 | Production of ester | |
| | 7.1.1 Production of acetic acid ethyl ester | 2 |
| | 7.1.2 Production of boric acid trimethyl ester | 1 |
| 7.2 | Hydrolysis of acetic acid ethyl ester | 4 |
| 7.3 | Extraction of oil out of peanut kernels | 4 |
| 7.4 | Hydrolysis of fat | 4 |
| **B 8 Ether/***Les éthers* | | |
| 8.1 | Production of diethylether | 1 |
| 8.2 | Properties of diethylether | 4 |
| **B 9 Benzene and derivates/***Le Benzène et les dérivés* | | |
| 9.1 | Bromizing of benzene | 2 |
| 9.2 | Nitration of benzene | 2 |
| 9.3 | Production of aniline | 3 |
| 9.4 | Production of bromine toluol | 4 |
| 9.5 | Production of benzyl bromide | 4 |
| 9.6 | Production of benzoic acid | 2 |
| 9.7 | Water vapour volatility of benzoic acid | 1 |
| **B 10 Carbohydrates/***Les carbohydrates* | | |
| 10.1 | Hydrolysis of starch | 2 |
| 10.2 | Hydrolysis of cellulose | 2 |
| **B 11 Dyes/***Les colorants* | | |
| 11.1 | Di-acotation of aniline and coupling reactions | 3 |
| 11.2 | Production of fluoresceine | 1 |
| **B 12 Plastics/***Les plastiques* | | |
| 12.1 | Vacuum deep-drawing technique | 1 |
| 12.2 | Polymerization of acrylic acid | 1 |
| 12.3 | Polymerization of acryl nitrile | 4 |
| 12.4 | Production of a polyacryl nitrile fibre | 3 |
| 12.5 | Depolymerization | 4 |
| 12.6 | Production and hardening of a resol | 2 |

**C. Special fields. /** *Secteurs spéciaux*

| Section | Tests | Construction kit |
|---|---|---|
| **C 1 Chromatography/***La chromatographie* | | |
| 1.1 | Chromatographic separation of chlorophylls | |
| | 1.1.1 with aluminium oxide, calcium-carbonate and icing sugar | 2 |
| | 1.1.2 with siliceous gel | 2 |
| 1.2 | Chromatographic separation of synthetic colourants | 2 |
| **C 2 Diffusion und osmosis/***La diffusion et l'osmose* | | |
| 2.1 | Diffusion of chlorhydric acid gas and ammonia | 3 |
| 2.2 | Osmosis | 3 |
| **C 3 Exchange of ions/***L'échangeur d'ions* | | |
| 3.1 | Exchange of cations | 2 |
| 3.2 | Exchange of anions | 2 |
| 3.3 | Water softener | 2 |




**SVS-Combi Box, Set 1,**
made of borosilicate glass, packed in foam stuff beds and cardboard box

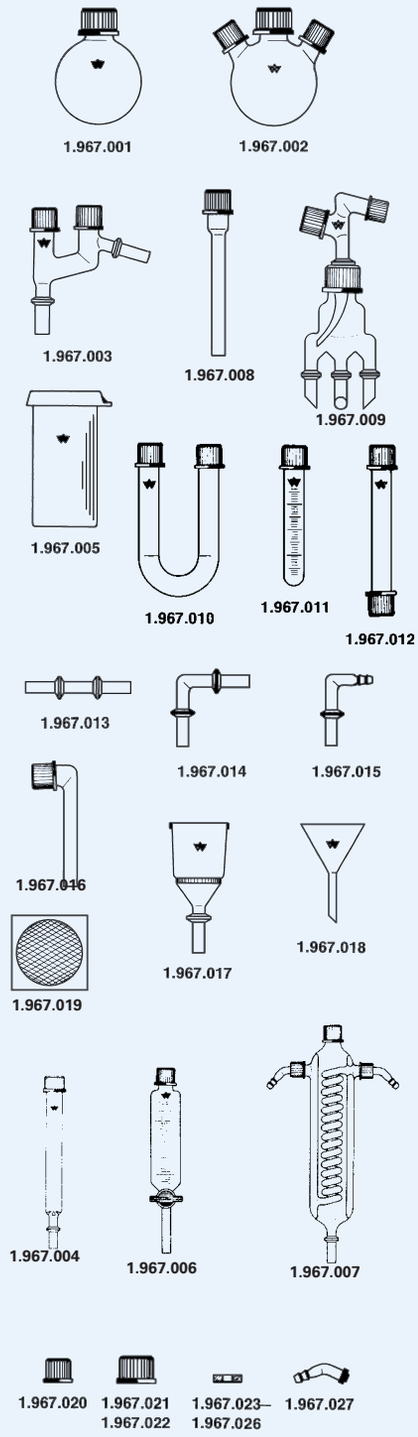
***Coffret d'expérimentation SVS-Combi Box, Kit 1,***
*en verre borosilicaté, livré dans une boite en carton*

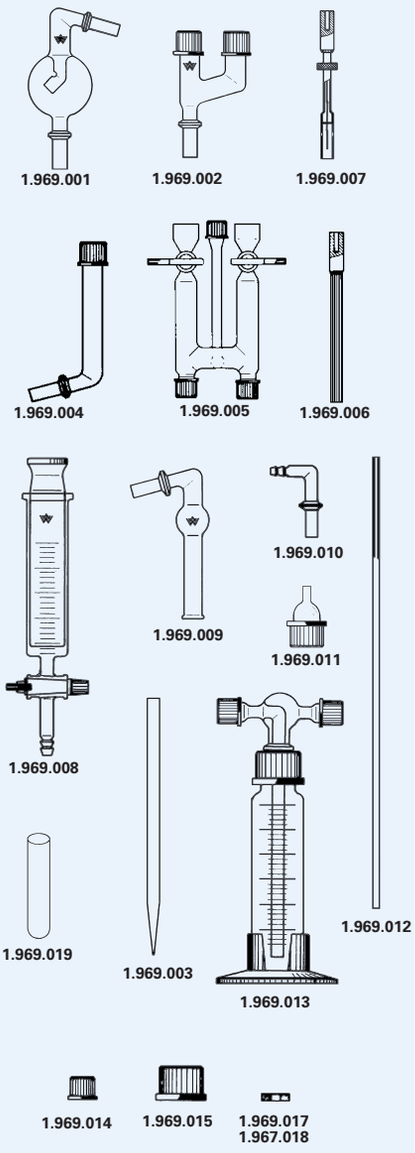
| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete/*Complet* | **1.965.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Flask, round bottom, 100 ml, with GL 25/12 | **1.965.001** |
| 2 Flask, 100 ml, center neck GL 25/12, side neck, angled GL 18/10 | **1.965.002** |
| 1 Recovery head, 1 FA 12, 1 FA 10, 1 GL 18/6 | **1.965.003** |
| 1 Thermometer, solid stem, range - 10 to + 250 °C : 1 °C | **1.965.004** |
| 1 Dropping funnel, with pressure equalizing, cylindrical, graduated, with ST stopcock, 50 ml, GL 18 | **1.965.005** |
| 1 Liebig condenser, 160 mm, 1 GL 18/10, 1 FA 10, 2 GL 14/6 with 2 hose connection made of polypropylene | **1.965.006** |
| 1 Delivery adapter inlet tube, bent, 1 GL 18/10 | **1.965.007** |
| 1 Adapter, straight, with side tube, 1 GL 18/10, 1 FA 10, 1 GL 14/6 | **1.965.008** |
| 1 U-tube, 2 GL 18/10 | **1.965.009** |
| 2 Test tubes, graduated, 10 ml, 1 GL 18/10 | **1.965.010** |
| 2 Isoplan-safety discs, 19 mm bore, (resistant up to 750 °C) | **1.965.011** |
| 2 Isoplan-safety discs, 25 mm bore, (resistant up to 750 °C) | **1.965.012** |
| 2 Connection tubes, straight, 2 FA 10 | **1.965.013** |
| 1 Connection tube, 90° bent, 2 FA 10 | **1.965.014** |
| 1 Connection tube, 120° bent, 2 FA 10 | **1.965.015** |
| 1 Connection tube, 90° bent, with hose connection, 1 FA 10 | **1.965.016** |
| 2 Wash bottles, graduated, 100 ml, with plastic base 1 GL 32/18,, with head 2 GL 18/10 | **1.965.017** |
| 1 Reaction tube, 2 GL 25/10 | **1.965.018** |
| 1 Container, filled with 40 boiling balls | **1.965.019** |
| 1 Pneumatic tank, made of SAN, 340 x 230 x 94 mm with cover | **1.965.020** |
| 1 Gas outlet tube, bent | **1.965.021** |
| 1 Jar with ground cover 200 x 40 mm | **1.965.022** |
| 2 Screw caps, top with hole, GL 14 | **1.965.024** |
| 6 Screw caps, top with hole, GL 18 | **1.965.025** |
| 3 Screw caps, top with hole, GL 25 | **1.965.026** |
| 2 Screw caps, top with hole, GL 32 | **1.965.027** |
| 1 Screw cap, top closed, GL 18, with PTFE washer | **1.965.028** |
| 1 Gasket, silicone rubber, with PTFE washer 12 x 6 for GL 14, FA 6 | **1.965.030** |
| 1 Gasket, silicone rubber, with PTFE washer 16 x 6 for GL 18, FA 6 | **1.965.031** |
| 6 Gaskets, silicone rubber, with PTFE washer 16 x 10 for GL 18, FA 10 | **1.965.032** |
| 2 Gaskets, silicone rubber, with PTFE washer 22 x 10 for GL 25, FA 10 | **1.965.033** |
| 2 Gaskets, silicone rubber, with PTFE washer 22 x 12 for GL 25, FA 12 | **1.965.034** |
| 2 Gaskets, silicone rubber, with PTFE washer 29 x 18 for GL 32, FA 18 | **1.965.035** |
| 2 Hose connections, bent, GL 14, made of polypropylene | **1.965.036** |

**SVS-Combi Box, Set 2,**
made of borosilicate glass, packed in foam stuff beds and cardboard box

***Coffret d'expérimentation SVS-Combi Box, Kit 2,***
*en verre borosilicaté, livré dans une boite en carton*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **1.967.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Flask, round bottom, 100 ml, with GL 25/12 | **1.967.001** |
| 1 Flask, 100 ml, center neck GL 25/12, two side neck, angled, GL 18/6, GL 18/10 | **1.967.002** |
| 1 Claisen head, 1 FA 12, 1 FA 10, 1 GL 18/10, 1 GL 18/6 | **1.967.003** |
| 1 Fractionating column, Hempel, 200 mm, 1 FA 12, 1 GL 25/12 | **1.967.004** |
| 1 Container filled with raschig rings 3 x 3 mm | **1.967.005** |
| 1 Dropping funnel, cylindrical, graduated, with ST stopcock, 50 ml, GL 18/10 | **1.967.006** |
| 1 Jacketed coil condenser, 200 mm, 1 GL 18/10, 1 FA 10, 2 GL 14/6 with 2 hose connection made of polypropylene | **1.967.007** |
| 1 Delivery adapter inlet tube, straight, 1 GL 18/10 | **1.967.008** |
| 1 Distilling receiver, Bredt, 1 GL 18/10, 1 GL 25/12, 1 GL 14/6 with 4 FA 10 | **1.967.009** |
| 1 U-tube, 2 GL 18/10 | **1.967.010** |
| 4 Test tubes, graduated, 10 ml, 1 GL 18/10 | **1.967.011** |
| 1 Reaction tube, small, 2 GL 18/10 | **1.967.012** |
| 1 Connection tubes, straight, 2 FA 10 | **1.967.013** |
| 1 Connection tube, 90° bent, 2 FA 10 | **1.967.014** |
| 1 Connection tube, 90° bent, with hose connection, 1 FA 10 | **1.967.015** |
| 1 Gas inlet tube, 1 GL 18/6 | **1.967.016** |
| 1 Filter funnel, 50 ml, porosity P2, 1 FA 10 | **1.967.017** |
| 1 Funnel, glass, 70 mm Ø | **1.967.018** |
| 1 Ceramic-plate 135 x135 mm | **1.967.019** |
| 2 Screw caps, top with hole, GL 14 | **1.967.020** |
| 8 Screw caps, top with hole, GL 18 | **1.967.021** |
| 2 Screw caps, top with hole, GL 25 | **1.967.022** |
| 1 Gasket, silicone rubber, with PTFE washer 12 x 6 for GL 14, FA 6 | **1.967.023** |
| 1 Gasket, silicone rubber, with PTFE washer 16 x 6 for GL 18, FA 6 | **1.967.024** |
| 8 Gaskets, silicone rubber, with PTFE washer 16 x 10 for GL 18, FA 10 | **1.967.025** |
| 2 Gaskets, silicone rubber, with PTFE washer 22 x 12 for GL 25, FA 12 | **1.967.026** |
| 2 Hose connections, bent, GL 14, made of polypropylene | **1.967.027** |






**SVS-Combi Box, Set 3,**
made of borosilicate glass, packed in foam stuff beds and cardboard box

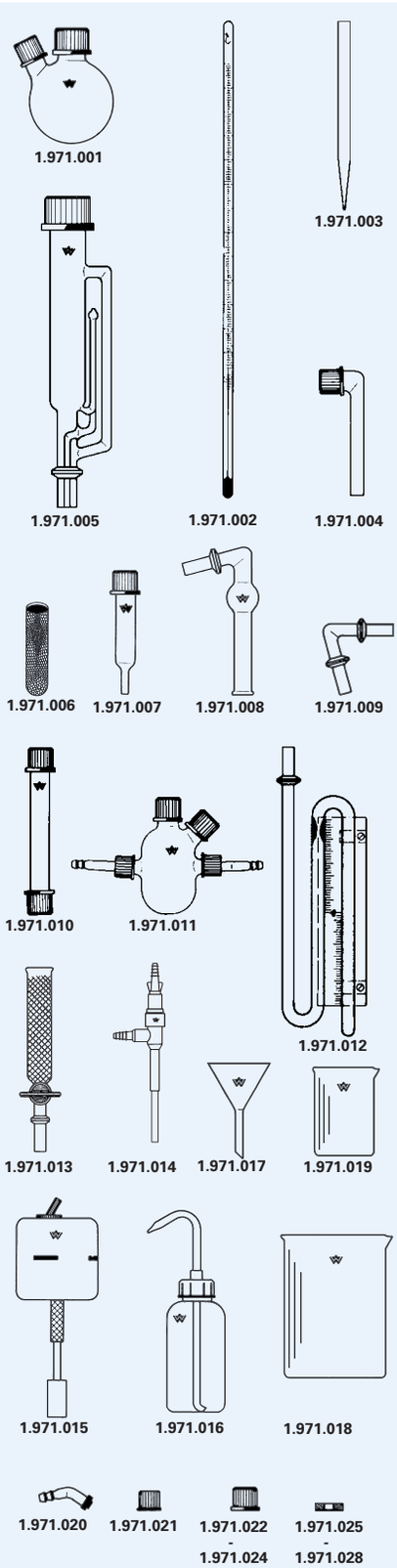
***Coffret d'expérimentation SVS-Combi Box, Kit 3,***
*en verre borosilicaté, livré dans une boite en carton*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **1.969.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Splash head, bent, 1 FA 12, 1 FA 10 | **1.969.001** |
| 1 Distilling head, 1 FA 12, 2 GL 18/10 | **1.969.002** |
| 1 Air leak tube, outer Ø 10 mm | **1.969.003** |
| 1 Adapter, bent 105°, 1 GL 18/10, 1 FA 10 | **1.969.004** |
| 1 Electrolysis apparatus, 2 GL 18/10 | **1.969.005** |
| 2 Coal electrodes, outer Ø 10 mm | **1.969.006** |
| 2 Nickel electrodes, outer Ø 10 mm<br>(On request we deliver platin electrodes against surcharge) | **1.969.007** |
| 2 Gas syringue with ST-stopcock, 100 ml | **1.969.008** |
| 1 Drying tube, bent, 1 FA 10 | **1.969.009** |
| 1 Connection tube, 90° bent, with hose connection, 1 FA 10 | **1.969.010** |
| 1 Screw-thread with glass part of osmosis apparatus, 1 GL 32/18 | **1.969.011** |
| 1 Capillary tube, inner Ø 1 mm, length 500 mm | **1.969.012** |
| 1 Wash bottle, graduated, 100 ml, with plastic base,<br>1 GL 32/18 with head 2 GL 18/10 | **1.969.013** |
| 4 Screw caps, top with hole, GL 18 | **1.969.014** |
| 1 Screw caps, top with hole, GL 32 | **1.969.015** |
| 4 Gaskets, silicone rubber,<br>with PTFE washer 16 x 10 for GL 18, FA 10 | **1.969.017** |
| 1 Gaskets, silicone rubber,<br>with PTFE washer 29 x 18 for GL 32, FA 18 | **1.969.018** |
| 1 Test tube, Fiolax-glass, 30 x 200 mm | **1.969.019** |

**SVS-Combi Box, Set 4,**
made of borosilicate glass, packed in foam stuff beds and cardboard box

***Coffret d'expérimentation SVS-Combi Box, Kit 4,***
*en verre borosilicaté, livré dans une boite en carton*

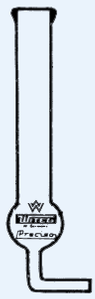
| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **1.971.000** |
| **Spare parts /** *Pièces de rechange* | |
| 1 Flask, 100 ml, center neck GL 25/12, side neck, angled GL 18/10 | **1.971.001** |
| 1 Thermometer, solid stem, range - 10 to + 360 °C : 1 °C | **1.971.002** |
| 1 Air leak tube, outer Ø 10 mm | **1.971.003** |
| 1 Gas inlet tube, 1 GL 14/6 | **1.971.004** |
| 1 Soxhlet extractor, 30 ml capacity for extraction thimbles, 90 x 19 mm, 1 GL 32/10, 1 FA 12 | **1.971.005** |
| 3 Extraction thimbles, for 30 ml extractor, 90 x 19 mm | **1.971.006** |
| 1 Drying tube, straight, 1 GL 18/10, 1 FA 6 | **1.971.007** |
| 1 Drying tube, bent, 1 FA 10 | **1.971.008** |
| 1 Connection tube, bent 75°, 2 FA 10 | **1.971.009** |
| 1 Reaction tube, small, 2 GL 18/10 | **1.971.010** |
| 1 Vacuum receiver, 2 GL 18/10, 2 GL 14/6 with 2 hose connections, made of polypropylene | **1.971.011** |
| 1 Manometer, mercury, with movable mirror glass scale, 1 FA 10 | **1.971.012** |
| 1 Tube with stopcock, filled with foam stuff, 1 FA 10 | **1.971.013** |
| 1 Filter pump, made of polypropylene with built-in valve and 2 hose connections | **1.971.014** |
| 1 Stirrer motor, 220 V, with holding rod and stirring blade | **1.971.015** |
| 1 Wash bottle, 100 ml, made of polyethylene | **1.971.016** |
| 1 Funnel, outer Ø 70 mm, made of polyethylene | **1.971.017** |
| 1 Beaker, low form, 600 ml, graduated | **1.971.018** |
| 1 Beaker, tall form, 100 ml, graduated | **1.971.019** |
| 2 Hose connection, bent, GL 14, made of polypropylene | **1.971.020** |
| 2 Screw caps, top with hole, GL 14 | **1.971.021** |
| 4 Screw caps, top with hole, GL 18 | **1.971.022** |
| 1 Screw caps, top with hole, GL 25 | **1.971.023** |
| 1 Screw caps, top with hole, GL 32 | **1.971.024** |
| 2 Gaskets, silicone rubber, with PTFE washer 12 x 6 for GL 14, FA 6 | **1.971.025** |
| 4 Gaskets, silicone rubber, with PTFE washer 16 x 10 for GL 18, FA 10 | **1.971.026** |
| 1 Gaskets, silicone rubber, with PTFE washer 22 x 12 for GL 25, FA 12 | **1.971.027** |
| 1 Gaskets, silicone rubber, with PTFE washer 29 x 18 for GL 32, FA 18 | **1.971.028** |



## Drying tubes
## *Tubes de séchage*



2.110.***



2.112.***

**Drying tubes,** with 1 bulb, straight, made of borosilicate glass

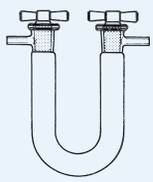
***Tubes de séchage,*** *droit à une ampoule, en verre borosilicaté*

| Length<br>*Longueur*<br>mm | inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 13 | **2.110.100** |
| 125 | 13 | **2.110.125** |
| 150 | 13 | **2.110.150** |
| 200 | 18 | **2.110.200** |

**Drying tubes,** with 1 bulb, bent, made of borosilicate glass

***Tubes de séchage,*** *coudé à une ampoule, en verre borosilicaté*

| Length<br>*Longueur*<br>mm | inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 13 | **2.112.100** |
| 125 | 13 | **2.112.125** |
| 150 | 13 | **2.112.150** |
| 200 | 18 | **2.112.200** |

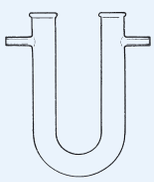


2.114.***

**Drying tubes,** U-shaped, with hollow glass stoppers, made of borosilicate glass

***Tubes de séchage,*** *en U avec bouchon à rodage, en verre borosilicaté*

| Length<br>*Longueur*<br>mm | inner Ø<br>*Ø int.*<br>mm | ST<br>*Rodage* | Order No.<br>*N° de code* |
|---|---|---|---|
| 80 | 9 | 10/19 | **2.114.080** |
| 100 | 13 | 12/21 | **2.114.100** |
| 125 | 16 | 14/23 | **2.114.125** |
| 150 | 18 | 19/26 | **2.114.150** |
| 250 | 18 | 19/26 | **2.114.250** |



2.115.***

**Drying tubes,** U-shaped, with side connections, made of borosilicate glass

***Tubes de séchage,*** *en U avec raccords sur les extrémités, en verre borosilicaté*

| Length<br>*Longueur*<br>mm | inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 80 | 9 | **2.115.080** |
| 100 | 13 | **2.115.100** |
| 125 | 16 | **2.115.125** |
| 150 | 18 | **2.115.150** |
| 250 | 18 | **2.115.250** |

See also order No. 5.624.*** /

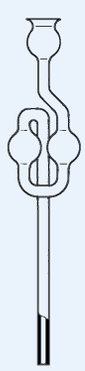


2.116.***

**U-tubes**, made of borosilicate glass

***Tubes de séchage,*** *en U simple en verre borosilicaté*

| Length<br>*Longueur*<br>mm | inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 80 | 9 | **2.116.080** |
| 100 | 13 | **2.116.100** |
| 125 | 16 | **2.116.125** |
| 150 | 18 | **2.116.150** |
| 250 | 18 | **2.116.250** |



2.118.***

**Thistle funnel,** with bend and two bulbs, made of borosilicate glass

***Entonnoir à 2 boules de Thistle,*** *en verre borosilicaté*

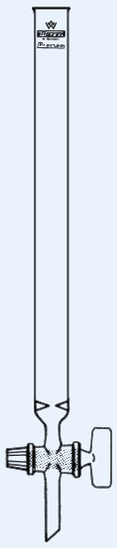
| Height<br>*Hauteur*<br>mm | inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 400 | 6 | **2.118.000** |

## Chromatography
## *Chromatographie*

**Chromatography-columns,** ST-stopcock, with solid plug and screw-thread retaining nut, with indentations above the stopcock for a wad of cotton, made of borosilicate glass

***Colonnes de chromatographie,***
*en verre borosilicaté avec robinet à clé en verre, version simple*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur effective*<br>mm | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 15 | 200 | 2.5 | **2.119.001** |
| 15 | 35 | 200 | 2.5 | **2.119.002** |
| 15 | 70 | 400 | 2.5 | **2.119.003** |
| 20 | 125 | 400 | 2.5 | **2.119.004** |
| 30 | 280 | 400 | 2.5 | **2.119.005** |
| 20 | 190 | 600 | 2.5 | **2.119.006** |
| 30 | 430 | 600 | 2.5 | **2.119.007** |
| 40 | 1000 | 800 | 2.5 | **2.119.008** |



**2.119.*****

**Chromatography-columns,** ST-PTFE-stopcock, with solid plug and screw-thread retaining nut, with indentations above the stopcock for a wad of cotton, made of borosilicate glass

***Colonnes de chromatographie,***
*en verre borosilicaté avec robinet à clé en téflon, version simple*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur effective*<br>mm | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 15 | 200 | 2.5 | **2.120.001** |
| 15 | 35 | 200 | 2.5 | **2.120.002** |
| 15 | 70 | 400 | 2.5 | **2.120.003** |
| 20 | 125 | 400 | 2.5 | **2.120.004** |
| 30 | 280 | 400 | 2.5 | **2.120.005** |
| 20 | 190 | 600 | 2.5 | **2.120.006** |
| 30 | 430 | 600 | 2.5 | **2.120.007** |
| 40 | 1000 | 800 | 2.5 | **2.120.008** |

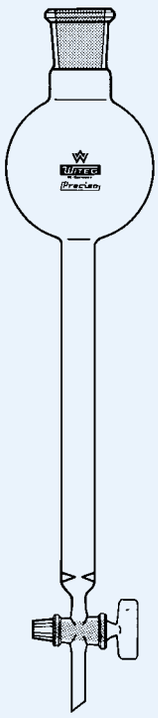


**2.120.*****

**Chromatography-columns,** with PTFE needle valve stopcock, with indentations above the stopcock for a wad of cotton, made of borosilicate glass

***Colonnes de chromatographie,***
*en verre borosilicaté à vanne et clé en téflon, version simple*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur effective*<br>mm | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 15 | 200 | 2.5 | **2.121.001** |
| 15 | 35 | 200 | 2.5 | **2.121.002** |
| 15 | 70 | 400 | 2.5 | **2.121.003** |
| 20 | 125 | 400 | 2.5 | **2.121.004** |
| 30 | 280 | 400 | 2.5 | **2.121.005** |
| 20 | 190 | 600 | 2.5 | **2.121.006** |
| 30 | 430 | 600 | 2.5 | **2.121.007** |
| 40 | 1000 | 800 | 2.5 | **2.121.008** |



**2.122.*** - 2.123.***

**Chromatography-columns,** ST-stopcock, with solid plug and screw-thread retaining nut, with indentations above the stopcock for a wad of cotton, with socket ST 29/32, made of borosilicate glass

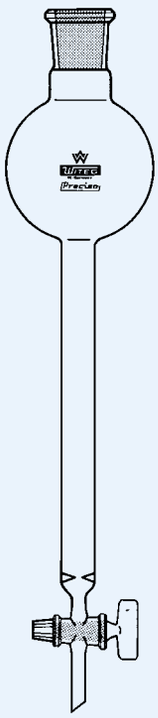
***Colonnes de chromatographie***
*en verre borosilicaté avec réservoir à rodage 29/32 et robinet à clé en verre.*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Reservoir<br>*Réservoir*<br>ml | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 15 | 200 | 250 | 2.5 | **2.122.001** |
| 15 | 35 | 200 | 250 | 2.5 | **2.122.002** |
| 20 | 65 | 200 | 250 | 2.5 | **2.122.003** |
| 20 | 125 | 400 | 250 | 2.5 | **2.122.004** |
| 30 | 280 | 400 | 500 | 2.5 | **2.122.005** |
| 20 | 190 | 600 | 250 | 2.5 | **2.122.006** |
| 40 | 750 | 600 | 1000 | 2.5 | **2.122.007** |
| 60 | 1150 | 600 | 2000 | 6.3 | **2.122.008** |
| 60 | 1550 | 800 | 2000 | 6.3 | **2.122.009** |
| 80 | 4500 | 1000 | 4000 | 6.3 | **2.122.010** |

**Chromatography-columns,** ST-PTFE-stopcock, with screw-thread retaining nut, with indentations above the stopcock for a wad of cotton, with socket ST 29/32, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec réservoir à rodage 29/32 et robinet à clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Reservoir<br>*Réservoir*<br>ml | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 15 | 200 | 250 | 2.5 | **2.123.001** |
| 15 | 35 | 200 | 250 | 2.5 | **2.123.002** |
| 20 | 65 | 200 | 250 | 2.5 | **2.123.003** |
| 20 | 125 | 400 | 250 | 2.5 | **2.123.004** |
| 30 | 280 | 400 | 500 | 2.5 | **2.123.005** |
| 20 | 190 | 600 | 250 | 2.5 | **2.123.006** |
| 40 | 750 | 600 | 1000 | 2.5 | **2.123.007** |
| 60 | 1150 | 600 | 2000 | 6.3 | **2.123.008** |
| 60 | 1550 | 800 | 2000 | 6.3 | **2.123.009** |
| 80 | 4500 | 1000 | 4000 | 6.3 | **2.123.010** |



**2.124.***

**Chromatography-columns,** with PTFE needle valve stopcock, with indentations above the stopcock for a wad of cotton, with socket ST 29/32, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec réservoir à rodage 29/32 et vanne à clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Reservoir<br>*Réservoir*<br>ml | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 15 | 200 | 250 | 2.5 | **2.124.001** |
| 15 | 35 | 200 | 250 | 2.5 | **2.124.002** |
| 20 | 65 | 200 | 250 | 2.5 | **2.124.003** |
| 20 | 125 | 400 | 250 | 2.5 | **2.124.004** |
| 30 | 280 | 400 | 500 | 2.5 | **2.124.005** |
| 20 | 190 | 600 | 250 | 2.5 | **2.124.006** |
| 40 | 750 | 600 | 1000 | 2.5 | **2.124.007** |
| 60 | 1150 | 600 | 2000 | 6.3 | **2.124.008** |
| 60 | 1550 | 800 | 2000 | 6.3 | **2.124.009** |
| 80 | 4500 | 1000 | 4000 | 6.3 | **2.124.010** |

**Chromatography-columns,** ST-stopcock, with solid plug and screw-thread retaining nut, with indentations above the stopcock for a wad of cotton, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec col à rodage femelle et robinet à clé en verre*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 15 | 200 | 14/23 | 2.5 | **2.125.001** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.125.002** |
| 30 | 130 | 600 | 29/32 | 2.5 | **2.125.003** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.125.004** |

**Chromatography-columns,**
ST-PTFE-stopcock, screw-thread retaining nut, with indentations above the stopcock for a wad of cotton, made of borosilicate glass

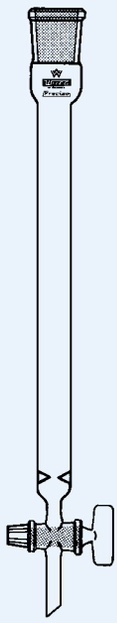
***Colonnes de chromatographie***
*en verre borosilicaté avec col à rodage femelle et robinet à clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 15 | 200 | 14/23 | 2.5 | **2.126.001** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.126.002** |
| 30 | 130 | 600 | 29/32 | 2.5 | **2.126.003** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.126.004** |

**Chromatography-columns,**
with PTFE needle valve stopcock, with indentations above the stopcock for a wad of cotton, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec col à rodage femelle et vanne à clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 15 | 200 | 14/23 | 2.5 | **2.127.001** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.127.002** |
| 30 | 130 | 600 | 29/32 | 2.5 | **2.127.003** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.127.004** |



**2.126.*****
**-**
**2.127.*****

**Chromatographyc-columns,** with fused-in sintered glass-disc P0 without ST-stopcock, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec verre fritté à porosité 0, sans robinet*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur effective*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 15 | 200 | **2.128.001** |
| 15 | 35 | 200 | **2.128.002** |
| 15 | 70 | 400 | **2.128.003** |
| 20 | 125 | 400 | **2.128.004** |
| 30 | 280 | 400 | **2.128.005** |
| 20 | 190 | 600 | **2.128.006** |
| 30 | 430 | 600 | **2.128.007** |
| 40 | 1000 | 800 | **2.128.008** |

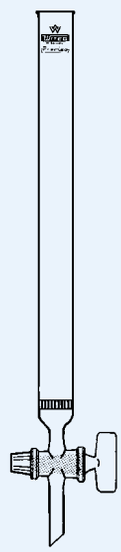


**2.128.*****

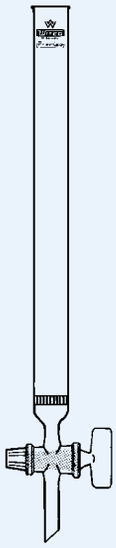
**Chromatography-columns,** with fused-in sintered glass-disc P0, ST-stopcock, with solid plug and screw-thread retaining nut, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec verre fritté à porosité 0 et robinet interchangeable en verre*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur effective*<br>mm | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 15 | 200 | 2.5 | **2.129.001** |
| 15 | 35 | 200 | 2.5 | **2.129.002** |
| 15 | 70 | 400 | 2.5 | **2.129.003** |
| 20 | 125 | 400 | 2.5 | **2.129.004** |
| 30 | 280 | 400 | 2.5 | **2.129.005** |
| 20 | 190 | 600 | 2.5 | **2.129.006** |
| 30 | 430 | 600 | 2.5 | **2.129.007** |
| 40 | 1000 | 800 | 2.5 | **2.129.008** |



**2.129.*****



**2.130.*****

**Chromatography-columns,** with fused-in sintered glass-disc P0, ST-PTFE-stopcock, with screw-thread retaining nut, made of borosilicate glass

***Colonnes de chromatographie*** *en verre borosilicaté avec verre fritté à porosité 0 et robinet interchangeable à clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur effective*<br>mm | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 15 | 200 | 2.5 | **2.130.001** |
| 15 | 35 | 200 | 2.5 | **2.130.002** |
| 15 | 70 | 400 | 2.5 | **2.130.003** |
| 20 | 125 | 400 | 2.5 | **2.130.004** |
| 30 | 280 | 400 | 2.5 | **2.130.005** |
| 20 | 190 | 600 | 2.5 | **2.130.006** |
| 30 | 430 | 600 | 2.5 | **2.130.007** |
| 40 | 1000 | 800 | 2.5 | **2.130.008** |

**Chromatography-columns,** with fused-in sintered glass-disc P0, with PTFE needle valve stopcock, made of borosilicate glass

***Colonnes de chromatographie*** *en verre borosilicaté avec verre fritté à porosité 0 et vanne et clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur effective*<br>mm | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 15 | 200 | 2.5 | **2.131.001** |
| 15 | 35 | 200 | 2.5 | **2.131.002** |
| 15 | 70 | 400 | 2.5 | **2.131.003** |
| 20 | 125 | 400 | 2.5 | **2.131.004** |
| 30 | 280 | 400 | 2.5 | **2.131.005** |
| 20 | 190 | 600 | 2.5 | **2.131.006** |
| 30 | 430 | 600 | 2.5 | **2.131.007** |
| 40 | 1000 | 800 | 2.5 | **2.131.008** |

**Chromatography-columns,** with fused-in sintered glass-disc, P0, ST-stopcock, with solid plug and screw-thread retaining nut, made of borosilicate glass

***Colonnes de chromatographie*** *en verre borosilicaté avec verre fritté à porosité 0, col à rodage femelle et robinet interchangeable à clé en verre*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 8 | 100 | 14/23 | 2.5 | **2.132.001** |
| 15 | 18 | 100 | 14/23 | 2.5 | **2.132.002** |
| 10 | 15 | 200 | 14/23 | 2.5 | **2.132.003** |
| 15 | 35 | 200 | 14/23 | 2.5 | **2.132.004** |
| 20 | 60 | 200 | 29/32 | 2.5 | **2.132.005** |
| 10 | 23 | 300 | 14/23 | 2.5 | **2.132.006** |
| 15 | 50 | 300 | 14/23 | 2.5 | **2.132.007** |
| 20 | 90 | 300 | 29/32 | 2.5 | **2.132.008** |
| 15 | 70 | 400 | 14/23 | 2.5 | **2.132.009** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.132.010** |
| 30 | 280 | 400 | 29/32 | 2.5 | **2.132.011** |
| 20 | 190 | 600 | 29/32 | 2.5 | **2.132.012** |
| 30 | 430 | 600 | 29/32 | 2.5 | **2.132.013** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.132.014** |



**2.132.3****

**Flash Chromatography Columns,** made of borosilicate glass, consisting of column, reservoir and flow regulation valve with PTFE valve stopcock with Superfix safety device

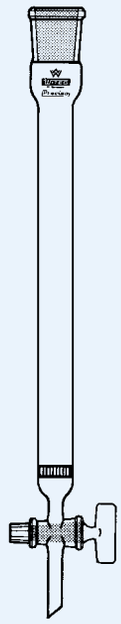
***Colonnes de chromatographie,*** *en verre borosilicaté, consistant un réservoir avec vanne de regulation de debit à clé en téflon et dispositif de sécurité Superfix*

| Column Volume<br>*Volume*<br>ml | Bore of valve<br>*Voie*<br>mm | Reservoir Volume<br>*Volume reservoire*<br>ml | Socket<br>*Cône femelle*<br>ST | Regulation bore<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 100 | 0-3 | 100 | 29/32 | 0-3 | **2.132.301** |
| 200 | 0-3 | 250 | 29/32 | 0-3 | **2.132.302** |
| 400 | 0-3 | 500 | 29/32 | 0-3 | **2.132.304** |
| 600 | 0-3 | 500 | 29/32 | 0-3 | **2.132.306** |
| 1000 | 0-3 | 1000 | 45/40 | 0-3 | **2.132.310** |
| 2000 | 0-3 | 2000 | 45/40 | 0-3 | **2.132.320** |

**Chromatography-columns,** with fused-in sintered glass-disc P0, ST-PTFE-stopcock, screw-thread retaining nut, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec verre fritté à porosité 0, col à rodage femelle et robinet interchangeable à clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 8 | 100 | 14/23 | 2.5 | **2.133.001** |
| 15 | 18 | 100 | 14/23 | 2.5 | **2.133.002** |
| 10 | 15 | 200 | 14/23 | 2.5 | **2.133.003** |
| 15 | 35 | 200 | 14/23 | 2.5 | **2.133.004** |
| 20 | 60 | 200 | 29/32 | 2.5 | **2.133.005** |
| 10 | 23 | 300 | 14/23 | 2.5 | **2.133.006** |
| 15 | 50 | 300 | 14/23 | 2.5 | **2.133.007** |
| 20 | 90 | 300 | 29/32 | 2.5 | **2.133.008** |
| 15 | 70 | 400 | 14/23 | 2.5 | **2.133.009** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.133.010** |
| 30 | 280 | 400 | 29/32 | 2.5 | **2.133.011** |
| 20 | 190 | 600 | 29/32 | 2.5 | **2.133.012** |
| 30 | 430 | 600 | 29/32 | 2.5 | **2.133.013** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.133.014** |



**2.133.*****

**Chromatography-columns,** with fused-in sintered glass-disc P0, with PTFE needle valve stopcock, made of borosilicate glass

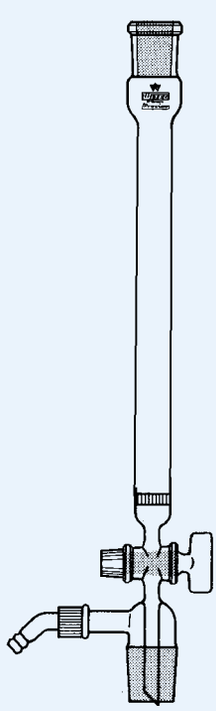
***Colonnes de chromatographie***
*en verre borosilicaté avec verre fritté à porosité 0, col à rodage femelle et vanne à clé en téflon*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 8 | 100 | 14/23 | 2.5 | **2.134.001** |
| 15 | 18 | 100 | 14/23 | 2.5 | **2.134.002** |
| 10 | 15 | 200 | 14/23 | 2.5 | **2.134.003** |
| 15 | 35 | 200 | 14/23 | 2.5 | **2.134.004** |
| 20 | 60 | 200 | 29/32 | 2.5 | **2.134.005** |
| 10 | 23 | 300 | 14/23 | 2.5 | **2.134.006** |
| 15 | 50 | 300 | 14/23 | 2.5 | **2.134.007** |
| 20 | 90 | 300 | 29/32 | 2.5 | **2.134.008** |
| 15 | 70 | 400 | 14/23 | 2.5 | **2.134.009** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.134.010** |
| 30 | 280 | 400 | 29/32 | 2.5 | **2.134.011** |
| 20 | 190 | 600 | 29/32 | 2.5 | **2.134.012** |
| 30 | 430 | 600 | 29/32 | 2.5 | **2.134.013** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.134.014** |

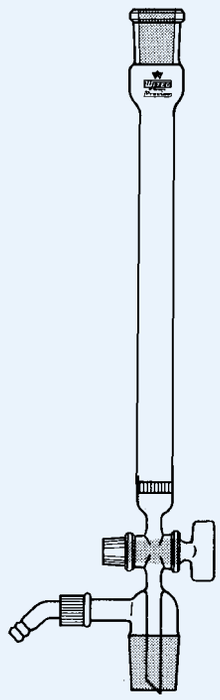
**Chromatography-columns,** with fused-in sintered glass-disc P0, ST-stopcock, with solid plug and screw-thread retaining nut, with vacuum connection and drip tip, made of borosilicate glass

***Colonnes de chromatographie***
*en verre borosilicaté avec verre fritté à porosité 0, col à rodage femelle, robinet interchangeable à clé en verre et raccord à vis pour vide*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 8 | 100 | 14/23 | 2.5 | **2.135.001** |
| 15 | 18 | 100 | 14/23 | 2.5 | **2.135.002** |
| 10 | 15 | 200 | 14/23 | 2.5 | **2.135.003** |
| 15 | 35 | 200 | 14/23 | 2.5 | **2.135.004** |
| 20 | 60 | 200 | 29/32 | 2.5 | **2.135.005** |
| 30 | 80 | 200 | 29/32 | 2.5 | **2.135.006** |
| 10 | 23 | 300 | 14/23 | 2.5 | **2.135.007** |
| 15 | 50 | 300 | 14/23 | 2.5 | **2.135.008** |
| 20 | 90 | 300 | 29/32 | 2.5 | **2.135.009** |
| 15 | 70 | 400 | 14/23 | 2.5 | **2.135.010** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.135.011** |
| 30 | 280 | 400 | 29/32 | 2.5 | **2.135.012** |
| 20 | 190 | 600 | 29/32 | 2.5 | **2.135.013** |
| 30 | 430 | 600 | 29/32 | 2.5 | **2.135.014** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.135.015** |



**2.135.*****
**-**
**2.136.*****



**2.135.*** - 2.136.*****

**Chromatography-columns,** with fused-in sintered glass-disc, P0, ST-PTFE-stopcock, with solid plug and screw-thread retaining nut, with vacuum connection and drip tip, made of borosilicate glass

***Colonnes de chromatographie*** *en verre borosilicaté avec verre fritté à porosité 0, robinet interchangeable à clé en téflon et raccord à vis pour vide*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 8 | 100 | 14/23 | 2.5 | **2.136.001** |
| 15 | 18 | 100 | 14/23 | 2.5 | **2.136.002** |
| 10 | 15 | 200 | 14/23 | 2.5 | **2.136.003** |
| 15 | 35 | 200 | 14/23 | 2.5 | **2.136.004** |
| 20 | 60 | 200 | 29/32 | 2.5 | **2.136.005** |
| 30 | 80 | 200 | 29/32 | 2.5 | **2.136.006** |
| 10 | 23 | 300 | 14/23 | 2.5 | **2.136.007** |
| 15 | 50 | 300 | 14/23 | 2.5 | **2.136.008** |
| 20 | 90 | 300 | 29/32 | 2.5 | **2.136.009** |
| 15 | 70 | 400 | 14/23 | 2.5 | **2.136.010** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.136.011** |
| 30 | 280 | 400 | 29/32 | 2.5 | **2.136.012** |
| 20 | 190 | 600 | 29/32 | 2.5 | **2.136.013** |
| 30 | 430 | 600 | 29/32 | 2.5 | **2.136.014** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.136.015** |

**Chromatography-columns,** with fused-in sintered glass-disc P0, with PTFE needle valve stopcock, with vacuum connection and drip tip, made of borosilicate glass

***Colonnes de chromatographie*** *en verre borosilicaté avec verre fritté à porosité 0, vanne à clé en téflon et raccord à vis pour vide*

| Column inner Ø<br>*Ø int*<br>mm | Column capacity<br>*Capacité*<br>ml | Effective length<br>*Longueur*<br>mm | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10 | 8 | 100 | 14/23 | 2.5 | **2.137.001** |
| 15 | 18 | 100 | 14/23 | 2.5 | **2.137.002** |
| 10 | 15 | 200 | 14/23 | 2.5 | **2.137.003** |
| 15 | 35 | 200 | 14/23 | 2.5 | **2.137.004** |
| 20 | 60 | 200 | 29/32 | 2.5 | **2.137.005** |
| 30 | 80 | 200 | 29/32 | 2.5 | **2.137.006** |
| 10 | 23 | 300 | 14/23 | 2.5 | **2.137.007** |
| 15 | 50 | 300 | 14/23 | 2.5 | **2.137.008** |
| 20 | 90 | 300 | 29/32 | 2.5 | **2.137.009** |
| 15 | 70 | 400 | 14/23 | 2.5 | **2.137.010** |
| 20 | 125 | 400 | 29/32 | 2.5 | **2.137.011** |
| 30 | 280 | 400 | 29/32 | 2.5 | **2.137.012** |
| 20 | 190 | 600 | 29/32 | 2.5 | **2.137.013** |
| 30 | 430 | 600 | 29/32 | 2.5 | **2.137.014** |
| 40 | 1000 | 800 | 29/32 | 2.5 | **2.137.015** |



**2.147.000**



**2.147.112**

**Sprayers for TLC chromatography**, made of borosilicate glass, complete with rubber bulb

***Vaporisateurs pour CCM,*** *en verre borosilicaté, complet avec poire en caoutchouc*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| With erlenmeyer flask 100 ml, ST 19/26<br>*Avec fiole Erlenmeyer de 100 ml à RN 19/26* | **2.147.000** |
| With erlenmeyer flask 100 ml, ST 14/23, ball head<br>*Avec fiole Erlenmeyer de 100 ml à RN 14/23* | **2.147.100** |
| With test tube 6 ml, ST 19/26, and base made of plastic<br>*Avec tube à essai de 6 ml à RN 19/26 et base en plastique* | **2.147.106** |
| With test tube 12 ml, ST 19/26, and base made of plastic<br>*Avec tube à essai de 12 ml à RN 19/26 et base en plastique* | **2.147.112** |



**2.148.*****

**Automatic capillary pipettes,** Dr. Barrolier, error ± 1 %, made of borosilicate glass

***Pipettes capillaires automatiques selon le Dr. Barrolier,*** *tolérance +/-1%, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 1 | **2.148.001** |
| 2 | **2.148.002** |
| 10 | **2.148.010** |
| 20 | **2.148.020** |

**Standard separating chambers,** ground flange rim with ground knob-lid or with flat glass-lid, for TLC plates up to 200 x 200 mm, plane bottom, made of borosilicate glass

***Cuves de développement CCM, type standard,*** *avec couvercle à bouton ou avec couvercle plat, pour plaques CCM jusqu'à 200 x 200mm, en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete chamber<br>*Chambre complète* | **2.148.100** |
| Chamber, without lid<br>*Chambre sans couvercle* | **2.148.101** |
| Knobbed lid<br>*Couvercle à bouton* | **2.148.102** |
| Glass cover plate<br>*Plaque de fermeture en verre* | **2.148.103** |



**2.148.1****

**Simultan separating chambers,** made of borosilicate glass, with vertical grooves in the transverse walls to hold five TLC plates of 200x200 mm and is commonly used to wash TLC-plates before use and for the quantitative trace analysis

***Cuves de séparation simultanée,*** *en verre borosilicaté, avec rainures transversales pour 5 plaques CCM de 200 x 200mm et utilisées pour le lavage des plaques avant leur utilisation et pour les analyses quantitatives de traces*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Simultan separating chamber with knob-lid<br>*Cuve de séparation simultanée avec couvercle à bouton* | **2.148.150** |
| Simultan separating chamber with flat glass lid<br>*Cuve de séparation simultanée avec couvercle plat en verre* | **2.148.151** |
| Spare knob-lid<br>*Couvercle à bouton, de rechange* | **2.148.152** |
| Spare flat glass-lid<br>*Couvercle plat en verre, de rechange* | **2.148.153** |



**2.148.15***

**Nano-Separating chambers,** made of borosilicate glass with lid made of stainless steel, for plates of 100 x 100 mm and 200 x 100 mm

***Cuves de développement CCM, type Nano,*** *en verre borosilicaté avec couvercle plat en acier inoxydable, pour plaques de 100 x 100 mm ou 200 x 100 mm*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Nano-Separating Chamber 100 x 100 mm<br>*Cuve type Nano, 100 x 100 mm* | **2.148.200** |
| Nano-Separating Chamber 200 x 100 mm<br>*Cuve type Nano, 200 x 100 mm* | **2.148.201** |



**2.148.2****

**Separating chambers - TLC,** round with cap, made of borosilicate glass

***Cuves de développement CCM,*** *forme cylindrique avec couvercle, en verre borosilicaté*

| For plates<br>*Pour plaques*<br>mm | Diameter<br>*Diamètre*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 / 50 | 60 | 230 | **2.140.720** |
| 200 / 100 | 130 | 230 | **2.140.730** |



**2.140.7****

## Colour comparing tubes
## *Tubes comparateur de couleur*

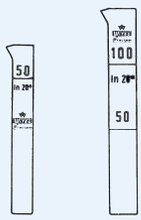


2.149.***

**Colour comparing tubes,** acc. to Eggertz, with ST-stopper, made of borosilicate glass

***Tubes comparateur de couleur d'Eggertz,*** *avec bouchon à rodage interchangeable, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | ST<br>*RIN* | Order No.<br>*N° de code* |
|---|---|---|
| 10 : 0.1 | 12/21 | **2.149.010** |
| 20 : 0.1 | 12/21 | **2.149.020** |
| 25 : 0.1 | 12/21 | **2.149.025** |
| 30 : 0.1 | 12/21 | **2.149.030** |
| 50 : 0.1 | 12/21 | **2.149.050** |
| 100 : 0.2 | 19/26 | **2.149.100** |

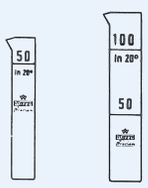



2.150.***

**Color comparing cylinders,** acc. to Nessler, tall form, with optically plane bottom, made of borosilicate glass

***Tubes comparateur de couleur de Nessler,*** *forme haute avec fond plan , en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Marks at<br>*Traits à*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 50 | 180 | 24 | **2.150.050** |
| 100 | 100 | 220 | 32 | **2.150.100** |
| 100 | 50 / 100 | 220 | 32 | **2.150.150** |

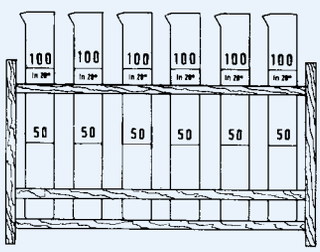



2.151.***

**Colour comparing cylinders,** acc. to Nessler, short form, with optically plane bottom, made of borosilicate glass

***Tubes comparateur de couleur de Nessler,*** *forme basse avec fond plan, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Marks at<br>*Traits à*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 50 | 150 | 26 | **2.151.050** |
| 100 | 100 | 180 | 34 | **2.151.100** |
| 100 | 50 / 100 | 180 | 34 | **2.151.150** |



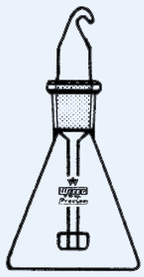

2.152.***

**Support, made of wood,** for colour comparing cylinders, acc. to Nessler

***Support pour tubes*** *de Nessler, en bois*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| For 6 cylinders, tall form / *Pour 6 tubes à forme haute* | **2.152.001** |
| For 12 cylinders, tall form / *Pour 12 tubes à forme haute* | **2.152.002** |
| For 6 cylinders, short form / *Pour 6 tubes à forme basse* | **2.152.003** |
| For 12 cylinders, short form / *Pour 12 tubes à forme basse* | **2.152.004** |

## Micro distilling apparatus
## *Appareil de micro-distillation*



2.154.***

**Micro distilling apparatus, Widmark,** for determination of alcohol in blood, made of borosilicate glass

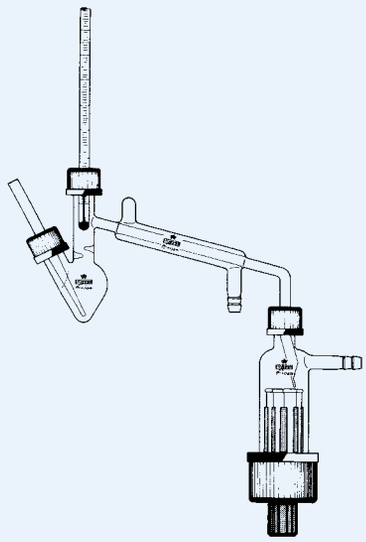
***Appareil de micro-distillation selon Widmark,*** *pour la détermination de l'alcool dans le sang, en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.154.000** |
| **Spare parts /** *Pièces de rechange* | |
| Erlenmeyer flask, 50 ml, ST 19/26<br>*Fiole Erlenmeyer de 50 ml, RN 19/26* | **0.620.050** |
| Adapter with ST 19/26<br>*Fiole Erlenmeyer de 50 ml, RN 19/26* | **2.154.002** |

**Micro distilling apparatus,** for 5 ml, made of borosilicate glass

***Appareil de micro-distillation*** *en verre borosilicaté de 5 ml*

| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| Complete / *Complet* | **2.156.000** |
| **Spare parts /** *Pièces de rechange* | |
| Flask with fused-on condenser. 70 mm, 2 GL 14 *Ballon avec réfrigérant de 70 mm et 2 filetages SVL 14* | **2.156.001** |
| Screw cap, top with hole, GL 14 *Bouchon à vis à trou, SVL 14* | **2.156.002** |
| Gasket, silicone rubber with PTFE washer 12 x 6, GL 14 *Joint en silicone de 12x6, SVL14* | **2.156.003** |
| Receiver adapter with1 GL 14 and 1 GL 32 *Raccord de collecteur à 1 filetage SVL14 et 1 filetage SVL 32* | **2.156.004** |
| Screw cap, top with hole, GL 32 *Bouchon à vis à trou, SVL 32* | **2.156.005** |
| Receiving tube with support and washer *Tube collecteur avec support et joint* | **2.156.006** |
| Thermometer, solid stem, -10 to + 250 °C : 1 °C *Thermomètre -10 / + 250 °C : 1 °C7* | **2.156.00** |
| Air leak tube / *Tube d'aération* | **2.156.008** |



**2.156.*****

## Water stills
## *Alambics à eau distillée*

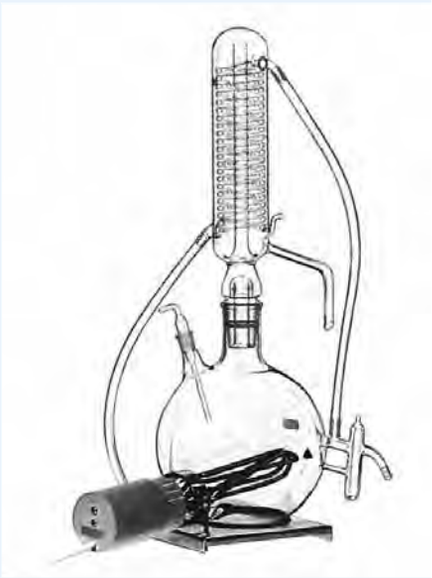
**Water stills "WITO-DEST"**
The quality of the water corresponds to the provision of the DAB 8 and to all important pharmacopoes, ASTM-D-1193 and ASTM-C-225. A conductivity of the distilled water up to ≤1 µS S/cm (25 °C) can be reached. The immersion heating element is covered by quartz glass, so that heavy metal ions in the distillate are excluded. At 60 °C, the distillate is free of CO2. The automatic level regulation and the mounted-in safety device against water lack guarantee an extrem safety during operation. The apparatus are delivered ready for use. Temperature of distillate approx. 50 °C.

***Alambic à eau distillée "WITO-DEST"*** *pour production d'eau à haute pureté selon ASTM D-1193 et ASTM C-225 pouvant atteindre une conductibilité jusqu'à <1µS/cm (à 25°C). Elément de chauffe à immersion revêtu de quartz. A 60°C le distillat est exempt de CO2. Régulation automatique du niveau et sécurité contre le risque de fuite. Température du distillat env. 50°C. Livré prêt à l'emploi.*

| **Type** *Type* | **Output** *Débit* l/h | **V/A** | **W** | **Heater** *Chauffage* | **Order No.** *N° de code* |
|---|---|---|---|---|---|
| WD 2 | 2.5 | 220 / 10 | 2200 | Quartz | **2.190.001** |
| WD 3 | 3 | 220 / 10 | 2200 | Metal | **2.190.003** |
| WD 9 | 7 | 220 / 10 | 3600 | Quartz | **2.190.009** |
| **Spare parts /** *Pièces de rechange* | | | | | |
| Bottle, 5000 ml, PE-stopper. ST 45/40 *Flacon en verre de 5 L à RN 45/40 avec bouchon en Polyéthylène* | | | | | **2.190.005** |
| Aspirator bottle, 10000 ml, with draincock, made of PE *Bonbonne en Polyéthylène de 10 L avec robinet de décharge* | | | | | **2.190.006** |
| Heating element for WITO-DEST WD 2 *Elément chauffant pour WD 2* | | | | | **2.190.010** |
| Heating element for WITO-DEST WD 3 *Elément chauffant pour WD 3* | | | | | **2.190.012** |
| Condenser for WITO-DEST WD 2 - 3 *Réfrigérant pour WD 2 - 3* | | | | | **2.190.022** |
| Heating element for WITO-DEST WD 9 *Elément chauffant pour WD 9* | | | | | **2.190.024** |
| Heating reaktor for WITO-DEST WD 9 *Réacteur chauffant pour WD 9* | | | | | **2.190.025** |



**2.190.*****



2.190.100

**Water still "Economy".**
Top water quality to responsable price. Consisting of the 5 liters boiling flask, interchangeable heating element with thermostatic cut-out of power in case of water input fail, re-starts automatically when water supply is restored. With syphon tube and constant water level device, double spiral condenser with special „PRECISO" FCH-V interchangeable joint (easy to remove from the boiling flask). Excess water is drained through an overflow tube attached to the constant level. Temperature of distillate 70 - 80 °C.

***Alambic pour eau distillée "Economy"***
*pour la production d'eau distillée consistant en un ballon de distillation de 5 litres, élément chauffant interchangeable avec arrêt thermostatique de la tension en cas de manque d'eau, redémarrage automatique, double serpentin de refroidissement et dispositif de maintien du niveau d'eau. Température du distillat env. 70-80°C*

| Type<br>*Type* | Output<br>*Débit*<br>l/h | V/A | W | Heater<br>*Chauffage* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| Economy | 3 - 4 | 220 / 10 | 3000 | metal | **2.190.100** |
| **Spare parts /** *Pièces de rechange* | | | | | |
| Heating element / *Elément chauffant* | | | | | **2.190.016** |
| Double spiral distilling condenser, with FCH-V 45/40<br>*Réfrigérant à double serpentin* | | | | | **2.190.017** |
| Flask, 5000 ml, with overflow-tube<br>*Ballon de 5000 ml avec tube de trop-plein* | | | | | **2.190.018** |
| Wall rack / *Fixation murale* | | | | | **2.190.019** |
| Air leak / *Aspirateur d'air* | | | | | **2.190.021** |



2.190.104

**Water stills "BIOSTILL".**
The immersion heating element is covered by quartz glass, so that heavy metal ions in the distillate are excluded. The quality of the water corresponds to the provision of the DAB 8 and all important pharmacopoes, ASTM-D-1193 and ASTM-C-225. A conductivity of the distilled water up to ≤1 µS/cm (25 °C), pyrogenfree, can be reached.

***Alambic "Biostill"***
*pour la production d'eau distillée avec élément de chauffe en quartz pour production d'eau apyrogène selon ASTM D-1193 et ASTM C-225 pouvant atteindre une conductibilité jusqu'à <1µS/cm (à 25°C)*

| Output<br>*Débit*<br>l/h | V/A | W | Heater<br>*Chauffage* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 3 | 220 / 10 | 2200 | Quartz | **2.190.104** |
| **Spare parts /** *Pièces de rechange* | | | | |
| 3 m rubber / silicone tubing for BIOSTILL<br>*3 mètres tuyau en silicone* | | | | **2.190.114** |
| Water still cleaner, concentrate,<br>for water distilling apparatus, packed to a 1 liter container<br>*Solution concentrée de nettoyage, en flacon de 1 L* | | | | **2.190.116** |
| NS-PE-stopper, NS 29<br>*Bouchon en PE à rodage 29/32* | | | | **2.190.129** |
| Glass part alone, 3 liters<br>*Partie en verre seule* | | | | **2.190.136** |

## Extraction apparatus
*Appareils d'extraction*

### Technical data for Soxhlet Extraction apparatus with Flasks ST 29/32
*Spécifications techniques pour appareils d'extraction Soxhlet avec ballons RN 29/32*

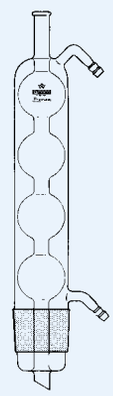
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Capacity of extractor ml<br>*Capacité de l'ectracteur* | *30 | 70 | *100 | 150 | 200 | *250 | 300 | *500 | *1000 | 2000 |
| Capacity of flask ml<br>*Capacité du ballon* | 100 | 100 | 250 | 250 | 250 | 500 | 500 | 1000 | 2000 | 2000 |
| Suitable extraction thimbles:<br>*Cartouches d'extraction:* | | | | | | | | | | |
| Socket length mm<br>*Longueur* | 80 | 100 | 94 | 130 | 123 | 205 | 145 | 230 | 315 | 330 |
| Socket inner Ø. mm<br>*Ø intérieur* | 22 | 25 | 33 | 33 | 43 | 33 | 48 | 48 | 57 | 75 |
| Cone of condenser ST<br>*Rodage conique du réfrigérant* | 29/32 | 34/35 | 45/40 | 45/40 | 45/40 | 45/40 | 60/46 | 60/46 | 71/51 | 45/40 |
| Flat flanges NW<br>*Flansch plat DN* | – | – | – | – | – | – | – | – | – | 100 |

* acc. to DIN 12602

**Allihn condenser,**
made of borosilicate glass

***Réfrigérant d'Allihn,*** *en verre borosilicaté*

| For capacity of extractor<br>*Pour extracteur de capacité en*<br>ml | Length<br>*Longueur*<br>mm | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 | 250 | 29/32 | **2.200.029** |
| 70 | 250 | 34/35 | **2.200.034** |
| 100 - 250 | 250 | 45/40 | **2.200.045** |
| 300 - 500 | 250 | 60/46 | **2.200.060** |

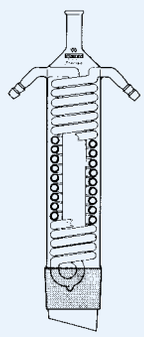


**2.200.*****

**Dimroth condenser,**
made of borosilicate glass

***Réfrigérant de Dimroth,*** *en verre borosilicaté*

| For capacity of extractor<br>*Pour extracteur de capacité en*<br>ml | Length<br>*Longueur*<br>mm | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 | 250 | 29/32 | **2.202.029** |
| 70 | 250 | 34/35 | **2.202.034** |
| 100 - 250 | 250 | 45/40 | **2.202.045** |
| 300 - 500 | 250 | 60/46 | **2.202.060** |
| 1000 | 250 | 71/51 | **2.202.071** |
| 2000 | 300 | 45/40 | **2.202.145** |



**2.202.*****

**Soxhlet extractors,**
made of borosilicate glass

***Extracteur de Soxhlet,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Flask<br>*Rodage du ballon*<br>ST | Condenser<br>*Rodage du réfrigérant*<br>ST | without stopcock<br>*sans robinet* | with glass stopcock<br>*avec robinet en verre* |
|---|---|---|---|---|
| 30 | 29/32 | 29/32 | **2.212.030** | **2.212.030 ST** |
| 70 | 29/32 | 34/35 | **2.212.070** | **2.212.070 ST** |
| 100 | 29/32 | 45/40 | **2.212.100** | **2.212.100 ST** |
| 150 | 29/32 | 45/40 | **2.212.150** | **2.212.150 ST** |
| 200 | 29/32 | 45/40 | **2.212.200** | **2.212.200 ST** |
| 250 | 29/32 | 45/40 | **2.212.250** | **2.212.250 ST** |
| 300 | 29/32 | 60/46 | **2.212.300** | **2.212.300 ST** |
| 500 | 29/32 | 60/46 | **2.212.500** | **2.212.500 ST** |
| 1000 | 29/32 | 71/51 | **2.212.001** | **2.212.001 ST** |
| 2000 | 29/32 | 100 - 45/40 | **2.212.002** | **2.212.002 ST** |



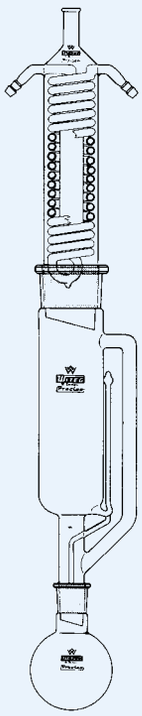
**2.212.*****



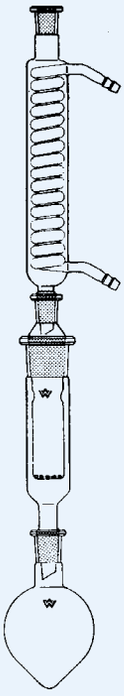
**2.212.*** ST**



**2.218.*****



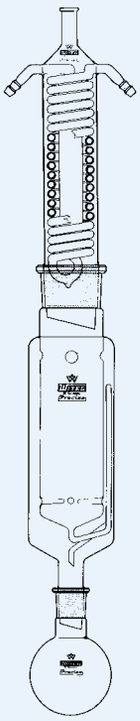
**2.230.*****



**2.240.*****



**0.603.*****



**2.235.*****

**Jacketed extractors, Böhm,** made of borosilicate glass

***Extracteur à manteau de refroidisement de Böhm,*** *en verre borosilicaté*

| For capacity of extractor<br>*Pour extracteur de capacité en*<br>ml | Cone<br>*Cône mâle*<br>ST | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 29/32 | 45/40 | **2.218.100** |
| 250 | 29/32 | 45/40 | **2.218.250** |
| 500 | 29/32 | 60/46 | **2.218.500** |

**Flask,** round bottom, medium neck, made of borosilicate glass

***Ballon à fond rond,*** *col moyen, en verre borosilicaté*

| For capacity of extractor<br>*Pour extracteur de capacité en*<br>ml | Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 - 70 | 100 | 29/32 | **0.603.100** |
| 100 - 200 | 250 | 29/32 | **0.603.250** |
| 250 - 300 | 500 | 29/32 | **0.603.500** |
| 500 | 1000 | 29/32 | **0.603.001** |
| 1000 - 2000 | 2000 | 29/32 | **0.603.002** |

**Extraction apparatus,** solid, soxhlet, complete, made of borosilicate glass

***Appareil d'extraction Soxhlet,*** *complet, en verre borosilicaté*

| Capacity of extractor<br>*Capacité de l'extracteur*<br>ml | Flask<br>*Rodage du ballon*<br>ST | Condenser<br>*Rodage du réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 | 29/32 | 29/32 | **2.230.030** |
| 70 | 29/32 | 34/35 | **2.230.070** |
| 100 | 29/32 | 45/40 | **2.230.100** |
| 150 | 29/32 | 45/40 | **2.230.150** |
| 200 | 29/32 | 45/40 | **2.230.200** |
| 250 | 29/32 | 45/40 | **2.230.250** |
| 300 | 29/32 | 60/46 | **2.230.300** |
| 500 | 29/32 | 60/46 | **2.230.500** |
| 1000 | 29/32 | 71/51 | **2.230.001** |
| 2000 | 29/32 | 100 - 45/40 | **2.230.002** |

**Extractions apparatus, Böhm,** hot extraction, complete, acc. to DIN 12604, made of borosilicate glass

***Appareil d'extraction à chaud de Böhm,*** *complet, en verre borosilicaté sleon DIN 12604*

| Capacity of extractor<br>*Capacité de l'extracteur*<br>ml | Flask<br>*Rodage du ballon*<br>ST | Condenser<br>*Rodage du réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 29/32 | 45/40 | **2.235.100** |
| 250 | 29/32 | 45/40 | **2.235.250** |
| 500 | 29/32 | 60/46 | **2.235.500** |

**Extraction apparatus, semi-micro,** acc. to Antlinger, capacity of extractor 15 ml, made of borosilicate glass

***Appareil d'extraction semi-micro selon Antlinger,*** *avec une capacité de l'extracteur de 15 ml, en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.240.000** |
| **Spare parts /** *Pièces de rechange* | |
| Flask, pear shaped, 100 ml, ST 19/26<br>*Ballon, piriformes, 100 ml, rodage femelle 19/26* | **0.662.100** |
| Center piece, cone ST 19/26, socket ST 29/32<br>*Pièce centrale à rodage conique 19/26 et rodage femelle 29/32* | **2.240.002** |
| Inset, cone ST 29/32, socket ST 19/26<br>*Elément encastrable à rodage conique 29/32 et rodage femelle 19/26* | **2.240.003** |
| Graham condenser, jacket length 160 mm, cone and socket ST 19/26<br>*Réfrigérant de Graham, longueur utile 160 mm, à rodages 19/26* | **2.240.004** |

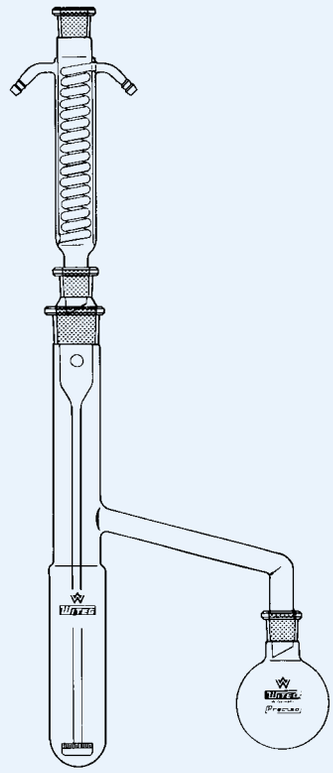
**Extraction apparatus,** for lighter solvents,complete, made of borosilicate glass

***Appareil d'extraction pour solvents légers,*** *complet en verre borosilicaté*

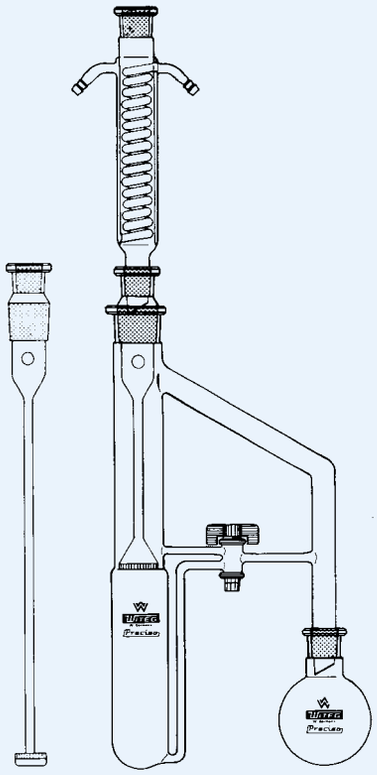
| Capacity extractor<br>*Capacité de l'extracteur*<br>ml | Flask capacity<br>*Capacité du ballon*<br>ml | Flask<br>*Rodage du ballon*<br>ST | Jacket length<br>*Longueur utile*<br>mm | Condenser<br>*Rodage du réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 100 | 250 | 29/32 | 250 | 29/32 | **2.250.100** |
| 250 | 500 | 29/32 | 250 | 29/32 | **2.250.250** |
| 500 | 1000 | 29/32 | 250 | 29/32 | **2.250.500** |
| 1000 | 2000 | 29/32 | 400 | 29/32 | **2.250.001** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Flask, round bottom, 250 ml, ST 29/32<br>*Ballon à fond rond de 250 ml à RN 29/32* | **0.603.250** |
| Extractor, 100 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 100 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.250.102** |
| Inset with sintered disk (P0), cone ST 45/40, socket ST 29/32<br>*Elément encastrable à rodage conique 29/32 et rodage femelle 19/26* | **2.250.103** |
| Jacketed coil condenser, jacket length 250 mm, 2 x ST 29/32<br>*Réfrigérant à manteau de refroidissement, longueur utile 250 mm, rodage conique 29/32* | **2.250.104** |
| Flask, round bottom, 500 ml, ST 29/32<br>*Ballon à fond rond de 500 ml à RN 29/32* | **0.603.500** |
| Extractor, 250 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 250 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.250.252** |
| Flask, round bottom, 1000 ml, ST 29/32<br>*Ballon à fond rond de 1000 ml à RN 29/32* | **0.603.001** |
| Extractor, 500 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 500 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.250.502** |
| Flask, round bottom, 2000 ml, ST 29/32<br>*Ballon à fond rond de 2000 ml à RN 29/32* | **0.603.002** |
| Extractor, 1000 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 1000 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.250.012** |
| Jacketed coil condenser, jacket length 400 mm, 2 x ST 29/32<br>*Réfrigérant à manteau de refroidissement, longueur utile 400 mm, à rodages 29/32* | **2.250.014** |



**2.250.*****



**2.252.*****

**Extraction apparatus,** for lighter and heavier solvents, with ST-COMPACT stopcock, with hollow plug, (DBGM), complete, made of borosilicate glass

***Appareil d'extraction pour solvents lourds et légers,*** *en verre borosilicaté avec robinet intermédiaire à clé en verre creux, complet*

| Capacity extractor<br>*Capacité de l'extracteur*<br>ml | Flask capacity<br>*Capacité du ballon*<br>ml | Flask<br>*Rodage du ballon*<br>ST | Jacket length<br>*Longueur utile*<br>mm | Condenser<br>*Rodage du réfrigérant*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 100 | 250 | 29/32 | 250 | 29/32 | **2.252.100** |
| 250 | 500 | 29/32 | 250 | 29/32 | **2.252.250** |
| 500 | 1000 | 29/32 | 250 | 29/32 | **2.252.500** |
| 1000 | 2000 | 29/32 | 400 | 29/32 | **2.252.001** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Flask, round bottom, 250 ml, ST 29/32<br>*Ballon à fond rond de 250 ml à RN 29/32* | **0.603.250** |
| Extractor, 100 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 100 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.252.102** |
| Inset for lighter solvents with sintered disk (P0), cone ST 45/40, socket ST 29/32<br>*Elément encastrable pour solvents légers avec verre fritté de porosité 0, à rodage conique 45/40 et rodage femelle 29/32* | **2.252.103** |
| Jacketed coil condenser, jacket length 250 mm, 2 x ST 29/32<br>*Réfrigérant à manteau de refroidissement, longueur utile 250 mm, rodage conique 29/32* | **2.252.104** |
| Inset for heavier solvents with sintered disk (P0), cone ST 45/40, socket ST 29/32<br>*Elément encastrable pour solvents lourds avec verre fritté de porosité 0, à rodage conique 45/40 et rodage femelle 29/32* | **2.252.204** |
| Flask, round bottom, 500 ml, ST 29/32<br>*Ballon à fond rond en verre borosilicaté, 500 ml, RN 29/32* | **0.603.500** |
| Extractor, 250 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 250 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.252.252** |
| Flask, round bottom, 1000 ml, ST 29/32<br>*Ballon à fond rond en verre borosilicaté, 1000 ml, RN 29/32* | **0.603.001** |
| Extractor, 500 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 500 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.252.502** |
| Flask, round bottom, 2000 ml, ST 29/32<br>*Ballon à fond rond en verre borosilicaté, 2000 ml, RN 29/32* | **0.603.002** |
| Extractor, 1000 ml, cone ST 29/32, socket ST 45/40<br>*Extracteur de 1000 ml, rodage conique 29/32 et rodage femelle 45/40* | **2.252.012** |
| Jacketed coil condenser, jacket length 400 mm, 2 x ST 29/32<br>*Réfrigérant à manteau de refroidissement, longueur utile 400 mm, à rodages 29/32* | **2.252.014** |

## Glass filters, made of borosilicate glass

**Porosity:**
Glass filters are divided into porosity grades from 00 to 5. The table shows the porosity ranges and their main fields of application. The pore sizes indicated always refer to the largest pore in the disc. This also indicates the diameter of the particles which are only retained during filtration. Many „passage“ pores as possible mark out our glass filters. An essential condition for successfully working with glass filters is the selection of the correct porosity. The nominal maximum pore size should be slightly less than the size of the smallest particles to be separated. It also permits highest possible flow rates without making cleaning unnecessary diffcult. Glass filter apparatus of porosities 3 or 4 are used almost exclusively in quantitative analysis.

## *Filtres en verre borosilicaté*

***Porosité:***
*Les filtres en verre sont divisés dans des porosités de 00 à 5. Le tableau montre les plages de porosité et les champs d'applications. Les tailles des pores se réfèrent toujours au plus grand pore dans le disque. Il indique aussi le diamètre des particles qui sont retenues durant la filtration. Il est important de sélectionner la porosité adéquate. Les porosités 3 et 4 sont essentiellement utilisées dans les analyses quantitatives.*

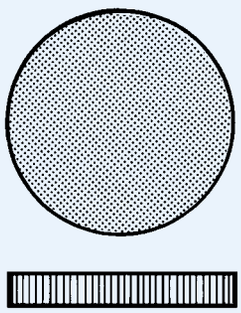
| **Porosity**<br>***Seuil de rétention*** | **New Identification marks**<br>***Nouveaux repères d'identification*** | **Pore size**<br>***Taille des pores***<br>**µm** | **Applications**<br>***Applications*** |
|---|---|---|---|
| 00 | P 500 | 250-500 | - Liquid and gas distribution, Substrates for solids in fluid systems |
| 0 | P 250 | 160-250 | - Gas distribution, gas distribution in liquids at low pressure, filtration of coarsest precipitates |
| 1 | P 160 | 100-160 | - Coarse filtration, filtration of coarse precipitates, gas distribution in liquids, liquid distribution, coarse gas filtration, extraction apparatus for coarse-grain materials, loose filter layer substrates for gelatinous percipitates |
| 2 | P 100 | 40-100 | - Preparative fine filtration, preparative work with crystalline precipitates, mercury filtration |
| 3 | P 40 | 16-40 | - Analytical filtration, analytical work with medium-fine precipitates, preparative work with fine precipitates, filtration in cellulose chemistry, fine gas filtration, extraction apparatus for fine-grained materials |
| 4 | P 16 | 10-16 | - Analytical fine filtration, analytical work with very fine precipitates (e. g. BaSO4 CU2O), preparative work with precipitates of appropriate fineness, non-return and stop valve for mercury |
| 5 | P 1.6 | 1.0-1.6 | - Bacteria filtration, sterile filtration |

## Sintered dics
### *Plaques filtrantes en verre fritté*

**Sintered discs,** edge not fused, surfaces untreated, made of borosilicate glass

***Plaques filtrantes en verre fritté,*** *surfaces non traitées, en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Porosity<br>*Seuil de rétention* | Order No.<br>*N° de code* |
|---|---|---|
| 5 | P00 | **2.350.049** |
| 5 | P0 | **2.350.050** |
| 5 | P1 | **2.350.051** |
| 5 | P2 | **2.350.052** |
| 5 | P3 | **2.350.053** |
| 5 | P4 | **2.350.054** |
| 5 | P5 | **2.350.055** |
| 10 | P00 | **2.350.099** |
| 10 | P0 | **2.350.100** |
| 10 | P1 | **2.350.101** |
| 10 | P2 | **2.350.102** |
| 10 | P3 | **2.350.103** |
| 10 | P4 | **2.350.104** |
| 10 | P5 | **2.350.105** |
| 20 | P00 | **2.350.199** |
| 20 | P0 | **2.350.200** |
| 20 | P1 | **2.350.201** |
| 20 | P2 | **2.350.202** |
| 20 | P3 | **2.350.203** |
| 20 | P4 | **2.350.204** |
| 20 | P5 | **2.350.205** |
| 25 | P00 | **2.350.249** |
| 25 | P0 | **2.350.250** |
| 25 | P1 | **2.350.251** |
| 25 | P2 | **2.350.252** |
| 25 | P3 | **2.350.253** |
| 25 | P4 | **2.350.254** |
| 25 | P5 | **2.350.255** |
| 30 | P00 | **2.350.299** |
| 30 | P0 | **2.350.300** |
| 30 | P1 | **2.350.301** |
| 30 | P2 | **2.350.302** |
| 30 | P3 | **2.350.303** |
| 30 | P4 | **2.350.304** |
| 30 | P5 | **2.350.305** |
| 40 | P00 | **2.350.399** |
| 40 | P0 | **2.350.400** |
| 40 | P1 | **2.350.401** |
| 40 | P2 | **2.350.402** |
| 40 | P3 | **2.350.403** |
| 40 | P4 | **2.350.404** |
| 40 | P5 | **2.350.405** |
| 50 | P00 | **2.350.499** |
| 50 | P0 | **2.350.500** |
| 50 | P1 | **2.350.501** |
| 50 | P2 | **2.350.502** |
| 50 | P3 | **2.350.503** |
| 50 | P4 | **2.350.504** |
| 50 | P5 | **2.350.505** |
| 60 | P00 | **2.350.599** |
| 60 | P0 | **2.350.600** |
| 60 | P1 | **2.350.601** |
| 60 | P2 | **2.350.602** |
| 60 | P3 | **2.350.603** |
| 60 | P4 | **2.350.604** |
| 60 | P5 | **2.350.605** |
| 70 | P00 | **2.350.699** |
| 70 | P0 | **2.350.700** |
| 70 | P1 | **2.350.701** |
| 70 | P2 | **2.350.702** |
| 70 | P3 | **2.350.703** |
| 70 | P4 | **2.350.704** |
| 70 | P5 | **2.350.705** |

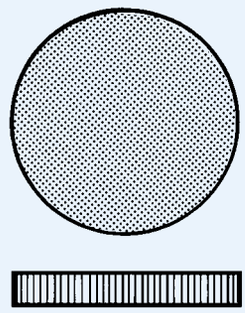


**2.350.*****

**Sintered discs,** edge not fused, surfaces untreated, made of borosilicate glass

***Plaques filtrantes en verre fritté,*** *surfaces non traitées, en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Porosity<br>*Seuil de rétention* | Order No.<br>*N° de code* |
|---|---|---|
| 80 | P00 | **2.350.799** |
| 80 | P0 | **2.350.800** |
| 80 | P1 | **2.350.801** |
| 80 | P2 | **2.350.802** |
| 80 | P3 | **2.350.803** |
| 80 | P4 | **2.350.804** |
| 80 | P5 | **2.350.805** |
| 90 | P00 | **2.350.899** |
| 90 | P0 | **2.350.900** |
| 90 | P1 | **2.350.901** |
| 90 | P2 | **2.350.902** |
| 90 | P3 | **2.350.903** |
| 90 | P4 | **2.350.904** |
| 90 | P5 | **2.350.905** |
| 120 | P00 | **2.350.919** |
| 120 | P0 | **2.350.920** |
| 120 | P1 | **2.350.921** |
| 120 | P2 | **2.350.922** |
| 120 | P3 | **2.350.923** |
| 120 | P4 | **2.350.924** |
| 120 | P5 | **2.350.925** |



**2.350.*****

**Filter discs,** Porosity P0, for vacuum filtration equipment, made of borosilicate glass

***Plaques filtrantes,*** *porosité 0, en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 25 | **2.351.025** |
| 47 | **2.351.047** |
| 90 | **2.351.090** |

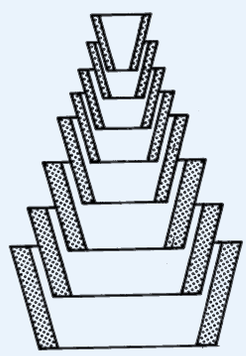
## Rubber gaskets

## *Joints coniques en caoutchouc*

**Guko set, 7 rubber gaskets,** conical, from size 21 - 86 mm (outer Ø size top)

***Série de 7 joints coniques en caoutchouc,*** *tailles 21-86 mm (dia. supérieur) pour filtration*

| | Order No.<br>*N° de code* |
|---|---|
| | **2.355.000** |

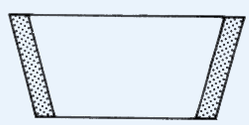


**2.355.*****

**Guko,** rubber gaskets, conical, for filter funnels

***Joints coniques en caoutchouc,*** *pour entonnoirs filtrants*

| Outer Ø top<br>*Ø ext.*<br>mm | Outer Ø bottom<br>*Ø ext.*<br>mm | Inner Ø bottom<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 21 | 11 | 7 | 21 | **2.356.022** |
| 27 | 16 | 11 | 22 | **2.356.028** |
| 37 | 22 | 16 | 25 | **2.356.035** |
| 46 | 29 | 22 | 29 | **2.356.050** |
| 58 | 38 | 30 | 35 | **2.356.063** |
| 69 | 60 | 36 | 40 | **2.356.076** |
| 86 | 75 | 46 | 45 | **2.356.089** |

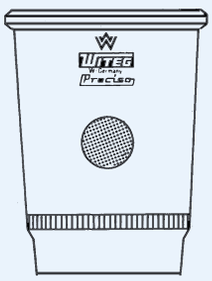


**2.356*****

## Filter crucibles
## *Creusets filtrants*

**Crucibles with sintered disc, Gooch,** made of borosilicate glass

***Creusets filtrants de Gooch,*** *en verre borosilicaté*

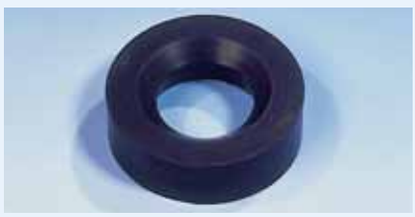


**2.360.*****

| Capacity<br>*Capacité*<br>ml | Porosity<br>*N° de porosité* | Suitable rubber sleeve outer Ø<br>*Ø ext.*<br>mm | Suitable filter adapter inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 8 | P0 | 26 | 26 | **2.360.080** |
| 8 | P1 | 26 | 26 | **2.360.081** |
| 8 | P2 | 26 | 26 | **2.360.082** |
| 8 | P3 | 26 | 26 | **2.360.083** |
| 8 | P4 | 26 | 26 | **2.360.084** |
| 8 | P5 | 26 | 26 | **2.360.085** |
| 15 | P0 | 33 | 33 | **2.360.150** |
| 15 | P1 | 33 | 33 | **2.360.151** |
| 15 | P2 | 33 | 33 | **2.360.152** |
| 15 | P3 | 33 | 33 | **2.360.153** |
| 15 | P4 | 33 | 33 | **2.360.154** |
| 15 | P5 | 33 | 33 | **2.360.155** |
| 30 | P0 | 41 | 41 | **2.360.300** |
| 30 | P1 | 41 | 41 | **2.360.301** |
| 30 | P2 | 41 | 41 | **2.360.302** |
| 30 | P3 | 41 | 41 | **2.360.303** |
| 30 | P4 | 41 | 41 | **2.360.304** |
| 30 | P5 | 41 | 41 | **2.360.305** |
| 50 | P0 | 48 | 48 | **2.360.500** |
| 50 | P1 | 48 | 48 | **2.360.501** |
| 50 | P2 | 48 | 48 | **2.360.502** |
| 50 | P3 | 48 | 48 | **2.360.503** |
| 50 | P4 | 48 | 48 | **2.360.504** |
| 50 | P5 | 48 | 48 | **2.360.505** |

**Rubber rings for filter funnels, new,** with rim for improved placement

***Bagues en caoutchouc pour entonnoirs filtrants,*** *avec rebord*

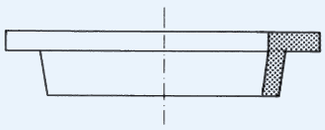


**2.364.*****

| Outer Ø top<br>*Ø sup. externe*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 23 | 11 | **2.364.011** |
| 33 | 15 | **2.364.012** |
| 44 | 25 | **2.364.013** |
| 58 | 25 | **2.364.014** |
| 68 | 25 | **2.364.015** |

**Rubber sleeves,** for crucibles

***Manchon amortisseur en caoutchouc***

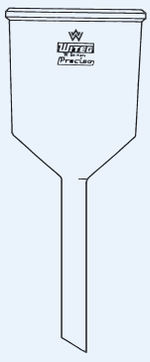


**2.364.*****

| Outer Ø<br>*Ø ext.*<br>mm | For crucibles<br>*pour creuset*<br>ml | For filter adapter<br>*Pour allonge de filtration*<br>mm | For Order No.<br>*Pour N° de code* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 26 | 8 | 26 | 2.360.08* | **2.364.026** |
| 33 | 15 | 33 | 2.360.15* | **2.364.033** |
| 41 | 30 | 41 | 2.360.30* | **2.364.041** |
| 48 | 50 | 48 | 2.360.50* | **2.364.048** |

**Adapter for crucibles,** made of borosilicate glass

***Allonges pour creuset filtrant,*** *en verre borosilicaté*



**2.365.*****

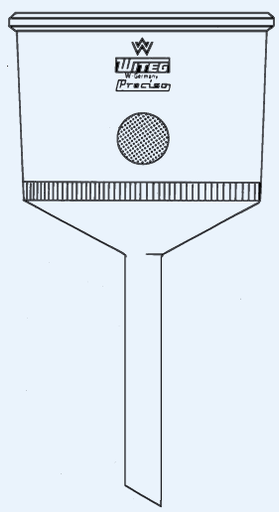
| Outer Ø<br>*Ø ext.*<br>mm | For crucibles<br>*pour creuset filtrant*<br>ml | For rubber sleeve<br>*Pour manchon amortisseur*<br>mm | For Order No.<br>*Pour N° de code* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 26 | 8 | 26 | 2.360.08* | **2.365.026** |
| 33 | 15 | 33 | 2.360.15* | **2.365.033** |
| 41 | 30 | 41 | 2.360.30* | **2.365.041** |
| 48 | 50 | 48 | 2.360.50* | **2.365.050** |

# Filter funnels
## *Entonnoir filtrants*

**Buechner filter funnels,** made of borosilicate glass

***Entonnoir filtrant de Büchner,*** *en verre borosilicaté, cylindro-conique*

| Capacity<br>*Capacité*<br>ml | Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Stem Ø<br>*Ø de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | P0 | 35 | 10 | **2.367.050** |
| 50 | P1 | 35 | 10 | **2.367.051** |
| 50 | P2 | 35 | 10 | **2.367.052** |
| 50 | P3 | 35 | 10 | **2.367.053** |
| 50 | P4 | 35 | 10 | **2.367.054** |
| 50 | P5 | 35 | 10 | **2.367.055** |
| 75 | P0 | 45 | 10 | **2.367.070** |
| 75 | P1 | 45 | 10 | **2.367.071** |
| 75 | P2 | 45 | 10 | **2.367.072** |
| 75 | P3 | 45 | 10 | **2.367.073** |
| 75 | P4 | 45 | 10 | **2.367.074** |
| 75 | P5 | 45 | 10 | **2.367.075** |
| 125 | P0 | 60 | 10 | **2.367.120** |
| 125 | P1 | 60 | 10 | **2.367.121** |
| 125 | P2 | 60 | 10 | **2.367.122** |
| 125 | P3 | 60 | 10 | **2.367.123** |
| 125 | P4 | 60 | 10 | **2.367.124** |
| 125 | P5 | 60 | 10 | **2.367.125** |
| 500 | P0 | 90 | 22 | **2.367.500** |
| 500 | P1 | 90 | 22 | **2.367.501** |
| 500 | P2 | 90 | 22 | **2.367.502** |
| 500 | P3 | 90 | 22 | **2.367.503** |
| 500 | P4 | 90 | 22 | **2.367.504** |
| 500 | P5 | 90 | 22 | **2.367.505** |
| 1000 | P0 | 120 | 22 | **2.367.900** |
| 1000 | P1 | 120 | 22 | **2.367.901** |
| 1000 | P2 | 120 | 22 | **2.367.902** |
| 1000 | P3 | 120 | 22 | **2.367.903** |
| 1000 | P4 | 120 | 22 | **2.367.904** |
| 1000 | P5 | 120 | 22 | **2.367.905** |
| 4000 | P1 | 175 | 30 | **2.367.991** |
| 4000 | P2 | 175 | 30 | **2.367.992** |
| 4000 | P3 | 175 | 30 | **2.367.993** |
| 4000 | P4 | 175 | 30 | **2.367.994** |
| 8000 | P1 | 200 | 30 | **2.368.001** |
| 8000 | P2 | 200 | 30 | **2.368.002** |
| 8000 | P3 | 200 | 30 | **2.368.003** |
| 8000 | P4 | 200 | 30 | **2.368.004** |

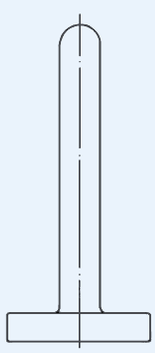


**2.367.*****

**Funnel insert,** made of borosilicate glass

***Pièce intermédiaire d'entonnoir filtrant,*** *en verre borosilicaté*

| Disc outer Ø<br>*Ø ext. du disque*<br>mm | Overall length<br>*Longueur totale*<br>mm | Disc height<br>*Hauteur du disque*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 35 | 118 | 8 | **2.368.013** |
| 50 | 135 | 10 | **2.368.015** |
| 70 | 154 | 14 | **2.368.017** |

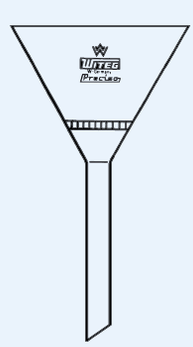


**2.368.*****

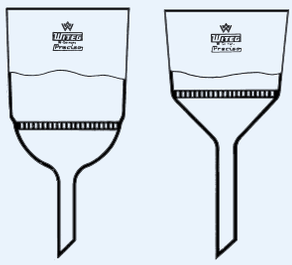
**Filter funnels (Hirsch funnel),** made of borosilicate glass

***Entonnoir filtrant conique de Hirsch,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Stem Ø<br>*Ø de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | P1 | 25 | 8 | **2.368.051** |
| 25 | P2 | 25 | 8 | **2.368.052** |
| 25 | P3 | 25 | 8 | **2.368.053** |
| 25 | P4 | 25 | 8 | **2.368.054** |
| 25 | P5 | 25 | 8 | **2.368.055** |



**2.368.*****



2.369.***

**Buechner funnels, with slit sieves,** made of borosilicate glass

***Entonnoir filtrant de Büchner,*** *avec tamis, en verre borosilicaté, cylindro-conique*

| Capacity<br>*Capacité*<br>ml | Disc Ø<br>*Ø du disque*<br>mm | Stem Ø<br>*Ø de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 70 | 48 | 10 | **2.369.070** |
| 125 | 60 | 10 | **2.369.125** |
| 220 | 73 | 18 | **2.369.220** |
| 500 | 95 | 22 | **2.369.500** |
| 1000 | 120 | 22 | **2.369.900** |



2.370.***

**Micro filter funnels,** made of borosilicate glass

***Entonnoir de micro-filtration,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Stem Ø<br>*Ø de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.8 | P0 | 10 | 6 | **2.370.080** |
| 0.8 | P1 | 10 | 6 | **2.370.081** |
| 0.8 | P2 | 10 | 6 | **2.370.082** |
| 0.8 | P3 | 10 | 6 | **2.370.083** |
| 0.8 | P4 | 10 | 6 | **2.370.084** |
| 2 | P0 | 10 | 6 | **2.370.090** |
| 2 | P1 | 10 | 6 | **2.370.091** |
| 2 | P2 | 10 | 6 | **2.370.092** |
| 2 | P3 | 10 | 6 | **2.370.093** |
| 2 | P4 | 10 | 6 | **2.370.094** |

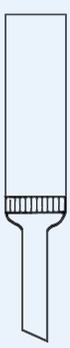


2.372.***

**Micro filter acc. to Pregl,** made of borosilicate glass

***Entonnoir de micro-filtration selon Pregl,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Stem Ø<br>*Ø de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 4 | P1 | 10 | 6 | **2.372.041** |



2.374.***

**Filter tube, Allihn,** height above disc 100 mm, made of borosilicate glass

***Tube filtrant d'Allihn,*** *en verre borosilicaté, hauteur de 100 mm au-dessus du disque*

| Capacity<br>*Capacité*<br>ml | Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Stem Ø<br>*Ø de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 30 | P0 | 20 | 10 | **2.374.030** |
| 30 | P1 | 20 | 10 | **2.374.031** |
| 30 | P2 | 20 | 10 | **2.374.032** |
| 30 | P3 | 20 | 10 | **2.374.033** |
| 30 | P4 | 20 | 10 | **2.374.034** |

## Pipeline filters
## *Filtres en pipeline*



2.375.***

**Pipeline filters,** made of borosilicate glass

***Filtre en pipeline,*** *en verre borosilicaté*

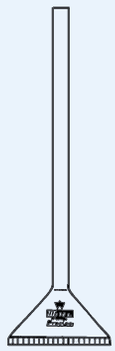
| Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Tube Ø<br>*Ø des tubes*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| P0 | 30 | 14 | **2.375.030** |
| P1 | 30 | 14 | **2.375.031** |
| P2 | 30 | 14 | **2.375.032** |
| P3 | 30 | 14 | **2.375.033** |
| P4 | 30 | 14 | **2.375.034** |
| P0 | 60 | 15 | **2.375.060** |
| P1 | 60 | 15 | **2.375.061** |
| P2 | 60 | 15 | **2.375.062** |
| P3 | 60 | 15 | **2.375.063** |
| P4 | 60 | 15 | **2.375.064** |
| P0 | 90 | 20 | **2.375.090** |
| P1 | 90 | 20 | **2.375.091** |
| P2 | 90 | 20 | **2.375.092** |
| P3 | 90 | 20 | **2.375.093** |
| P4 | 90 | 20 | **2.375.094** |

## Immersion filters
## *Filtres d'immersion*

**Immersion filters,** for reverse filtration, made of borosilicate glass

***Filtre d'immersion pour la filtration inversée,*** *en verre borosilicaté*

| Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Tube Ø<br>*Ø des tubes*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| P0 | 35 | 10 | 210 | **2.376.030** |
| P1 | 35 | 10 | 210 | **2.376.031** |
| P2 | 35 | 10 | 210 | **2.376.032** |
| P3 | 35 | 10 | 210 | **2.376.033** |
| P4 | 35 | 10 | 210 | **2.376.034** |

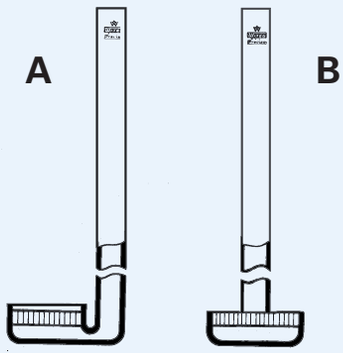


**2.376.*****

**Gas distribution tubes,** made of borosilicate glass

***Tube de distribution de gaz,*** *en verre borosilicaté*

| Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Tube Ø<br>*Ø des tubes*<br>mm | Length<br>*Longueur*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| P0 | 22 | 6 | 250 | A | **2.378.060** |
| P1 | 22 | 6 | 250 | A | **2.378.061** |
| P2 | 22 | 6 | 250 | A | **2.378.062** |
| P0 | 25 | 9 | 250 | B | **2.378.090** |
| P1 | 25 | 9 | 250 | B | **2.378.091** |
| P2 | 25 | 9 | 250 | B | **2.378.092** |
| P1 | 34 | 11 | 250 | B | **2.378.101** |




**2.378.*****

**Micro immersion filters,** for reverse filtration, made of borosilicate glass

***Tube micro de filtration inversée,*** *en verre borosilicaté*

| Porosity<br>*N° de porosité* | Disc Ø<br>*Ø du disque*<br>mm | Tube Ø<br>*Ø des tubes*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| P0 | 10 | 6 | 100 | **2.380.060** |
| P1 | 10 | 6 | 100 | **2.380.061** |
| P2 | 10 | 6 | 100 | **2.380.062** |
| P3 | 10 | 6 | 100 | **2.380.063** |
| P4 | 10 | 6 | 100 | **2.380.064** |



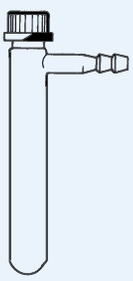
**2.380.*****

## Suction tubes
## *Tubes d'aspiration*

**Suction tubes with side hose connection,** complete with screw cap, top with hole and gasket, silicone rubber with PTFE washer, made of borosilicate glass

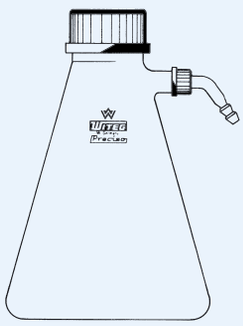
***Tube d'aspiration avec raccord à olive,*** *en verre borosilicaté complet avec bouchon à vis perforé y compris joint en silicone et revêtement en téflon*

| Length<br>*Longueur*<br>mm | Screw-thread<br>*Filetage*<br>GL | Gasket<br>*Joint*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 14 | 12 x 6 | **2.385.014** |
| 160 | 18 | 16 x 8 | **2.385.018** |
| 180 | 25 | 22 x 10 | **2.385.025** |
| 200 | 32 | 29 x 10 | **2.385.032** |



**2.385.*****

## Vacuum filtration
## *Filtration sous vide*



2.386.***

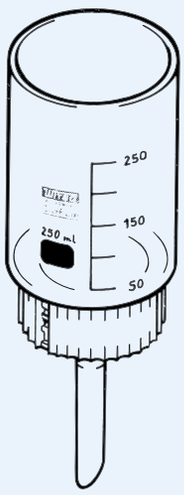
**Buchner filter flask** with screw-thread and SVS tubing connection for vacuum use, made of borosilicate glass

***Fiole de filtration sous vide*** *en verre borosilicaté avec col fileté et raccord à olive coudée vissable en plastique pour tuyau à vide*

| Capacity<br>*Capacité*<br>ml | Screw-thread<br>*Filetage*<br>GL | Tubing connection<br>*Raccord*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 32/10 | 14 | **2.386.100** |
| 250 | 32/10 | 14 | **2.386.250** |
| 500 | 32/10 | 14 | **2.386.500** |
| 1000 | 32/10 | 14 | **2.386.001** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Filter flask, 100 ml, screw-thread, GL 32<br>*Fiole de 100 ml à filetage 32* | **2.386.101** |
| Screw cap, top with hole, GL 32<br>*Bouchon à vis perforé GL 32* | **2.386.102** |
| Gasket, silicone rubber, with PTFE washer, 29 x 10 mm<br>*Joint en silicone 29x10mm* | **2.386.103** |
| Screw cap, top with hole, GL 14<br>*Bouchon à vis perforé GL 14* | **2.386.104** |
| Hose connection, bent, with gasket, made of polypropylene<br>*Raccord à olive coudée avec joint en silicone 29x10mm* | **2.386.105** |
| Filter flask, 250 ml, screw-thread, GL 32<br>*Fiole de 250 ml à filetage 32* | **2.386.251** |
| Filter flask, 500 ml, screw-thread, GL 32<br>*Fiole de 500 ml à filetage 32* | **2.386.501** |
| Filter flask, 1000 ml, screw-thread, GL 32<br>*Fiole de 1000 ml à filetage 32* | **2.386.901** |

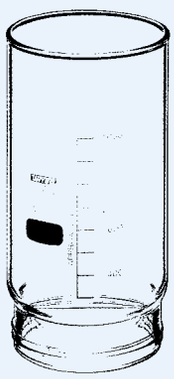



2.387.***

**Screw filters with interchangeable filter plates.** Simple and safe to handle. 3 filter heads and 4 filter plates of 4 porosities. Screw filters offer extraordinary advantages when compared with conventional filtration units, made of Polypropylene (PP), autoclaveable up to 140 °C, Complete without plate

***Entonnoir filtrant gradué à filetage en polypropylène (PP) autoclavable à 140°C,*** *à plaques filtrantes interchangeables et faciles à nettoyer, pouvant être utilisées en tant que support pour membranes filtrantes. Livré complet mais sans plaque filtrante*

| Capacity<br>*Capacité*<br>ml | For filter plate Ø<br>*Pour plaque filtrante de dia.*<br>mm | Screw-thread<br>*Taille*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 | 24 | 28 | **2.387.001** |
| 250 | 50 | 54 | **2.387.002** |
| 1000 | 90 | 95 | **2.387.003** |



2.387.***

**Filter head with screw-thread**

***Tête filtrante avec filetage de rechange***

| Capacity<br>*Capacité*<br>ml | For filter plate Ø<br>*Pour plaque filtrante de dia.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 30 | 24 | **2.387.101** |
| 250 | 50 | **2.387.102** |
| 1000 | 90 | **2.387.103** |



2.387.***

**Viton seals**

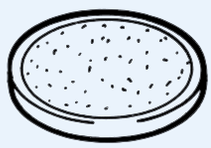
***Joint en viton***

| For filter plate Ø<br>*Pour plaque filtrante de dia.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 24 | **2.387.201** |
| 50 | **2.387.202** |
| 90 | **2.387.203** |

**Filter disc with glass rim**

***Plaque filtrante avec bordure en verre***
*(il est necessaire de placer la plaque entre deux joints en viton)*

| Plate Ø<br>*Dia. de plaque*<br>mm | Porosity<br>*N° de porosité* | Order No.<br>*N° de code* |
|---|---|---|
| 24 | P1 | **2.387.301** |
| 24 | P2 | **2.387.302** |
| 24 | P3 | **2.387.303** |
| 24 | P4 | **2.387.304** |
| 50 | P1 | **2.387.401** |
| 50 | P2 | **2.387.402** |
| 50 | P3 | **2.387.403** |
| 50 | P4 | **2.387.404** |
| 90 | P1 | **2.387.501** |
| 90 | P2 | **2.387.502** |
| 90 | P3 | **2.387.503** |
| 90 | P4 | **2.387.504** |



**2.387.*****

**Funnel,** made of Polypropylene (PP) autoclavable up to 140 °C

***Entonnoir,*** *en polypropyléne (PP) de rechange autoclavable jusqu'à 140°C*

| Screw-thread<br>*Filetage*<br>mm | Stem Ø<br>*Ø de la tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 28 | 10 | **2.387.601** |
| 54 | 12 | **2.387.602** |
| 95 | 18 | **2.387.603** |



**2.387.*****

## Gas washing bottles
## *Flacon-laveur*

**Gas washing bottles, Drechsel**
complete, made of borosilicate glass

***Flacon-laveur de Drechsel***
*en verre borosilicaté, complet*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 29/32 | **2.400.100** |
| 250 | 29/32 | **2.400.250** |
| 500 | 29/32 | **2.400.500** |
| 1000 | 29/32 | **2.400.001** |
| **Spare parts /** *Pièces de rechange* | | |
| Head only, ST 29/32<br>*Tête uniquement, RN 29/32* | | **2.400.101** |
| Spare gas washing bottle, 100 ml, ST 29/32<br>*Flacon de 100 ml, RN 29/32* | | **2.401.100** |
| Spare gas washing bottle, 250 ml, ST 29/32<br>*Flacon de 250 ml, RN 29/32* | | **2.401.250** |
| Spare gas washing bottle, 500 ml, ST 29/32<br>*Flacon de 500 ml, RN 29/32* | | **2.401.500** |
| Spare gas washing bottle, 1000 ml, ST 29/32<br>*Flacon de 1000 ml, RN 29/32* | | **2.401.001** |




**2.400.*****




**2.402.*****

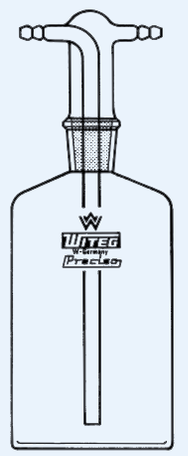
**Gas washing bottles, Drechsel**
with sintered disc, complete, made of borosilicate glass

***Flacon-laveur de Drechsel,*** *avec disque en verre fritté, complet, en verre borosilicaté*

| **Capacity** *Capacité* ml | **Socket** *Cône femelle* ST | **Porosity** *N° de porosité* | **Order No.** *N° de code* |
|---|---|---|---|
| 100 | 29/32 | P0 | **2.402.100** |
| 250 | 29/32 | P0 | **2.402.250** |
| 500 | 29/32 | P0 | **2.402.500** |
| 1000 | 29/32 | P0 | **2.402.001** |
| 100 | 29/32 | P1 | **2.402.101** |
| 250 | 29/32 | P1 | **2.402.251** |
| 500 | 29/32 | P1 | **2.402.501** |
| 1000 | 29/32 | P1 | **2.402.011** |
| 100 | 29/32 | P2 | **2.402.102** |
| 250 | 29/32 | P2 | **2.402.252** |
| 500 | 29/32 | P2 | **2.402.502** |
| 1000 | 29/32 | P2 | **2.402.012** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Head only, with sintered disc, P0, ST 29/32<br>*Tête seule à RN 29/32, avec disque en verre fritté P0* | **2.402.600** |
| Head only, with sintered disc, P1, ST 29/32<br>*Tête seule à RN 29/32, avec disque en verre fritté P1* | **2.402.601** |
| Head only, with sintered disc, P2, ST 29/32<br>*Tête seule à RN 29/32, avec disque en verre fritté P2* | **2.402.602** |




**2.403.*****

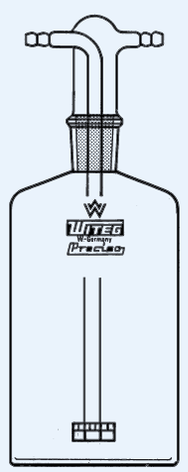
**Gas washing bottles, Drechsel**
with safety head, acc. to DIN 12596, complete, made of borosilicate glass

***Flacon-laveur de Drechsel,*** *de sécurité selon DIN 12596, complet, en verre borosilicaté*

| **Capacity** *Capacité* ml | **Socket** *Cône femelle* ST | **Order No.** *N° de code* |
|---|---|---|
| 100 | 29/32 | **2.403.100** |
| 250 | 29/32 | **2.403.250** |
| 500 | 29/32 | **2.403.500** |
| 1000 | 29/32 | **2.403.001** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Safety head only, ST 29/32, acc. to DIN 12596<br>*Tête de sécurité à RN 29/32* | **2.403.101** |




**2.404.*****

**Gas washing bottles, Drechsel**
with safety head and sintered disc, acc. to DIN 12596, complete, made of borosilicate glass

***Flacon-laveur de Drechsel,*** *avec tête de sécurité et disque en verre fritté selon DIN 12596, complet, en verre borosilicaté*

| **Capacity** *Capacité* ml | **Socket** *Cône femelle* ST | **Porosity** *N° de porosité* | **Order No.** *N° de code* |
|---|---|---|---|
| 100 | 29/32 | P0 | **2.404.100** |
| 250 | 29/32 | P0 | **2.404.250** |
| 500 | 29/32 | P0 | **2.404.500** |
| 1000 | 29/32 | P0 | **2.404.001** |
| 100 | 29/32 | P1 | **2.404.101** |
| 250 | 29/32 | P1 | **2.404.251** |
| 500 | 29/32 | P1 | **2.404.501** |
| 1000 | 29/32 | P1 | **2.404.011** |
| 100 | 29/32 | P2 | **2.404.102** |
| 250 | 29/32 | P2 | **2.404.252** |
| 500 | 29/32 | P2 | **2.404.502** |
| 1000 | 29/32 | P2 | **2.404.012** |

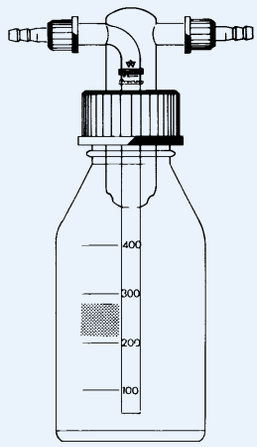
**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Safety head only, with sintered disc, P0, ST 29/32<br>*Tête de sécurité seule à RN 29/32, avec disque en verre fritté P0* | **2.404.601** |
| Safety head only, with sintered disc, P1, ST 29/32<br>*Tête de sécurité seule à RN 29/32, avec disque en verre fritté P1* | **2.404.602** |
| Safety head only, with sintered disc, P2, ST 29/32<br>*Tête de sécurité seule à RN 29/32, avec disque en verre fritté P2* | **2.404.603** |

**Gas washing bottle, Drechsel**
with screw-thread and tubing connections, complete, made of borosilicate glass

***Flacon-laveur de Drechsel**, nouvelle forme avec col à raccords de tuyau à filetage, en verre borosilicaté, sans disque*

| Capacity<br>*Capacité*<br>ml | Screw-thread<br>*Filetage*<br>GL | Tubing connection<br>*Raccords de tube*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 45 | 14 | **2.410.500** |
| **Spare parts /** *Pièces de rechange* | | | |
| Bottle, 500 ml, GL 45<br>*Flacon de 500 ml à filetage GL 45* | | | **2.410.001** |
| Screw cap, top with hole, GL 45<br>*Bouchon à vis perforé en PP GL 45* | | | **2.410.002** |
| Gasket, silicone rubber, with PTFE washer, GL 45<br>*Joint en silicone avec revêtement en téflon, GL14* | | | **2.410.003** |
| Head, with 2 screw-threads, GL 14<br>*Tête avec 2 filetages GL 14* | | | **2.410.004** |
| Screw cap, top with hole, GL 14<br>*Bouchon à vis en PP avec perforation, GL 14* | | | **2.410.005** |
| Hose connection, straight, 8 mm outer Ø, made of polypropylene<br>*Raccord à olive en PP pour tuyau de 8 mm dia. ext.* | | | **2.410.006** |

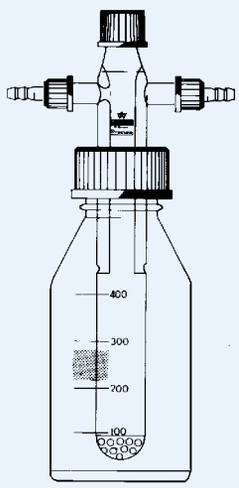



**2.410.*****

**Security washing bottle**
with screw-thread and tubing connections, complete, made of borosilicate glass

***Flacon-laveur de sécurité,** en verre borosilicaté avec filetages GL 14, complet*

| Capacity<br>*Capacité*<br>ml | Screw-thread<br>*Filetage*<br>GL | Tubing connection<br>*Raccords de tube*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 45 | 14 | **2.412.500** |
| **Spare parts /** *Pièces de rechange* | | | |
| Head, with 2 screw-threads, GL 14, 1 screw-thread, GL 18<br>*Tête avec 2 filetages GL 14 et un filetage GL 18* | | | **2.412.001** |

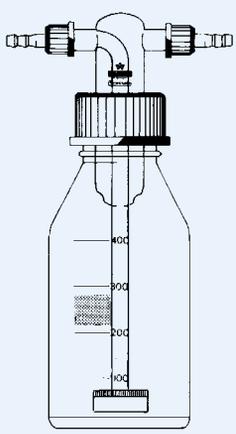



**2.412.*****

**Gas washing bottles, Drechsel**
with screw-thread and tubing connections, with sintered disc, complete, made of borosilicate glass

***Flacon-laveur de Drechsel,** nouvelle forme avec col à raccords de tuyau à filetage, en verre borosilicaté, avec disque en verre fritté*

| Capacity<br>*Capacité*<br>ml | Screw-thread<br>*Filetage*<br>GL | Tubing connect.<br>*Raccords de tube*<br>GL | Porosity<br>*N° de porosité* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 500 | 45 | 14 | P0 | **2.414.500** |
| 500 | 45 | 14 | P1 | **2.414.501** |
| 500 | 45 | 14 | P2 | **2.414.502** |
| **Spare parts /** *Pièces de rechange* | | | | |
| Head, with 2 screw-threads, GL 14, sintered disk P0<br>*Tête seule à 2 filetages GL14 et avec disque en verre fritté P0* | | | | **2.414.001** |
| Head, with 2 screw-threads, GL 14, sintered disk P1<br>*Tête seule à 2 filetages GL14 et avec disque en verre fritté P1* | | | | **2.414.002** |
| Head, with 2 screw-threads, GL 14, sintered disk P2<br>*Tête seule à 2 filetages GL14 et avec disque en verre fritté P2* | | | | **2.414.003** |
| Screw cap, top closed, GL 18, with PTFE washer<br>*Bouchon à vis en PP GL 18 avec joint en téflon* | | | | **0.175.018** |




**2.414.*****



**2.416.*****

**Gas washing bottles,** with sintered disc, complete, made of borosilicate glass

***Flacon-laveur,*** *en verre borosilicaté, avec disque en verre fritté, complet*

| Capacity<br>*Capacité*<br>ml | Cone<br>*Cône mâle*<br>ST | Porosity<br>*N° de porosité* | Bowl Ø<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 34/45 | P0 | 25 | **2.416.100** |
| 100 | 34/45 | P1 | 25 | **2.416.101** |
| 100 | 34/45 | P2 | 25 | **2.416.102** |
| 250 | 45/40 | P0 | 34 | **2.416.250** |
| 250 | 45/40 | P1 | 34 | **2.416.251** |
| 250 | 45/40 | P2 | 34 | **2.416.252** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Bottle, 100 ml, with cone ST 34/45<br>*Flacon de 100 ml à rodage conique 34/45* | **2.416.001** |
| Bottle, 250 ml, with cone ST 45/40<br>*Flacon de 250 ml à rodage conique 45/40* | **2.416.002** |
| Head, for flask 100 ml, with socket ST 34/45, sintered disc P0<br>*Tête avec disque en verre fritté P0 pour flacon de 100 ml* | **2.416.003** |
| Head, for flask 100 ml, with socket ST 34/45, sintered disc P1<br>*Tête avec disque en verre fritté P1 pour flacon de 100 ml* | **2.416.004** |
| Head, for flask 100 ml, with socket ST 34/45, sintered disc P2<br>*Tête avec disque en verre fritté P2 pour flacon de 100 ml* | **2.416.005** |
| Head, for flask 250 ml, with socket ST 45/40, sintered disc P0<br>*Tête avec disque en verre fritté P0 pour flacon de 250 ml* | **2.416.006** |
| Head, for flask 250 ml, with socket ST 45/40, sintered disc P1<br>*Tête avec disque en verre fritté P1 pour flacon de 250 ml* | **2.416.007** |
| Head, for flask 250 ml, with socket ST 45/40, sintered disc P2<br>*Tête avec disque en verre fritté P2 pour flacon de 250 ml* | **2.416.008** |



**2.418.010**

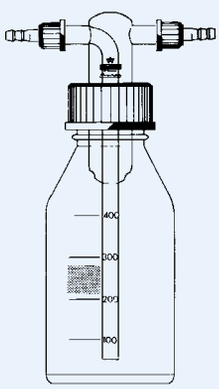
**Gas washing bottle,** with sintered disc, with GL 45, screw-thread cap and removable tube, porosity P1, disc Ø 60 mm, with plastic base to avoid breakage, capacity 350 ml, made of borosilicate glass

***Flacon-laveur,*** *en verre borosilicaté avec disque en verre fritté de P=1, bouchon à filetage GL 45 avec tube interchangeable, disque de 60 mm, embase en plastique, cap. 350 ml*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.418.010** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Security washing bottle, 350 ml, P1<br>*Flacon de sécurité de 350 ml, P1* | **2.418.011** |
| Tube with stop for washing bottle 350 ml<br>*Tube en verre pour flacon* | **2.418.012** |



**2.418.*****

**Security washing bottles,** with screw-thread, porosity P0, with 2 SVS-tubing connections GL 14, center neck GL 32, with septum, made of borosilicate glass

***Flacon-laveur de sécurité,*** *en verre borosilicaté, avec disque en verre fritté de P=0, à 2 raccords à vis GL 14 pour tuyau et col central à filetage GL 32 avec septum*

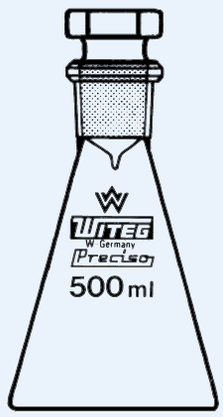
| Capacity<br>*Capacité*<br>ml | Washing intensity<br>*Intensité de lavage*<br>l/h | Order No.<br>*N° de code* |
|---|---|---|
| 200 | 80 | **2.418.200** |
| 300 | 100 | **2.418.230** |
| 500 | 130 | **2.418.250** |

## Special flasks
## *Fioles spéciales*

**Iodine determination flasks,** Sendtner, with ST hollow stoppers, hexagonal plate, made of borosilicate glass

***Fioles à iode de Sendtner,*** *en verre borosilicaté avec bouchon hexagonal à rodage 29/32*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 29/32 | **2.435.100** |
| 200 | 29/32 | **2.435.200** |
| 250 | 29/32 | **2.435.250** |
| 300 | 29/32 | **2.435.300** |
| 500 | 29/32 | **2.435.500** |
| 1000 | 29/32 | **2.435.001** |
| 2000 | 29/32 | **2.435.002** |




**2.435.*****

**BOD-Bottles, Karlsruher bottles,** with funnel, without stopper, made of borosilicate glass

***Bouteilles type Karlsruher pour la DBO,*** *en verre borosilicaté, avec entonnoir, sans bouchon*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 14/23 | **2.436.050** |
| 100 | 14/23 | **2.436.100** |
| 300 | 19/26 | **2.436.300** |



**2.436.*****

**ST-hollow stoppers,** with extra long stem, for BOD-bottles, made of borosilicate glass

***Bouchons,*** *en verre creux, extra long pour bouteille de DBO*

| Cone<br>*Cône mâle*<br>ST | Order No.<br>*N° de code* |
|---|---|
| 14,5/23 | **2.436.000** |
| 19/26 | **2.436.001** |

**Iodine flasks,** with funnel, with hollow ST-glass stopper, with extra long stem, made of borosilicate glass

***Fioles à Iode graduée,*** *en verre borosilicaté, avec entonnoir et bouchon en verre creux extra long*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 29/32 | **2.438.100** |
| 250 | 29/32 | **2.438.250** |
| 300 | 29/32 | **2.438.300** |
| 500 | 29/32 | **2.438.500** |
| 100 | 24/29 | **2.439.100** |
| 250 | 24/29 | **2.439.250** |
| 300 | 24/29 | **2.439.300** |
| 500 | 24/29 | **2.439.500** |
| **Spare parts /** *Pièces de rechange* | | |
| Spare stopper ST 29/32<br>*Bouchon à RN 29/32* | | **2.438.501** |
| Spare stopper ST 24/29<br>*Bouchon à RN 24/29* | | **2.439.501** |



**2.438.*****

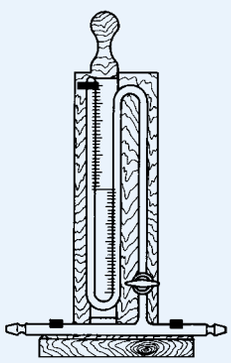


**2.446.*****

**Hybridization bottles,** with screw cap GL 45, fits hybridization ovens type Hybaid, Bellco, Labline, GFL, Heraeus etc., complete with silicone sealing, made of borosilicate glass

***Tubes d'hybridisation,*** *en verre borosilicaté avec bouchon à vis en PP GL 45 avec joint en silicone, pour utilisation dans les fours d'hybridisation de GFL, Labline, Bellco, Hybaid, Heraeus etc...*

| **Length**<br>***Longueur***<br>**mm** | **Ø**<br>***Ø***<br>**mm** | **Order No.**<br>***N° de code*** |
|---|---|---|
| 75 | 38 | **2.446.107** |
| 100 | 38 | **2.446.110** |
| 150 | 38 | **2.446.115** |
| 273 | 38 | **2.446.127** |
| 300 | 38 | **2.446.130** |
| 75 | 40 | **2.450.107** |
| 100 | 40 | **2.450.110** |
| 150 | 40 | **2.450.115** |
| 273 | 40 | **2.450.127** |
| 300 | 40 | **2.450.130** |



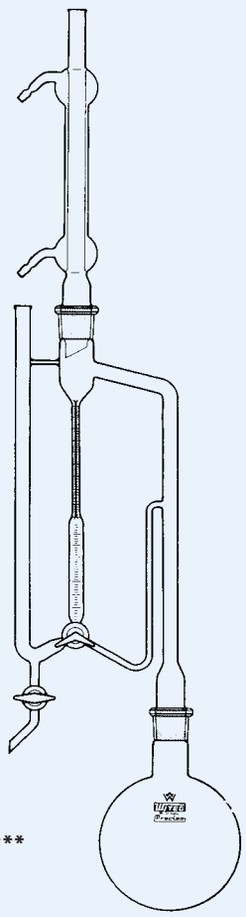
**2.504.*****

## Manometer
## *Manomètre*

**Manometer, Bennert,** with adjustable mirror-glass-scale, mounted on hard wood base, supplied without mercury

***Manomètre à vide en U de Bennert,*** *à échelle en verre miroité réglable montée sur châssis en bois. Fourni sans mercure*

| | **Order No.**<br>***N° de code*** |
|---|---|
| | **2.504.000** |



**2.505.*****

## Glass Apparatus
## *Appareil en verre*

**Apparatus for the determination of aromatic oils, Unger,** made of borosilicate glass

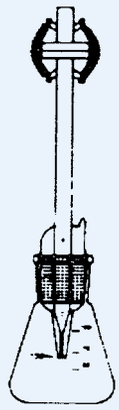
***Appareil pour la détermination des huiles aromatique selon Unger,*** *en verre brosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.000** |
| **Spare parts /** *Pièces de rechange* | |
| Flask, round bottom, 1000 ml, ST 29/32<br>*Ballon à fond rond, 1000ml RN 29/32* | **0.603.001** |
| Measuring tube, graduated,<br>9 ml : 0.05 ml and 1 ml : 0.01 ml, cone and socket ST 29/32<br>*Tube de mesure gradué de 9 ml : 0.05 ml et de 1 ml : 0.01ml à RN 29/32* | **2.505.002** |
| Condenser, Liebig, 250 mm jacket length, with cone ST 29/32<br>*Réfrigérant de Liebig, 250mm, RN 29/32* | **2.505.003** |

**Apparatus for the determination of Arsenic DAB,** made of borosilicate glass

***Appareillage pour la détermination de l'arsenic,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.100** |
| **Spare parts /** *Pièces de rechange* | |
| 2 springs, length of spirals 10 mm<br>*2 ressorts de fixation de 10 mm* | **2.111.000** |
| Graduated Erlenmeyer flask, 100 ml ST 29/32<br>*Fiole Erlenmeyer graduée, 100 ml, à rodage 29/32* | **0.622.100** |
| Tube with ST 29/32 and flange<br>*Tube à rodage 29/32 et flansch* | **2.505.102** |
| Adapter with flange<br>*Adaptateur avec flansch* | **2.505.103** |

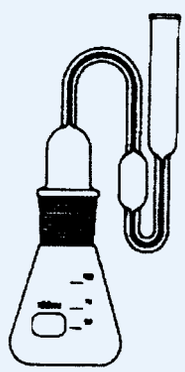


**2.505.100**

**Apparatus for the determination of Arsenic** By the colorimetric method using silver-diethyl-dithiocarbamat, made of borosilicate glass

***Appareillage pour la détermination de l'arsenic*** *par la méthode colorimétrique, en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.110** |
| **Spare parts /** *Pièces de rechange* | |
| Graduated Erlenmeyer flask, 100 ml ST 29/32<br>*Fiole Erlenmeyer graduée, 100 ml, à rodage 29/32* | **0.622.100** |
| Reaction tube with ST 29/32<br>*Tube à réaction à rodage 29/32* | **2.505.111** |

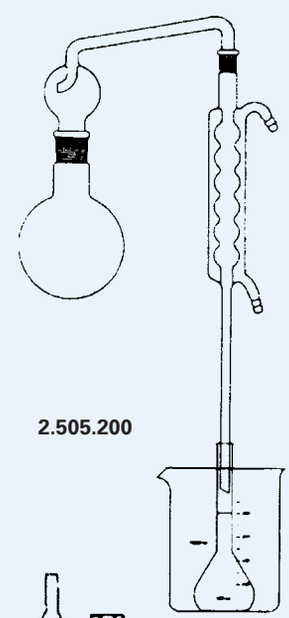


**2.505.110**

**Apparatus for the determination of Ethanol,** made of borosilicate glass

***Appareillage pour la détermination du degré alcoométrique,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.200** |
| **Spare parts /** *Pièces de rechange* | |
| Round bottom flask 500 ml with ST 29/32<br>*Ballon à fond rond, en verre borosilicaté, 500 ml, col à rodage 29/32* | **0.603.500** |
| Distilling link ST 29/32 with vertical splash head and cone 14/23<br>*Pont de distillation à rodage 29/32 avec tête verticale et rodage conique 14/23* | **1.205.301 A** |
| Allihn condenser with narrow delivery tube and ST 14/23<br>*Réfrigérant d'Allihn avec tube étroit et rodage 14/23* | **1.725.250 A** |
| Volumetric flask, 100 ml<br>*Fiole jaugée, 100 ml* | **3.662.010** |
| Low form beaker graduated with spout, 1000 ml<br>*Bécher gradué à forme basse avec bec, 1000 ml* | **5.500.001 B** |

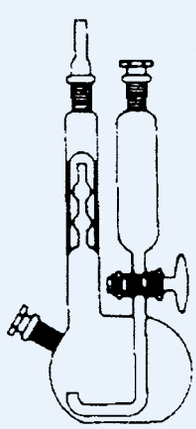


**2.505.200**

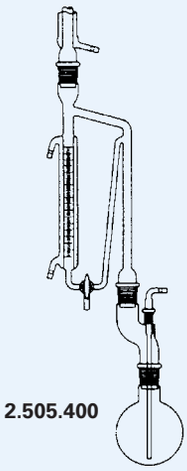
**Apparatus for the determination of Carbon Dioxide,** made of borosilicate glass

***Appareillage pour la détermination du $CO_2$,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.300** |



**2.505.300**

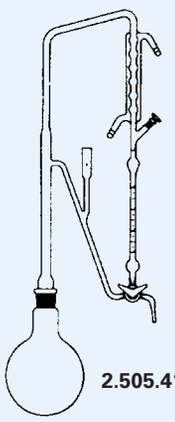


2.505.400

**Apparatus for the determination of essential oils**, made of borosilicate glass

***Appareillage pour la détermination des huiles essentielles,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.400** |
| **Spare parts /** *Pièces de rechange* | |
| Round bottom flask, 500 ml, ST 29/32<br>*Ballon à fond rond, 500 ml, col à rodage 29/32* | **0.603.500** |
| Inlet tube, GL 14 and cone ST 14/23<br>*Tube d'introduction, GL14 et à rodage conique 14/23* | **1.251.014 S** |
| Liebig condenser, ST 29/32, 250 mm<br>*Réfrigérant de Liebig, à rodage 29/32, 250 mm* | **1.704.250** |
| Connecting tube, bent, cone ST 29/32, sockets ST 29/32 and ST 14/23<br>*Tube coudé de raccordement, rodage conique 29/32 et rodages femelles 29/32 et 14/23* | **3.625.304** |
| Measuring tube, jacketed, graduated 0-12,5:0,1 ml, Schellbach<br>*Tube de mesure à manteau, gradué 0-12,5:0.1 ml, à bande en émail bleu* | **2.505.401** |



2.505.410

**Apparatus for the determination of essential oils, DAB**, made of borosilicate glass

***Appareillage pour la détermination des huiles essentielles, méthode DAB,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.410** |
| **Spare parts /** *Pièces de rechange* | |
| Round bottom flask, 1000 ml, ST 29/32<br>*Ballon à fond rond, 1000 ml, col à rodage 29/32* | **0.603.001** |
| Distillation head with measuring tube 1: 0,01 ml and bulb condenser<br>*Tête de distillation avec tube de mesure 1:0.01 ml et réfrigérant à boules* | **2.505.411** |
| Hollow stopper ST 7/16 with hole<br>*Bouchon en verre creux avec trou, rodage 7/16* | **2.505.412** |

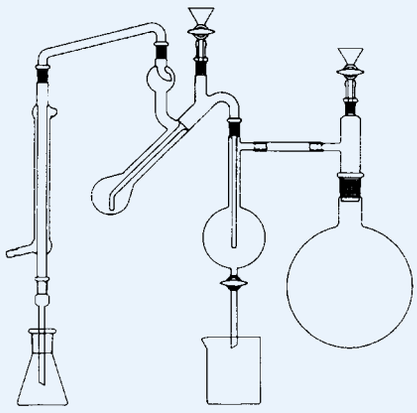


2.505.500

**Apparatus for the determination of sulphur content in hydrocarbons, Schöninger**, made of borosilicate glass, with platinum wire and platinum gauze

***Appareil pour la détermination de la teneur en soufre des hydrocarbures selon la méthode de Schöninger,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.500** |
| **Spare parts /** *Pièces de rechange* | |
| Erlenmeyer flask, 500 ml, ST 29/32<br>*Fiole Erlenmeyer, 500 ml, à rodage 29/32* | **0.622.500** |
| Stopper with platinum wire and gauze<br>*Bouchon avec fil de platine et grille* | **2.505.501** |



2.505.600

**Micro apparatus for the determination of nitrogen acc.to Parnas-Wagner, complete, Kjeldahl flask with trap 50 ml**, made of borosilicate glass

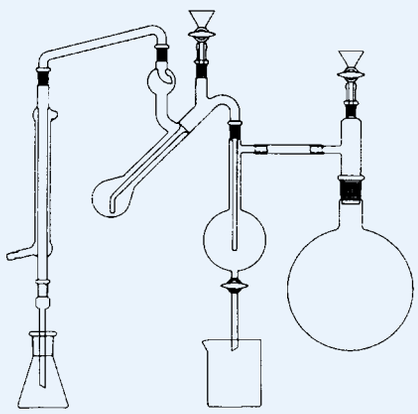
***Micro-appareillage pour la détermination de l'azote selon Parnas-Wagner avec fiole de 50 ml,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.600** |

**Macro apparatus for determination of nitrogen acc.to Parnas-Wagner, complete, Kjeldahl flask with trap 250 ml**, made of borosilicate glass

***Macro-appareillage pour la détermination de l'azote selon Parnas-Wagner avec fiole de 250 ml,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.610** |
| **Spare parts /** *Pièces de rechange* | |
| Coupling, 2 x GL 18<br>*Raccord, 2 x GL 18* | **0.184.018** |
| Round bottom flask, 2L, ST 29/32<br>*Ballon à fond rond, 2 litres, col à rodage 29/32* | **0.603.002** |
| Erlenmeyer flask, 100 ml, ST 29/32<br>*Fiole Erlenemeyer, 100 ml, col à rodage 29/32* | **0.622.100** |
| Distilling link, 2xST 14/23<br>*Pont de distillation, à 2 rodages 14/23* | **2.505.611** |
| Liebig condenser, 160 mm, ST 14/23<br>*Réfrigérant de Liebig, 160 mm, à rodage 14/23* | **1.706.160** |
| Delivery adapter, straight, socket ST 14/23<br>*Adaptateur de distribution droit, à rodage 14/23* | **1.900.014** |
| Funnel with stopcock, cone 2 x ST 14/23<br>*Entonnoir à robinet, à 2 rodages coniques 14/23* | **2.505.612** |
| Distilling head ST 29/32 and ST 14/23, side tube with GL 18<br>*Tête de distillation, à rodages 29/32 et 14/23, avec tube latéral GL 18* | **2.505.613** |
| Suction device with stopcock and side tube with GL 18, 250 ml<br>*Dispositif d'aspiration à robinet et tube latéral GL 18, 250 ml* | **2.505.614** |
| Micro-Kjeldahl flask with drop trap, 50 ml<br>*Micro-fiole de Kjeldahl avec piège à goutte, 50 ml* | **2.505.615** |
| Macro-Kjeldahl flask with 250 ml<br>*Macro-fiole de Kjeldahl, 250 ml* | **2.505.616** |
| Beaker, 250 ml<br>*Bécher, 250 ml* | **5.500.250 B** |



**2.505.610**

**Sedimentation apparatus,** Andreasen for the particle size determination of mortar, clay, cement, flour, coal dust etc... cylinder graduated 0-20 : 1 cm, ST 29/32, with 10 ml pipette, made of borosilicate glass

***Appareil de sedimentation*** *d'Andreasen pour la détermination granulométrique du sol, ciment, béton, argile, farine etc.., Avec cylindre gradué 0-20 : 1 cm à col rodé 29/32 et pipette de 10 ml, en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.505.700** |
| **Spare parts /** *Pièces de rechange* | |
| Measuring cylinder, ST 29/32<br>*Eprouvette graduée, à rodage 29/32* | **2.505.701** |
| Pipette only, 10 ml, ST 29/32<br>*Pipette d'Andreasen, seule, à rodage 29/32* | **2.505.702** |

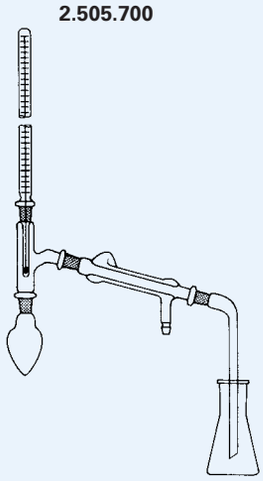


**2.505.700**

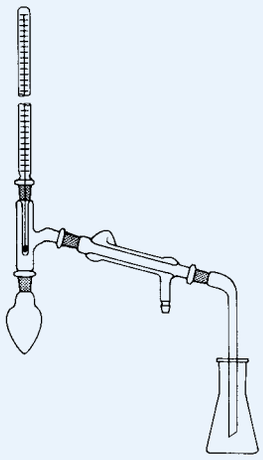
**Distillation apparatus for normal pressure,** flask 25 ml, joints ST 14/23, made of borosilicate glass

***Appareil de distillation pour pression normale,*** *avec ballon de 25 ml à col rodé 14/23, en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.506.100** |
| **Spare parts /** *Pièces de rechange* | |
| Forked clamp for ST 14/23 (4x)<br>*Pinces à fourche RN 14/23 (4x)* | **0.131.314** |
| Support, rod 500 x 13 mm<br>*Statif avec tige de 500 x 13 mm* | **8.415.003** |
| Connector for rods of 13 mm<br>*Noix pour tige de 13 mm* | **8.433.002** |
| Clamp, shaft length 150 mm, 25 mm (2x)<br>*Pince à queue de 150 mm et ouverture 25 mm (2x)* | **8.438.001** |



**2.506.100**

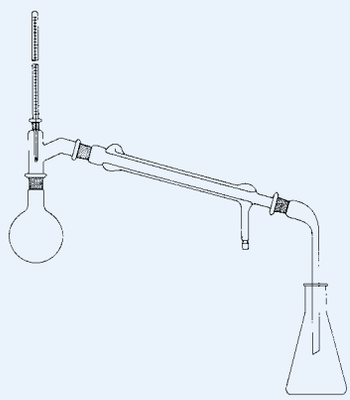


**2.506.110**

**Distillation apparatus for normal pressure,** flask 100 ml, joints ST 19/26, made of borosilicate glass

***Appareil de distillation pour pression normale,*** *avec ballon de 100 ml à col rodé 19/26, en verre borosilicaté*

| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| Complete / *Complet* | **2.506.110** |
| **Spare parts /** *Pièces de rechange* | |
| Forked clamp for ST 14/23 *Pinces à fourche RN 14/23* | **0.131.314** |
| Forked clamp for ST 19/26 (3x) *Pinces à fourche RN 19/26 (3x)* | **0.131.319** |
| Support, rod 500 x 13 mm *Statif avec tige de 500 x 13 mm* | **8.415.003** |
| Connector for rods of 13 mm *Noix pour tige de 13 mm* | **8.433.002** |
| Clamp, shaft length 150 mm, 25 mm (2x) *Pince à queue de 150 mm et ouverture 25 mm (2x)* | **8.438.001** |

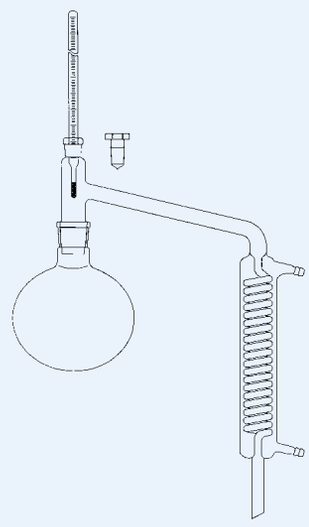


**2.506.120**

**Distillation apparatus for normal pressure,** flask 500 ml, joints ST 29/32, made of borosilicate glass

***Appareil de distillation pour pression normale,*** *avec ballon de 500 ml à col rodé 29/32, en verre borosilicaté*

| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| Complete / *Complet* | **2.506.120** |
| **Spare parts /** *Pièces de rechange* | |
| Forked clamp for ST 14/23 *Pinces à fourche RN 14/23* | **0.131.314** |
| Forked clamp for ST 29/32 (3x) *Pinces à fourche RN 29/32 (3x)* | **0.131.329** |
| Support, rod 750 x 13 mm *Statif avec tige de 750 x 13 mm* | **8.415.003** |
| Connector for rods of 13 mm (2x) *Noix pour tige de 13 mm (2x)* | **8.433.002** |
| Clamp, shaft length 150 mm, 25 mm (2x) *Pince à queue de 150 mm et ouverture 25 mm (2x)* | **8.438.001** |



**2.506.200**

**Distillation apparatus for recovering of solvents,** flask 1 l, made of borosilicate glass

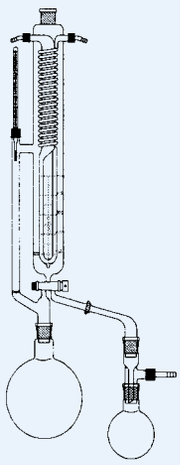
***Appareil de distillation pour la récupération des solvents*** *avec ballon de 1 litre, en verre borosilicaté*

| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| Complete / *Complet* | **2.506.200** |
| **Spare parts /** *Pièces de rechange* | |
| Forked clamp for ST 14/23 *Pinces à fourche RN 14/23* | **0.131.314** |
| Forked clamp for ST 29/32 *Pinces à fourche RN 29/32* | **0.131.329** |
| Support, rod 750 x 13 mm *Statif avec tige de 750 x 13 mm* | **8.415.003** |
| Connector for rods of 13 mm (2x) *Noix pour tige de 13 mm (2x)* | **8.433.002** |
| Clamp, shaft length 150 mm, 25 mm *Pince à queue de 150 mm et ouverture 25 mm* | **8.438.001** |
| Clamp, shaft length 150 mm, 80 mm *Pince à queue de 150 mm et ouverture 80 mm* | **8.438.003** |

**Distillation apparatus for recovering of solvents,** for use with normal pressure, vacuum or inert gas, made of borosilicate glass

***Unité de distillation pour la récupération des solvents,*** *pour travaux à pression normale, vide ou gaz inerte, en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.506.210** |
| **Spare parts /** *Pièces de rechange* | |
| Forked clamp for ST 24/29 (2x)<br>*Pinces à fourche RN 24/29 (2x)* | **0.131.324** |
| Forked clamp for ST 29/32 (2x)<br>*Pinces à fourche RN 29/32 (2x)* | **0.131.329** |
| Delivery adapter, socket S 19, cone ST 24/29, with three way stopcock<br>*Adaptateur à rodage femelle 19 et rodage conique 24/29, à robinet à 3 voies* | **2.506.213** |
| Glass rings, Raschig 3 x 3 mm<br>*Anneaux en verre de Raschig, 3 x 3 mm* | **1.550.003** |
| Dewar condenser, ST 29/32, 250 x 50 mm<br>*Réfrigérant Dewar à RN 29/32, 250 x 50 mm* | **2.506.215** |
| Drying tube, bent 75°, ST 29/32<br>*Tube de séchage coudé à 75°, RN 29/32* | **1.660.029** |
| Drying tube, 130 x 13 mm, for adapter<br>*Tube de séchage 130 x 13 mm, pour adaptateur* | **2.110.130** |
| Support, rod 750 x 13 mm<br>*Statif avec tige de 750 x 13 mm* | **8.415.003** |
| Connector for rods of 13 mm (2x)<br>*Noix pour tige de 13 mm (2x)* | **8.433.002** |
| Clamp, shaft length 150 mm, 25 mm<br>*Pince à queue de 150 mm et ouverture 25 mm* | **8.438.001** |
| Clamp, shaft length 150 mm, 80 mm<br>*Pince à queue de 150 mm et ouverture 80 mm* | **8.438.003** |

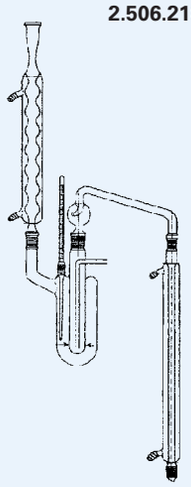


**2.506.210**

**Apparatus for the determination of Fluoride,** without stand and clamps, made of borosilicate glass

***Appareillage pour la détermination des fluorures,*** *sans système de fixation, en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.506.300** |

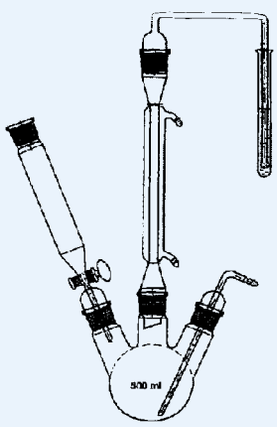


**2.506.300**

**Apparatus for the determination of sulfur dioxyde (SO2)** by distillation with flask 500 ml, made of borosilicate glass

***Appareillage pour la détermination du dioxide de soufre (SO2)*** *par distillation avec ballon de 500 ml, en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.506.400** |




**2.506.400**

**Calcimeter Dietrich-Frühling (Gazometer)**
Used for the determination of calcium carbonate ($CaCO_3$) in certain products such as limestone and lime marl. It mainly consists of a glass container in which the reaction between the calcium carbonate present in the product and a solution of hydrocloridric acid takes place.The gased product is collected and measured by a device connected to the container.
As the volume of the produced gas ($CO_2$) is in relation to the $CaCO_2$ amount contained in the material, it is possible to calculate the percentage of $CaCO_3$. Supplied complete set of glassware, metal stand and clamps.
Dimensions: 400 x 200 x 1100 mm.
Weight: 13 Kg

***Calcimètre Dietrich-Frühling***
*pour la détermination du carbonate de calcium ($CaCO_3$) dans certains produits tels que la chaux ou autres. Il consiste en un réservoir en verre dans lequel la réaction a lieu en présence du $CaCO_3$ dans le produit et la solution d'acide hydrochloridrique. Le gaz est collecté et mesuré à l'aide d'un dispositif raccordé au récipient. Vu que le volume du gaz produit ($CO_2$) est en relation avec la teneur en $CaCO_2$ du produit, il est possible de calculer le pourcentage de $CaCO_3$. Livré complet avec kit de verrerie, support en métal et fixations.*
*Dimensions: 400 x 200 x 1100 mm*
*Poids: 13 kg*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.506.500** |



**2.506.500**

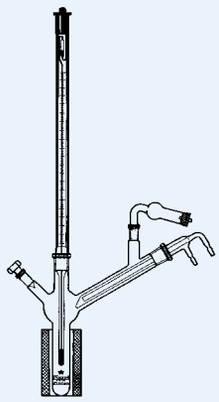


**2.506.600**

**Calcimeter acc. to Bernard**
Apparatus for the measurement of $CO_2$ volume by adding hydrochloric acid on the calcium carbonate ($CaCO_3$) of a rock or soil sample. It consists of a spherical funnel, a graduated tube of 100 cm³, an Erlenmeyer flask of 100 cm³, a small tube, 2 perforated stoppers, 1,5 m latex tubing, stand with rod and clamp. (It is necessary to use a weighing balance with readability 0.01g), made of borosilicate glass

***Calcimètre de Bernard***
*Appareil permettant de mesurer le volume de $CO_2$ dégagé par action de l'acide chlorhydrique ($HC_l$) sur le carbonate de calcium ($CaCO_3$) d'un échantillon de sol ou de roche.Il est consituté d'une ampoule sphérique, d'un tube gradué de 100 cm³, d'une fiole Erlenmeyer de 100 cm³, d'un petit tube en verre, de deux bouchons à un trou, un tuyau de 1,5 m en caoutchouc et un statif avec tige et pince de fixation (Prévoir une balance de pesage avec lecture au 0.01g), en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.506.600** |

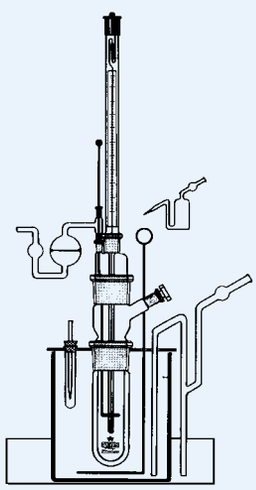


**2.510.*****

**Apparatus for determination of molecular weights,** Beckmann, for boiling method, with air jacket, made of borosilicate glass

***Appareil de Beckmann pour la détermination du poids moléculaire par la méthode d'ébullition,** à manteau réfrigéré, en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.510.000** |
| **Spare parts /** *Pièces de rechange* | |
| Air jacket<br>*Manteau à air* | **2.510.001** |
| Boiling tube with 2 ST 19/29, 2 ST 14/23 and 1 ST 10/19<br>*Tube d'ébullition à 2 RN 19/29, 2 RN 14/23 et 1 RN 10/19* | **2.510.002** |
| Condenser with ST 19/26<br>*Réfrigérant à RN 19/26* | **2.510.003** |
| Drying tube with ST 10/19<br>*Tube de séchage à RN 10/19* | **2.510.004** |
| Hollow stopper ST 14/23<br>*Bouchon en verre creux à RN 14/23* | **0.302.014** |
| Thermometer, Beckmann, 5 - 6 °C : 0.01 °C, with ST 19/26<br>*Thermomètre de Beckmann, 5-6°C:0.01°C à RN 19/26* | **2.510.006** |



**2.512.*****

**Apparatus for determination of molecular weights,** Beckmann, for freezing point method, with glass stirrer, made of borosilicate glass

***Appareil pour la détermination du poids moléculaire par la méthode à point de congélation,** avec agitateur en verre borosilicaté*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.512.000** |
| **Spare parts /** *Pièces de rechange* | |
| Vessel for freezing mixture with cover<br>*Récipient pour mélange de congélation avec couvercle* | **2.512.001** |
| Through / *Passage* | **2.512.002** |
| Freezing tube with 2 ST 45/40, 1 ST 14/23<br>*Tube de congélation à 2 RN 45/40 et 1 RN 14/23* | **2.512.003** |
| Air jacket with ST 45/40 / *Manteau à air RN 45/40* | **2.512.004** |
| Connection tube with ST 45/40, ST 19/26 and ST 7/16<br>*Tube de raccordement à RN 45/40, RN 19/26 et RN 7/16* | **2.512.005** |
| Drying tube with ST 7/16<br>*Tube de séchage à RN 7/16* | **2.512.006** |
| Thermometer, Beckmann, 5 - 6 °C : 0.01 °C, with ST 19/26<br>*Thermomètre de Beckmann 5-6°C : 0.01°C à RN 19/26* | **2.512.007** |
| Filling tube / *Tube de remplissage* | **2.512.008** |
| Tube and pin / *Tube et réservoir* | **2.512.009** |
| Stirrer, made of metal / *Agitateur en métal* | **2.512.010** |
| Syphon / *Syphon* | **2.512.011** |
| Thermometer -35 °C to +50 °C / *Thermomètre de contrôle -35/+ 50°C* | **2.512.012** |
| Stirrer, made of glass / *Agitateur en verre* | **2.512.013** |
| Hollow stopper ST 14/23 / *Bouchon en verre creux à RN 14/23* | **0.302.014** |

## Kuderna-Danish sample concentrators
*Concentrateurs Kuderna-Danish*

**Kuderna-Danish sample concentrator, type „Macro“ with ground joints**
Widely used in semi-volatile and pesticide analysis. **For US EPA protocol.** Developed for concentrating compounds dissolved in volatile solvents, made of borosilicate glass. Supplied with:
Snyder column 3-ball, flask 500 ml, and receiving vessel 15 ml

***Concentrateur Kuderna-Danish, version macro à rodages normalisés,*** *utilisé pour les analyses de pesticides et semi-volatiles. Livré avec une colonne à 3 boules de Snyder, fiole de 500 ml et tube-collecteur de 15 ml, en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.520.000** |
| **Spare parts /** *Pièces de rechange* | |
| Snyder column, 2-ball<br>*Colonne de Snyder, à 2 boules* | **2.520.100** |
| Snyder column, 3-ball<br>*Colonne de Snyder, à 3 boules* | **2.520.101** |
| Flask, capacity 250 ml / *Fiole de 250 ml* | **2.520.110** |
| Flask, capacity 500 ml / *Fiole de 500 ml* | **2.520.111** |
| Receiving vessel, capacity 4 ml<br>*Tube-récepteur de 4 ml* | **2.520.120** |
| Receiving vessel, capacity 10 ml<br>*Tube-récepteur de 10 ml* | **2.520.121** |
| Receiving vessel, capacity 15 ml<br>*Tube-récepteur de 15 ml* | **2.520.122** |
| Receiving vessel, capacity 20 ml<br>*Tube-récepteur de 20 ml* | **2.520.123** |
| Glass stopper, ST 19/22<br>*Bouchon en verre RN 19/22* | **2.520.130** |
| Springs, 13 mm, pack of 20 pcs.<br>*Ressorts de fixation de 13 mm, en paquet de 20* | **2.520.140** |
| Sleeves, made of Teflon, ST 19/22, pack of 5 pcs.<br>*Manchons en téflon à RN 19/22, en paquet de 5* | **2.520.150** |
| Sleeves, made of Teflon, ST 24/40, pack of 5 pcs.<br>*Manchons en téflon à RN 24/40, en paquet de 5* | **2.520.151** |
| Plastic clips, ST 19/22, pack of 5 pcs.<br>*Pinces de fixation en plastique RN 19/22, en paquet de 5* | **2.520.160** |
| Plastic clips, ST 24/40, pack of 5 pcs.<br>*Pinces de fixation en plastique RN 24/402, en paquet de 5* | **2.520.161** |



**2.520.*****



**2.521.*****

**Kuderna-Danish sample concentrator, type „Macro“ with threads.** Widely used in semi-volatile and pesticide analysis. **For US EPA protocol.** Developed for concentrating compounds dissolved in volatile solvents, made of borosilicate glass. Supplied with: Snyder column 3-ball, flask 500 ml, receiving vessel 15 ml and micro connectors ST 20/20

***Concentrateur Kuderna-Danish, version macro à raccords filetés à vis,*** *utilisé pour les analyses de pesticides et semi-volatiles. Livré avec une colonne à 3 boules de Snyder, fiole de 500 ml et tube-collecteur de 15 ml, en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.521.000** |
| **Spare parts /** *Pièces de rechange* | |
| Snyder column, 3-ball<br>*Colonne de Snyder, à 3 boules* | **2.521.100** |
| Flask, capacity 250 ml / *Fiole de 250 ml* | **2.521.110** |
| Flask, capacity 500 ml / *Fiole de 500 ml* | **2.521.111** |
| Receiving vessel, capacity 4 ml<br>*Tube-récepteur de 4 ml* | **2.521.120** |
| Receiving vessel, capacity 10 ml<br>*Tube-récepteur de 10 ml* | **2.521.121** |
| Receiving vessel, capacity 15 ml<br>*Tube-récepteur de 15 ml* | **2.521.122** |
| Receiving vessel, capacity 20 ml<br>*Tube-récepteur de 20 ml* | **2.521.123** |
| Micro connectors, ST 20/20, pack of 6 pcs.<br>*Micro-raccords RN 20/20, en paquet de 6* | **2.521.130** |
| Micro connectors, ST 13/13, pack of 6 pcs.<br>*Micro-raccords RN 13/13, en paquet de 6* | **2.521.131** |
| Micro connectors, ST 13/20, pack of 6 pcs.<br>*Micro-raccords RN 13/20, en paquet de 6* | **2.521.132** |



**2.522.*****

**Kuderna-Danish sample concentrator, type „Micro“ with ground joints**
Widely used in semi volatile and pesticide analysis. **For US EPA protocol.** Developed for concentrating compounds dissolved in volatile solvents. Supplied with: Snyder column 0-ball, flask 40 ml, and receiving vessel 2 ml, made of borosilicate glass

***Concentrateur Kuderna-Danish, version micro à rodages normalisés,*** *utilisé pour les analyses de pesticides et semi-volatiles. Livré avec une colonne sans boules de Snyder, fiole de 40 ml et tube-collecteur de 2 ml, en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.522.000** |
| **Spare parts /** *Pièces de rechange* | |
| Snyder column, 0-ball<br>*Colonne de Snyder, sans boules* | **2.522.100** |
| Snyder column, 2-ball<br>*Colonne de Snyder, à 2 boules* | **2.522.101** |
| Snyder column, 3-ball<br>*Colonne de Snyder, à 3 boules* | **2.522.102** |
| Flask, capacity 40 ml / *Fiole de 40 ml* | **2.522.110** |
| Flask, capacity 250 ml / *Fiole de 250 ml* | **2.522.111** |
| Receiving vessel, capacity 2 ml<br>*Tube-récepteur de 2 ml* | **2.522.120** |
| Receiving vessel, capacity 4 ml<br>*Tube-récepteur de 4 ml* | **2.520.120** |
| Receiving vessel, capacity 10 ml<br>*Tube-récepteur de 10 ml* | **2.520.121** |
| Springs, 13 mm, pack of 20 pcs.<br>*Ressorts de fixation de 13 mm, en paquet de 20* | **2.520.140** |
| Sleeves, made of Teflon, ST 19/22, pack of 5 pcs.<br>*Manchons en téflon à RN 19/22, en paquet de 5* | **2.520.150** |
| Plastic clips, ST 19/22, pack of 5 pcs.<br>*Pinces de fixation en plastique RN 19/22, en paquet de 5* | **2.520.160** |

**Kuderna-Danish sample concentrator, type „Micro“ with thrreads.** Widely used in semi-volatile and pesticide analysis. **For US EPA protocol.** Developed for concentrating compounds dissolved in volatile solvents, made of borosilicate glass. Supplied with:Snyder column 3-ball, flask 40 ml,
receiving vessel 2 ml, micro connectors ST 13/13 and ST 20/20

***Concentrateur Kuderna-Danish, version micro à raccords filetés à vis,*** *utilisé pour les analyses de pesticides et semi-volatiles, en verre borosilicaté. Livré avec une colonne à 3 boules de Snyder, fiole de 40 ml, tube-collecteur de 2 ml et micro-raccords RN13/13 et RN 20720*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.523.000** |
| **Spare parts /** *Pièces de rechange* | |
| Snyder column, 3-ball<br>*Colonne de Snyder à 3 boules* | **2.523.100** |
| Flask, capacity 40 ml<br>*Fiole de 40 ml* | **2.523.110** |
| Flask, capacity 250 ml<br>*Fiole de 250 ml* | **2.521.110** |
| Receiving vessel, capacity 2 ml<br>*Tube-collecteur de 2 ml* | **2.523.120** |
| Receiving vessel, capacity 4 ml<br>*Tube-collecteur de 4 ml* | **2.521.120** |
| Receiving vessel, capacity 10 ml<br>*Tube-collecteur de 10 ml* | **2.521.121** |
| Micro connectors, ST 20/20, pack of 6 pcs.<br>*Micro-raccords, RN 20/20, jeu de 6* | **2.521.130** |
| Micro connectors, ST 13/13, pack of 6 pcs.<br>*Micro-raccords, RN 13/13, jeu de 6* | **2.521.131** |
| Micro connectors, ST 13/20, pack of 6 pcs.<br>*Micro-raccords, RN 13/20, jeu de 6* | **2.521.132** |



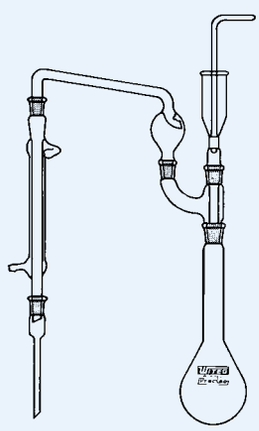
**2.523.*****

## Apparatus for macro-Kjeldahl distillation
## *Appareil de distillation macro-Kjeldahl*

**Apparatus for macro-Kjeldahl distillation,** made of borosilicate glass

***Appareil de distillation macro-Kjeldahl,*** *en verre borosilicaté*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.530.000** |
| **Spare parts /** *Pièces de rechange* | |
| Condenser, Liebig, 250 mm jacket length, with 2 ST 19/26<br>*Réfrigérant de Liebig de longueur utile 250 mm à 2 RN 29/32* | **1.708.250** |
| Funnel stopper, ST 10/19<br>*Bouchon d'entonnoir RN 10/19* | **2.530.002** |
| Dropping funnel, 50 ml, open top, socket ST 10/19, cone ST 19/26<br>*Ampoule à goutte de 50 ml à RN 10/19 et RN 19/26* | **2.530.003** |
| Flask, Kjeldahl, 500 ml, ST 29/32<br>*Fiole de Kjeldahl, 500 ml, RN 29/32* | **5.518.504** |
| Multible adapter, cone ST 29/32, 2 sockets ST 19/26<br>*Adaptateur multiple à RN 29/32 et 2 RN 19/26* | **1.400.007** |
| Distilling links, with certical splash head<br>2 ST 19/26, length 250 mm<br>*Pont de distillation avec ampoule de garde, 250 mm, à 2 RN 19/26* | **2.530.006** |
| Delivery adapter ST 19/26, tube length 80 mm<br>*Allonge de distillation à RN 19/26, longueur du tube 80 mm* | **1.900.019** |



**2.530.*****

## Anerobic jars
## *Jarres d'Abérobie*

Anerobic jars, designed for the cultivation of anaerobic or micro-aerophilic microorganisms in a defined gas environment. Containers available are made of robust stainless steel or made of transparent Polycarbonat. All jars are suitable for use with chemical anaerobic systems. The racks (optional) provide brackets for holding gas packs/catalysts.

Jars equipped with valves and manometer are also suitable for filling and evacuating or flushing with the requested gas. In this case no chemical equipment is needed. The manometer mounted on the lid allows for precise monitoring of vacuum or positive pressure (-1... +0.2 bar) at any time.
On request special covers, e.g. with heat-resistant manometer are available.

*Jarres d'Anérobie, concues pour la culture de micro-organismes anérobiques ou micro-aérophiliques dans un environnement gazeux défini. Les jarres sont disponibles en acier inoxydable ou en polycarbonat transparent et sont toutes résistances aux agents chimiques d'anérobie. Les racks optionnels servent de support pour les générateurs de gaz . Les jarres équipées de vannes et d'un manomètre sont aussi utilisées pour le remplissage et l'évacuation ou pour le flushing à l'aide du gaz nécessaire. Dans ce cas, on ne nécessite pas d'équipement chimique. Le manomètre monté sur le couvercle permet de régler le vide ou la pression positive (-1 à +0.2 bar) d'une manière précise et à tout moment.*
*Sur demande des couvercles spéciaux sont disponibles, par ex. avec manomètre résistant à la chaleur.*

**Anerobic jars,** made of stainless steel, robust and easy to clean, suitable for the cultivation of anaerobic and microaerophilic micro organisms as well as for filling with CO2. Supplied with cover made of plastic black, equipped with a vacuumeter for precise vacuum control or positive pressure (-1 bar to 0.2 bar). These jars are available in 3 dimensions

***Jarres d'anérobie,*** *en acier inoxydable robuste et facile à nettoyer, utilisées pour la culture de micro oraganisme anérobique et microaerophilique ainsi que pour le remplissage au CO2. Livrées avec couvercle en plastique noir, équipé d'un manomètre à vide pour le contrôle précis du vide ou de la pression positive (-1 bar à 0.2 bar). Disposibles en 3 dimensions*

| **Inner Ø** *Ø int.* mm | **Inner height** *Hauteur int.* mm | **Capacity** *Capacité* l | **Order No.** *N° de code* |
|---|---|---|---|
| 120 | 165 | 2.0 | **2.540.000** |
| 120 | 270 | 3.0 | **2.540.100** |
| 175 | 270 | 6.0 | **2.540.200** |



**Accessories** / *Accessoires*

| | |
|---|---|
| Rack for 10 Petri dishes of dia. 60-100 mm x 16 mm height, suitable for all anerobic jars 2.540.000/100/200<br>*Portoir pour 10 boites de Pétri de dia. 60 à 100 mm x 16 mm de hauteur, recommandé pour les jarres d'anérobie 2.540.000/100/200* | **2.540.300** |
| Rack for 15 Petri dishes of dia. 60-100 mm x 16 mm height, suitable for all anerobic jars 2.540.000/100/200<br>*Portoir pour 15 boites de Pétri de dia. 60 à 100 mm x 16 mm de hauteur, recommandé pour les jarres d'anérobie 2.540.000/100/200* | **2.540.301** |
| Rack for 15 Petri dishes of dia. 150 mm x 16 mm height, suitable for anerobic jar 2.540.200<br>*Portoir pour 15 boites de Pétri de dia. 60 à 100 mm x 16 mm de hauteur, recommandé pour jar d'anérobie 2.540.200* | **2.540.302** |
| Rack for 45 Petri dishes of dia. 60 mm x 16 mm height, suitable for anerobic jar 2.540.200<br>*Portoir pour 15 boites de Pétri de dia. 60 à 100 mm x 16 mm de hauteur, recommandé pour jar d'anérobie 2.540.200* | **2.540.303** |
| Rack for multiwell plates (microtiter), suitable for anerobic jar 2.540.200<br>*Portoir pour plaques de microtitration, recommandé pour jar d'anérobie 2.540.200* | **2.540.304** |
| Rack for 9 test tubes with dia. up to 18 mm, suitable for all anerobic jars 2.540.000/100/200<br>*Portoir pour 9 tubes à essai jusqu'à un dia. de 18 mm, recommandé pour les jarres d'anérobie 2.540.000/100/200* | **2.540.305** |
| Anaerobiosis indicators, in standard pack of 100 pcs.<br>*Indicateurs d'anérobiose, en paquet standard de 100* | **2.540.306** |
| Catalyst bags, in standard pack of 5 pcs.<br>*Sachets de catalyseur, en paquet standard de 5* | **2.540.307** |

**Anerobic jar (3.0 L)**
it consists of a robust clear Polycarbonate base with a capacity of 3.0 litres closed by a clear polycarbonat lid with two valves and one manometer.
Dimensions: inner Ø 120 mm x 270 mm height

***Jarre d'anérobie (3.0 L)***
*en polycarbonate transparent d'une capaicté de 3 litres munie d'un couvercle en polycarbonate transparent équipé de 2 vannes et d'un manomètre. Dimensions: dia. int. 120 mm x 270 mm de hauteur*



| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| Complete / *Complet* | **2.541.000** |

**Gas generating kits,**
the gas generating kits for Campylobacter isolation constitute a reliable and convenient method for producing suitable gaseous conditions, in standard jars, for organisms such as Campylobacter species which require a reduced oxygen atmosphere. They are disposable gas generating kits that produce hydrogen and carbon dioxide in sufficient quantity

***Générateurs de gaz,***
*les générateurs de gaz pour l'isolation de Campylobacter constituent une méthode appropriée pour la production de conditions gazeuses dans des jarres standard et qui nécessite une atmosphère à oxygène réduit (microaérophile)*



| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| Designed for 3.0-3.5 litre jars and is suitable for the Anaerobic Jar 2.541.000 and for many other jars currently in use in laboratories. When used as directed, each sachet will produce about 1,000 ml hydrogen and 350 ml carbon dioxide. Kit contains 10 sachets *Recommandé pour des jarres de 3.0 à 3.5 litres et en particulier pour la jarre 2.541.000 mais aussi pour d'autres jarres de laboratoire. Chaque sachet produit env. 1,000 ml H2 et 350 ml de $CO_2$. Kit de 10 sachet* | **2.542.000** |
| Designed for 2.5-3.0 litre jars and is for use with the small lightweight plastic anaerobic jar. When used as directed, each sachet will produce about 700 ml hydrogen and 250 ml carbon dioxide. Kit contains 10 sachets *Recommandé pour des jarres de 2.5 à 3.0 litres et est utilisé dans la petite jarre 2.540.000. un sachet produit env. 700 ml H2 et 250 ml $CO_2$. Kit de 10 sachets* | **2.542.100** |

**Atmosphere generation system,**
the $CO_2$Gen is designed for the generation of a carbon dioxide-rich atmosphere within a gas jar. The paper sachet contains ascorbic acid which reacts on contact with air to produce a level of approximately 6 % carbon dioxide within a 2.5 litre gas jar such as the Oxoid AnaeroJar 2.540.000.
Set of 10 sachets

***Système de génération en atmosphère,***
*le générateur CO2Gen est concu pour la génération de CO2 en riche atmosphère dans une jarre de 2,5 litres 2.540.000. Le sachet en papier contient de l'acide ascorbique. Kit de 10 sachets*

| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| Complete / *Complet* | **2.543.000** |

**CampyGen,**
each box contains:
10 CampyGen paper sachets which are individually foil packed.
The active component within each CampyGen sachet is ascorbic acid

***CampyGen,***
*le kit contient 10 sachets en papier de CampyGen sous emballage individuel.*
*Le composant actif de chaque sachet CampyGen est de l'acide ascorbique*




| **Type** *Type* | **Order No.** *N° de code* |
|---|---|
| designed for use in 2.5 litre jars / *pour jarre de 2,5 litre* | **2.544.000** |
| designed for use in 3.5 litre jars / *pour jarre de 3,5 litre* | **2.544.100** |




**Gas generation kit,**
the Gas Generating is a laminated foil envelope presented with an inner container holding tablets of sodium borohydride, sodium bicarbonate and tartaric acid. Contains 10 sachets

***Générateur de gaz,***
*kit de génération de gaz ($H_2$ et $CO_2$) pour produire une atmosphère anérobique. Kit de 10 sachets*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.545.000** |



**Gas generation kit,**
the Carbon-Dioxide Generating Kit is a reliable and convenient method for producing suitable conditions, in standard jars, for organisms requiring an enhanced CO2 atmosphere. Contains 10 sachets (10 % $CO_2$ in a 3.5 litre jar and approx. 14 % $CO_2$ in a 2,5 litre jar)

***Générateur de gaz,***
*kit de génération de gaz $CO_2$ pour la production d'une atmosphère riche en $CO_2$. (10 % $CO_2$ dans une jarre de 3.5 litres et env. 14 % $CO_2$ dans une jarre de 2,5 litres). Kit de 10 sachets*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.545.100** |

## Test tubes
## *Tubes à essais*

**Test tubes, with ST-PE-stopper,** with round bottom, ungraduated, made of borosilicate glass

***Tubes à essais, en verre borosilicaté à fond rond, non-gradués,*** *avec bouchon en polyéthylène à rodage normalisé*



**2.580.*****

| Outer Ø<br>*Ø ext.*<br>mm | Socket<br>*Cône femelle*<br>ST | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 13 | 12/21 | 100 | **2.580.000** |
| 15 | 12/21 | 165 | **2.580.001** |
| 17 | 14/23 | 200 | **2.580.002** |
| 17 | 14/23 | 220 | **2.580.003** |
| 19 | 14/23 | 220 | **2.580.004** |
| 20 | 19/26 | 150 | **2.580.008** |
| 25 | 24/29 | 150 | **2.580.009** |
| 25 | 24/29 | 200 | **2.580.010** |
| 16 | 14/23 | 100 | **2.580.116** |
| 16 | 14/23 | 125 | **2.580.125** |
| 17 | 14/23 | 180 | **2.580.160** |
| 16 | 14/23 | 160 | **2.580.168** |
| 16 | 14/23 | 180 | **2.580.188** |
| 16 | 14/23 | 210 | **2.580.210** |
| 16 | 14/23 | 235 | **2.580.235** |
| 12 | 10/19 | 100 | **2.580.510** |
| 16 | 14/15 | 125 | **2.580.525** |
| 20 | 19/17 | 150 | **2.580.550** |

**Test tubes, with ST-PE-stopper,** with round bottom, graduated, made of borosilicate glass

***Tubes à essais, en verre borosilicaté à fond rond, gradués,*** *avec bouchon en polyéthylène à rodage normalisé*

| Outer Ø<br>*Ø ext.*<br>mm | Socket<br>*Cône femelle*<br>ST | Length<br>*Longueur*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 13 | 12/21 | 100 | 5 : 0.01 | **2.582.000** |
| 15 | 12/21 | 165 | 10 : 0.1 | **2.582.001** |
| 17 | 14/23 | 200 | 20 : 0.2 | **2.582.002** |
| 17 | 14/23 | 220 | 25 : 0.2 | **2.582.003** |
| 17 | 14/23 | 220 | 25 : 0.5 | **2.582.004** |
| 19 | 14/23 | 220 | 30 : 0.5 | **2.582.005** |
| 17 | 14/23 | 180 | 10 : 0.1 | **2.582.160** |
| 16 | 14/23 | 210 | 20 : 0.2 | **2.582.210** |
| 16 | 14/23 | 235 | 25 : 0.2 | **2.582.235** |
| 12 | 10/19 | 100 | 5 : 0.1 | **2.582.510** |
| 16 | 14/15 | 125 | 10 : 0.2 | **2.582.525** |
| 20 | 19/17 | 150 | 25 : 0.5 | **2.582.550** |



**2.582.*****

**Test tubes,** heavy wall 1.2 - 1.4 mm wall thickness, culture tubes for bacterological purpose, with screw thread, complete with cap and seal, all parts sterilizable, with marking spot, made of Borosilicate glass

***Tubes à cultures en verre borosilicaté,*** *à paroie épaisse de 1.2 - 1.4 mm, utilisés en bactériologie, avec col fileté à bouchon à visser en PP avec joint d'étanchéité et entièrement autoclavables*

| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 100 x 13 | 13 | **2.583.000** |
| 100 x 16 | 15 | **2.583.001** |
| 150 x 20 | 18 | **2.583.006** |
| 125 x 16 | 15 | **2.583.011** |
| 150 x 16 | 15 | **2.583.022** |
| **Spare parts /** *Pièces de rechange* | | |
| Screw cap with seal GL 13<br>*Bouchon à visser en PP avec joint GL 13* | | **2.583.113** |
| Screw cap with seal GL 15<br>*Bouchon à visser en PP avec joint GL 15* | | **2.583.115** |




**2.583.*****

**Test tubes,** with screw-thread and screw cap, top closed, made of Polypropylene (PP), seal made of polyethylene, AR glass, autoclavable

***Tubes à essais à filetage*** *en verre de chimie, avec bouchon à visser en PP à joint en polyéthylène, autoclavables*

| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Screw thread<br>*Filetage*<br>GL | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 x 12 | 14 | 1 | **2.585.001** |
| 100 x 16 | 18 | 1 | **2.585.002** |
| 160 x 16 | 18 | 1 | **2.585.003** |
| 180 x 18 | 18 | 1 | **2.585.004** |
| **Spare parts /** *Pièces de rechange* | | | |
| Screw cap Gl 18<br>*Bouchon à visser, GL 18* | | | **2.583.118** |

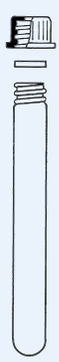


**2.585.*****

**Test tubes,** with screw-thread, with screw cap and PTFE seal, made of borosilicate glass

***Tubes à essais à filetage,*** *en verre borosilicaté, équipé d'un bouchon et d'un joint en PTFE*

| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 100 x 12 | 14 | **2.586.001** |
| 160 x 16 | 18 | **2.586.002** |
| 180 x 18 | 18 | **2.586.003** |



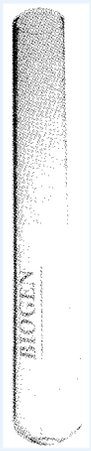
**2.586.*****



2.587.***



2.588.***




2.589.00*




2.589.1**




2.589.2**

**Test tubes,** ungraduated, with with ST-PE-stoppers, conical bottom, made of borosilicate glass

***Tubes à essais non-gradués,*** *en verre borosilicaté, à fond conique, avec bouchon en polyéthylène à rodage normalisé*

| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Socket<br>*Rodage femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 120 x 17 | 14/23 | **2.587.001** |
| 155 x 17 | 14/23 | **2.587.002** |

**Test tubes,** graduated, with ST-PE-stoppers, conical bottom, made of borosilicate glass

***Tubes à essais gradués,*** *en verre borosilicaté,à fond conique, avec bouchon en polyéthylène à rodage normalisé*

| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Socket<br>*Cône femelle*<br>ST | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 120 x 17 | 14/23 | 10 : 0.1 | **2.588.001** |
| 155 x 17 | 14/23 | 15 : 0.1 | **2.588.002** |

**Tissue culture tubes, acc. to Leighton,** extra long working area with short overall length, allowing easy entry and removal of cover slip, made of borosilicate glass

***Tubes à culture de tissus selon Leighton,*** *en verre borosilicaté, extra long*

| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Window size<br>*Dim. de la fenêtre*<br>mm | Cover slide size<br>*Dim. de la fermeture*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 85 x 16 | 11 x 55 | 10.5 x 22/35/50 | **2.589.001** |
| 95 x 18 | 14 x 55 | 13 x 27/54 x 37<br>18 x 37 | **2.589.002** |
| 110 x 28 | 22 x 77 | 18 x 75 | **2.589.003** |
| 150 x 38 | 27 x 78 | 25 x 75 | **2.589.004** |

**Tissue culture tubes, acc. to Leighton,** with screw cap, made of borosilicate glass

***Tubes à culture de tissus selon Leighton,*** *en verre borosilicaté, avec bouchon à vis*

| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Window size<br>*Dim. de la fenêtre*<br>mm | Cover slide size<br>*Dim. de la fermeture*<br>mm | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 93 x 16 | 11 x 55 | 9 x 22/35/50 | 18 | **2.589.101** |
| 105 x 18 | 14 x 55 | 10.5 x 22/35/50 | 18 | **2.589.102** |
| 120 x 28 | 22 x 77 | 18 x 37/75 | 32 | **2.589.103** |
| 150 x 35 | 27 x 78 | 25 x 75 | 32 | **2.589.104** |
| 125 x 16 | 11 x 37 | 10.5 x 22/35 | 18 | **2.589.301** |
| 150 x 16 | 11 x 37 | 10.5 x 22/35 | 18 | **2.589.302** |

**Tissue culture tubes, acc. to Leighton,** plain top, made of borosilicate glass

***Tubes à culture de tissus selon Leighton,*** *en verre borosilicaté*

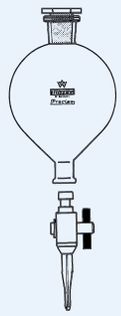
| Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Window size<br>*Dim. de la fenêtre*<br>mm | Cover slide size<br>*Dim. de la fermeture*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 125 x 16 | 11 x 37 | 10.5 x 22/35 | **2.589.201** |
| 150 x 16 | 11 x 37 | 10.5 x 22/35 | **2.589.202** |

## Separatory funnels
## *Ampoules à décanter*

**Separatory funnel, globe (ball) shaped, ungraduated,** with detachable PTFE-stopcock and ST-PE-stopper, made of borosilicate glass

***Ampoule à décanter, forme sphérique,*** *en verre borosilicaté, non-graduée, avec robinet en Téflon (PTFE) détachanbel et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie*<br>mm | Stem length<br>*Tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 19/26 | 2.5 | 100 | **2.620.050** |
| 100 | 19/26 | 2.5 | 100 | **2.620.100** |
| 250 | 29/32 | 2.5 | 100 | **2.620.250** |
| 500 | 29/32 | 2.5 | 100 | **2.620.500** |
| 1000 | 29/32 | 2.5 | 100 | **2.620.001** |

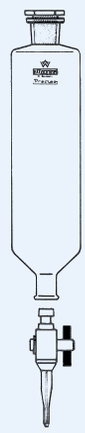


**2.620.*****

**Separatory funnel, cylindrical,** acc. to DIN 12566, ungraduated, with detachable PTFE-stopcock and ST-PE-stopper, made of borosilicate glass

***Ampoule à décanter,*** *forme cylindrique, en verre borosilicaté, non-graduée, avec robinet en Téflon (PTFE) détachable et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | bore of plug<br>*Voie*<br>mm | Stem length<br>*Tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 19/26 | 2.5 | 100 | **2.622.050** |
| 100 | 19/26 | 2.5 | 100 | **2.622.100** |
| 250 | 29/32 | 2.5 | 100 | **2.622.250** |
| 500 | 29/32 | 2.5 | 100 | **2.622.500** |
| 1000 | 29/32 | 2.5 | 100 | **2.622.001** |



**2.622.*****

**Separatory funnel, cylindrical,** acc. to DIN 12566, graduated, with detachable PTFE-stopcock and ST-PE-stopper, made of borosilicate glass

***Ampoule à décanter, forme cylindrique,*** *en verre borosilicaté, graduée, avec robinet en Téflon (PTFE) détachable et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | bore of plug<br>*Voie*<br>mm | Stem length<br>*Tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 : 1 | 19/26 | 2.5 | 100 | **2.624.050** |
| 100 : 2 | 19/26 | 2.5 | 100 | **2.624.100** |
| 250 : 5 | 29/32 | 2.5 | 100 | **2.624.250** |
| 500 : 10 | 29/32 | 2.5 | 100 | **2.624.500** |
| 1000 : 20 | 29/32 | 2.5 | 100 | **2.624.001** |

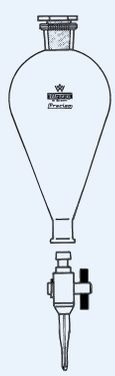


**2.624.*****

**Separatory funnel, Squibb,** ungraduated, with detachable PTFE-stopcock and ST-PE-stopper, made of borosilicate glass

***Ampoule à brome de Squibb, en forme de poire,*** *en verre borosilicaté, non-graduée, avec robinet en Téflon (PTFE) détachable et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | bore of plug<br>*Voie*<br>mm | Stem length<br>*Tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 19/26 | 2.5 | 100 | **2.626.050** |
| 100 | 19/26 | 2.5 | 100 | **2.626.100** |
| 250 | 29/32 | 2.5 | 100 | **2.626.250** |
| 500 | 29/32 | 2.5 | 100 | **2.626.500** |
| 1000 | 29/32 | 2.5 | 100 | **2.626.001** |



**2.626.*****



**2.628.*** - 2.634.***

**Separatory funnel, cylindrical,** graduated, with detachable PTFE-stopcock and ST-joint part, with ST-PE-stopper, made of borosilicate glass

***Ampoule à décanter, forme cylindrique,*** *en verre borosilicaté, graduée, avec robinet en Téflon (PTFE) détachable et bouchon en polyéthylène à RN*

| **Capacity** *Capacité* ml | **Cone / Socket** *Cône mâle / femelle* ST | **bore of plug** *Voie* mm | **Joint part length** *Tige* mm | **Order No.** *N° de code* |
|---|---|---|---|---|
| 25 : 0.5 | 14/23 - 14/23 | 2.5 | 100 | **2.628.025** |
| 50 : 1 | 14/23 - 14/23 | 2.5 | 100 | **2.628.050** |
| 100 : 2 | 14/23 - 14/23 | 2.5 | 100 | **2.628.100** |
| 250 : 5 | 14/23 - 14/23 | 2.5 | 100 | **2.628.250** |
| 50 : 1 | 19/26 - 19/26 | 2.5 | 100 | **2.630.050** |
| 100 : 2 | 19/26 - 19/26 | 2.5 | 100 | **2.630.100** |
| 250 : 5 | 19/26 - 19/26 | 2.5 | 100 | **2.630.250** |
| 500 : 10 | 19/26 - 19/26 | 2.5 | 100 | **2.630.500** |
| 50 : 1 | 24/29 - 24/29 | 2.5 | 100 | **2.632.050** |
| 100 : 2 | 24/29 - 24/29 | 2.5 | 100 | **2.632.100** |
| 250 : 5 | 24/29 - 24/29 | 2.5 | 100 | **2.632.250** |
| 500 : 10 | 24/29 - 24/29 | 2.5 | 100 | **2.632.500** |
| 1000 : 20 | 24/29 - 24/29 | 2.5 | 100 | **2.632.001** |
| 50 : 1 | 29/32 - 29/32 | 2.5 | 100 | **2.634.050** |
| 100 : 2 | 29/32 - 29/32 | 2.5 | 100 | **2.634.100** |
| 250 : 5 | 29/32 - 29/32 | 2.5 | 100 | **2.634.250** |
| 500 : 10 | 29/32 - 29/32 | 2.5 | 100 | **2.634.500** |
| 1000 : 20 | 29/32 - 29/32 | 2.5 | 100 | **2.634.001** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Separate PTFE-stopcock, detachable, bore of plug 2.5 mm<br>*Robinet en PTFE détachable, voie de 2,5 mm* | **2.635.001** |
| Separate cone for dropping funnel, ST 14/23<br>*Cône pour ampoule, RN 14/23* | **2.635.002** |
| Separate cone for dropping funnel, ST 19/26<br>*Cône pour ampoule, RN 19/26* | **2.635.003** |
| Separate cone for dropping funnel, ST 24/29<br>*Cône pour ampoule, RN 24/29* | **2.635.004** |
| Separate cone for dropping funnel, ST 29/32<br>*Cône pour ampoule, RN 29/32* | **2.635.005** |
| Separate stem for dropping funnel, 200 mm<br>*Pointe pour ampoule, 200 mm* | **2.635.006** |
| Separate stem for dropping funnel, 100 mm<br>*Pointe pour ampoule, 100 mm* | **2.635.007** |

**Multi-Level removal funnel, (Separator) Squibb,** with PTFE-outlet valve, permits rapid and selective withdrawal of single or multiple solvent layers, also take-off interface layer possible, made of borosilicate glass

***Ampoule à décanter de Squibb (Séparateur) à filetage, en forme de poire,*** *en verre borosilicaté, avec vanne en Téflon (PTFE) et bouchon en polyéthylène à RN. Recommandé pour la sélectivité de couches simples ou multiples de solvents*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Screw-thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 19/26 | 32 | **2.636.100** |
| 250 | 29/32 | 32 | **2.636.250** |
| 500 | 29/32 | 32 | **2.636.500** |
| 1000 | 29/32 | 45 | **2.636.001** |
| 2000 | 29/32 | 45 | **2.636.002** |
| 4000 | 45/40 | 45 | **2.636.004** |
| 6000 | 45/40 | 45 | **2.636.006** |
| 10000 | 45/40 | 45 | **2.636.010** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Glass parts, without PTFE-valve, 100 ml, ST 19/26, GL 32<br>*Parties en verre, sans vanne, 100 ml, RN 19/26, GL32* | **2.636.110** |
| Glass parts, without PTFE-valve, 250 ml, ST 29/32, GL 32<br>*Parties en verre, sans vanne, 250 ml, RN 29/32, GL32* | **2.636.125** |
| Glass parts, without PTFE-valve, 500 ml, ST 29/32, GL 32<br>*Parties en verre, sans vanne, 500 ml, RN 29/32, GL32* | **2.636.150** |
| Glass parts, without PTFE-valve, 1000 ml, ST 29/32, GL 45<br>*Parties en verre, sans vanne, 1000 ml, RN 29/32, GL45* | **2.636.101** |
| Glass parts, without PTFE-valve, 2000 ml, ST 29/32, GL 45<br>*Parties en verre, sans vanne, 2000 ml, RN 29/32, GL45* | **2.636.102** |
| Glass parts, without PTFE-valve, 4000 ml, ST 45/40, GL 45<br>*Parties en verre, sans vanne, 4000 ml, RN 45/40, GL45* | **2.636.104** |
| Glass parts, without PTFE-valve, 6000 ml, ST 45/40, GL 45<br>*Parties en verre, sans vanne, 6000 ml, RN 45/40, GL45* | **2.636.106** |
| Glass parts, without PTFE-valve, 10000 ml, ST 45/40, GL 45<br>*Parties en verre, sans vanne, 10000 ml, RN 45/40, GL45* | **2.636.110** |
| Outlet valve (PTFE) for capacities 100 - 1000 ml<br>*Vanne en PTFE pour volumes de 100-1000 ml* | **2.636.200** |
| Outlet valve (PTFE) for capacities 2000 - 10000 ml<br>*Vanne en PTFE pour volumes de 200-10000 ml* | **2.636.300** |
| Screw cap GL 32 / *Bouchon à visser GL32* | **0.176.032** |
| Screw cap GL 45 / *Bouchon à visser GL45* | **0.176.045** |

**Separatory funnels, globe shaped,** ungraduated, with solid ST-stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter à forme sphérique,*** *non-graudue, en verre borosilicaté avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.640.050** |
| 100 | 19/26 | 2.5 | **2.640.100** |
| 250 | 29/32 | 2.5 | **2.640.250** |
| 500 | 29/32 | 2.5 | **2.640.500** |
| 1000 | 29/32 | 4.0 | **2.640.001** |
| 2000 | 29/32 | 6.3 | **2.640.002** |

**Separatory funnels, Gilson,** with solid ST-stopcock plugs and ST polyethylene stoppers, made of borosilicate glass

***Ampoule à décanter de Gilson, à forme sphérique,*** *non-graudue, en verre borosilicaté avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.642.050** |
| 100 | 19/26 | 2.5 | **2.642.100** |
| 250 | 29/32 | 2.5 | **2.642.250** |
| 500 | 29/32 | 2.5 | **2.642.500** |
| 1000 | 29/32 | 4.0 | **2.642.001** |
| 2000 | 29/32 | 6.3 | **2.642.002** |



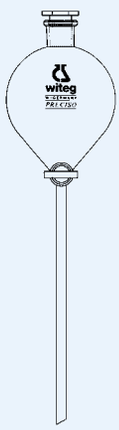
**2.636.1****



**2.636.4****



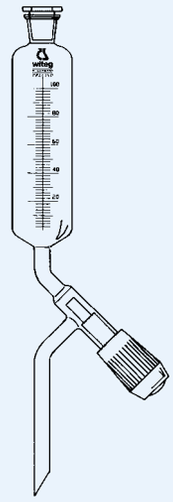
**2.636.200**
**-**
**2.636.300**




**2.640.***



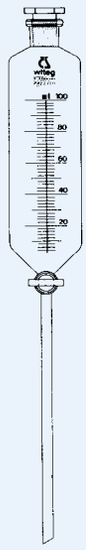
**2.642.***



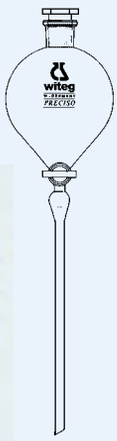
2.643.***



2.644.***



2.645.***



2.646.***



2.647.***



2.647.*** BR

**Separatory funnels, cylindrical,** graduated, with Witaflo-needle valve stopcock with PTFE-needle valve, red, made of Borosilicate glass

***Ampoule à décanter graduée, forme cylindrique,*** *en verre borosilicaté, avec vanne à aiguille Witaflo en Téflon (PTFE)*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 3.0 | **2.643.050** |
| 100 | 19/26 | 3.0 | **2.643.100** |
| 250 | 29/32 | 3.0 | **2.643.250** |
| 500 | 29/32 | 6.0 | **2.643.500** |
| 1000 | 29/32 | 6.0 | **2.643.001** |
| 2000 | 29/32 | 6.0 | **2.643.002** |

**Separatory funnels, cylindrical, ungraduated,** with solid ST-stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter non-graduée, forme cylindrique,*** *en verre borosilicaté, avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.644.050** |
| 100 | 19/26 | 2.5 | **2.644.100** |
| 250 | 29/32 | 2.5 | **2.644.250** |
| 500 | 29/32 | 2.5 | **2.644.500** |
| 1000 | 29/32 | 4.0 | **2.644.001** |
| 2000 | 29/32 | 6.3 | **2.644.002** |

**Separatory funnels, cylindrical,** graduated, with solid ST-stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter graduée, forme cylindrique,*** *en verre borosilicaté, avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 : 1 | 19/26 | 2.5 | **2.645.050** |
| 100 : 2 | 19/26 | 2.5 | **2.645.100** |
| 250 : 5 | 29/32 | 2.5 | **2.645.250** |
| 500 : 10 | 29/32 | 2.5 | **2.645.500** |
| 1000 : 20 | 29/32 | 4.0 | **2.645.001** |
| 2000 :50 | 29/32 | 6.3 | **2.645.002** |

**Separatory funnels, Walter,** ungraduated, with solid ST-stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter non-graduée de Walther, forme sphérique,*** *en verre borosilicaté, avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.646.050** |
| 100 | 19/26 | 2.5 | **2.646.100** |
| 250 | 29/32 | 2.5 | **2.646.250** |
| 500 | 29/32 | 2.5 | **2.646.500** |
| 1000 | 29/32 | 4.0 | **2.646.001** |
| 2000 | 29/32 | 6.3 | **2.646.002** |

**Separatory funnels, Squibb,** ungraduated, with solid ST-stopcock plugs and ST-PE-stoppers, made of clear borosilicate glass or also amberized available

***Ampoule à brome de Squibb, non-graduée, forme conique,*** *en verre borosilicaté clair ou verre brun avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code*<br>Amber / *brun* | Order No.<br>*N° de code*<br>Clear / *clair* |
|---|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.647.050 BR** | **2.647.050** |
| 100 | 19/26 | 2.5 | **2.647.100 BR** | **2.647.100** |
| 250 | 29/32 | 2.5 | **2.647.250 BR** | **2.647.250** |
| 500 | 29/32 | 2.5 | **2.647.500 BR** | **2.647.500** |
| 1000 | 29/32 | 4.0 | **2.647.001 BR** | **2.647.001** |
| 2000 | 29/32 | 6.3 | **2.647.002 BR** | **2.647.002** |

**Separatory funnels, Squibb,** graduated, with solid ST-stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à brome de Squibb, graduée, forme conique,*** *en verre borosilicaté avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.648.050** |
| 100 | 19/26 | 2.5 | **2.648.100** |
| 250 | 29/32 | 2.5 | **2.648.250** |
| 500 | 29/32 | 2.5 | **2.648.500** |
| 1000 | 29/32 | 4.0 | **2.648.001** |
| 2000 | 29/32 | 6.3 | **2.648.002** |

**Separatory funnels, Squibb**, graduated, with Economy-needle valve stopcock with PTFE-needle valve, made of borosilicate glass

***Ampoule à brome de Squibb, graduée, forme conique,*** *en verre borosilicaté avec vanne à aiguille en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 3.0 | **2.649.105** |
| 100 | 19/26 | 3.0 | **2.649.110** |
| 250 | 29/32 | 3.0 | **2.649.125** |
| 500 | 29/32 | 6.0 | **2.649.150** |
| 1000 | 29/32 | 6.0 | **2.649.200** |
| 2000 | 29/32 | 6.0 | **2.649.300** |

**Separatory funnels, globe shaped,** with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter, forme sphérique,*** *en verre borosilicaté avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.650.050** |
| 100 | 19/26 | 2.5 | **2.650.100** |
| 250 | 29/32 | 2.5 | **2.650.250** |
| 500 | 29/32 | 2.5 | **2.650.500** |
| 1000 | 29/32 | 4.0 | **2.650.001** |
| 2000 | 29/32 | 6.3 | **2.650.002** |

**Separatory funnels, Gilson,** ungraduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

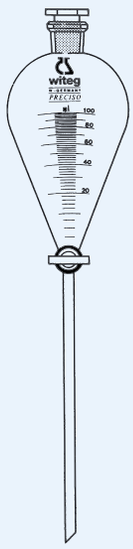
***Ampoule à décanter de Gilson, à forme sphérique,*** *en verre borosilicaté avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.652.050** |
| 100 | 19/26 | 2.5 | **2.652.100** |
| 250 | 29/32 | 2.5 | **2.652.250** |
| 500 | 29/32 | 2.5 | **2.652.500** |
| 1000 | 29/32 | 4.0 | **2.652.001** |
| 2000 | 29/32 | 6.3 | **2.652.002** |

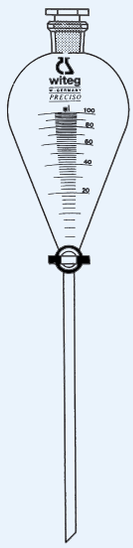
**Separatory funnels, cylindrical,** ungraduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter non-graduée, forme cylindrique,*** *en verre borosilicaté, avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

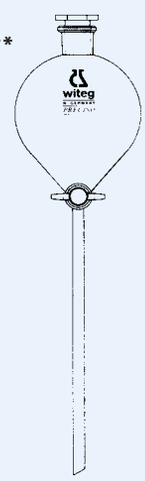
| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.654.050** |
| 100 | 19/26 | 2.5 | **2.654.100** |
| 250 | 29/32 | 2.5 | **2.654.250** |
| 500 | 29/32 | 2.5 | **2.654.500** |
| 1000 | 29/32 | 4.0 | **2.654.001** |
| 2000 | 29/32 | 6.3 | **2.654.002** |



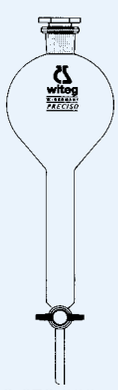

**2.648.*****




**2.649.*****



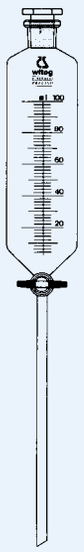

**2.650.*****




**2.652.*****




**2.654.*****

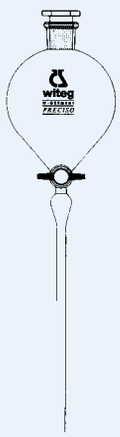


2.655.***

**Separatory funnels, cylindrical,** graduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter graduée, forme cylindrique,*** *en verre borosilicaté, avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 : 1 | 19/26 | 2.5 | **2.655.050** |
| 100 : 2 | 19/26 | 2.5 | **2.655.100** |
| 250 : 5 | 29/32 | 2.5 | **2.655.250** |
| 500 : 10 | 29/32 | 2.5 | **2.655.500** |
| 1000 : 20 | 29/32 | 4.0 | **2.655.001** |
| 2000 : 50 | 29/32 | 6.3 | **2.655.002** |



2.656.***

**Separatory funnels, Walter,** ungraduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter non-graduée de Walther, forme sphérique,*** *en verre borosilicaté, avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.656.050** |
| 100 | 19/26 | 2.5 | **2.656.100** |
| 250 | 29/32 | 2.5 | **2.656.250** |
| 500 | 29/32 | 2.5 | **2.656.500** |
| 1000 | 29/32 | 4.0 | **2.656.001** |
| 2000 | 29/32 | 6.3 | **2.656.002** |



2.658.***

**Separatory funnels, Squibb,** ungraduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à brome de Squibb, non-graduée, forme conique,*** *en verre borosilicaté avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.658.050** |
| 100 | 19/26 | 2.5 | **2.658.100** |
| 250 | 29/32 | 2.5 | **2.658.250** |
| 500 | 29/32 | 2.5 | **2.658.500** |
| 1000 | 29/32 | 4.0 | **2.658.001** |
| 2000 | 29/32 | 6.3 | **2.658.002** |

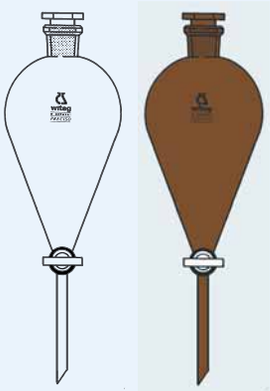


2.659.***

**Separatory funnels, Squibb,** graduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à brome de Squibb, graduée, forme conique,*** *en verre borosilicaté avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.659.050** |
| 100 | 19/26 | 2.5 | **2.659.100** |
| 250 | 29/32 | 2.5 | **2.659.250** |
| 500 | 29/32 | 2.5 | **2.659.500** |
| 1000 | 29/32 | 4.0 | **2.659.001** |
| 2000 | 29/32 | 6.3 | **2.659.002** |



2.671.*** 2.671.*** BR

**Separatory funnels, conical shape,** acc. to DIN ISO 4800, ungraduated, with solid ST-stopcock plugs and ST-PE-stoppers, made of clear borosilicate glass or also amberized available

***Ampoule à décanter, non-graduée, forme conique,*** *en verre borosilicaté clair ou verre brun avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code*<br>Amber / *brun* | Order No.<br>*N° de code*<br>Clear / *clair* |
|---|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.671.050 BR** | **2.671.050** |
| 100 | 19/26 | 2.5 | **2.671.100 BR** | **2.671.100** |
| 250 | 29/32 | 2.5 | **2.671.250 BR** | **2.671.250** |
| 500 | 29/32 | 2.5 | **2.671.500 BR** | **2.671.500** |
| 1000 | 29/32 | 4.0 | **2.671.001 BR** | **2.671.001** |
| 2000 | 29/32 | 6.3 | **2.671.002 BR** | **2.671.002** |

**Separatory funnels, conical shape,**
acc. to DIN ISO 4800, graduated, with solid ST-stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter, graduée, forme conique,*** *en verre borosilicaté avec robinet à clé en verre et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.672.050** |
| 100 | 19/26 | 2.5 | **2.672.100** |
| 250 | 29/32 | 4.0 | **2.672.250** |
| 500 | 29/32 | 4.0 | **2.672.500** |
| 1000 | 29/32 | 6.3 | **2.672.001** |
| 2000 | 29/32 | 6.3 | **2.672.002** |



**2.672.*****

**Separatory funnels, conical shape,**
acc. to DIN ISO 4800, ungraduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter , non-graduée, forme conique,*** *en verre borosilicaté avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.673.050** |
| 100 | 19/26 | 2.5 | **2.673.100** |
| 250 | 29/32 | 4.0 | **2.673.250** |
| 500 | 29/32 | 4.0 | **2.673.500** |
| 1000 | 29/32 | 6.3 | **2.673.001** |
| 2000 | 29/32 | 6.3 | **2.673.002** |



**2.673.*****

**Separatory funnels, conical shape,**
acc. to DIN ISO 4800, graduated, with ST-PTFE stopcock plugs and ST-PE-stoppers, made of borosilicate glass

***Ampoule à décanter , graduée, forme conique,*** *en verre borosilicaté avec robinet à clé en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 2.5 | **2.674.050** |
| 100 | 19/26 | 2.5 | **2.674.100** |
| 250 | 29/32 | 4.0 | **2.674.250** |
| 500 | 29/32 | 4.0 | **2.674.500** |
| 1000 | 29/32 | 6.3 | **2.674.001** |
| 2000 | 29/32 | 6.3 | **2.674.002** |

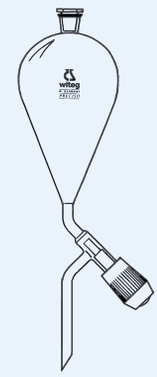


**2.674.*****

**Separatory funnels, conical shape,**
ungraduated, with Witaflo-needle valve stopcock with PTFE-needle valve, made of borosilicate glass

***Ampoule à décanter, non-graduée, forme conique,*** *en verre borosilicaté avec vanne à aiguille Witaflo en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 3.0 | **2.675.050** |
| 100 | 19/26 | 3.0 | **2.675.100** |
| 250 | 29/32 | 3.0 | **2.675.250** |
| 500 | 29/32 | 6.0 | **2.675.500** |
| 1000 | 29/32 | 6.0 | **2.675.001** |
| 2000 | 29/32 | 6.0 | **2.675.002** |

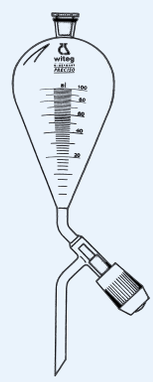


**2.675.*****

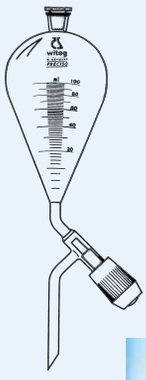
**Separatory funnels, conical shape,**
graduated, with Witaflo-needle valve stopcock with PTFE-needle valve, made of borosilicate glass

***Ampoule à décanter, graduée, forme conique,*** *en verre borosilicaté avec vanne à aiguille Witaflo en Téflon (PTFE) et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 19/26 | 3.0 | **2.676.050** |
| 100 | 19/26 | 3.0 | **2.676.100** |
| 250 | 29/32 | 3.0 | **2.676.250** |
| 500 | 29/32 | 6.0 | **2.676.500** |
| 1000 | 29/32 | 6.0 | **2.676.001** |
| 2000 | 29/32 | 6.0 | **2.676.002** |



**2.676.*****



2.677.***

**Separatory funnels, conical shape,** graduated, with Economy-needle valve stopcock with PTFE-needle valve, with screw-thread and cap, made of borosilicate glass

***Ampoule à décanter, graduée, forme conique,*** *en verre borosilicaté avec vanne à aiguille simple en Téflon (PTFE) avec bague de fixation et bouchon en polyéthylène à RN*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Taille*<br>GL | Bore of plug<br>*Voie de la clé*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 25 | 3.0 | **2.677.005** |
| 100 | 25 | 3.0 | **2.677.010** |
| 250 | 32 | 3.0 | **2.677.025** |
| 500 | 32 | 6.0 | **2.677.050** |
| 1000 | 32 | 6.0 | **2.677.100** |
| 2000 | 45 | 6.0 | **2.677.200** |



2.680.***

**Extraction funnels for shakers,** with PTFE-needle valve, with filler pipe GL 45, center neck GL 45, made of borosilicate glass

***Ampoule d'extraction pour agitateurs,*** *en verre borosilicaté avec vanne à aiguille en Téflon (PTFE) et tube de remplissage avec filetages et bouchons en PP GL45*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 1000 | **2.680.101** |
| 2000 | **2.680.102** |



2.685.***

**Funnels, constant addition, cylindrical,** graduated, with PTFE dosing closing valve, inserted Mariotte tube, thread GL 45 complete with screw cap and gasket made of borosilicate glass

***Entonnoir à ajout constant, forme cylindrique graduée,*** *en verre borosilicaté avec vanne de dosage et de fermeture en Téflon (PTFE) et tube de Mariotte*

| Capacity<br>*Capacité*<br>ml | Cone / Socket<br>*Cône mâle / femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 50 : 1 | 14/23 | **2.685.005** |
| 100 : 2 | 14/23 | **2.685.010** |
| 250 : 5 | 14/23 | **2.685.025** |
| 50 : 1 | 29/32 | **2.685.050** |
| 100 : 2 | 29/32 | **2.685.100** |
| 250 : 5 | 29/32 | **2.685.250** |
| 500 : 10 | 29/32 | **2.685.500** |
| 1000 : 20 | 29/32 | **2.685.001** |
| 2000 : 50 | 29/32 | **2.685.002** |



2.686.***

**Funnels, constant addition, cylindrical,** graduated, with heating and cooling jacket, with PTFE dosing valve, inserted Mariotte tube, thread GL 45 complete with screw cap and gasket made of borosilicate glass

***Entonnoir à ajout constant, forme cylindrique graduée,*** *en verre borosilicaté avec manteau de refoidissement ou de chauffage, vanne de dosage et de fermeture en Téflon (PTFE) et tube de Mariotte*

| Capacity<br>*Capacité*<br>ml | Cone / Socket<br>*Cône mâle / femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 50 : 1 | 14/23 | **2.686.005** |
| 100 : 2 | 14/23 | **2.686.010** |
| 250 : 5 | 14/23 | **2.686.025** |
| 50 : 1 | 29/32 | **2.686.050** |
| 100 : 2 | 29/32 | **2.686.100** |
| 250 : 5 | 29/32 | **2.686.250** |
| 500 : 10 | 29/32 | **2.686.500** |
| 1000 : 20 | 29/32 | **2.686.001** |
| 2000 : 50 | 29/32 | **2.686.002** |

**Funnels, constant addition, cylindrical,** graduated, with pressure equalizing tube, with PTFE dosing closing valve, inserted Mariotte tube, thread GL 45 complete with screw cap and gasket made of borosilicate glass **(also available with heating and cooling jacket)**

***Entonnoir à ajout constant, forme cylindrique graduée à tubulure,*** *en verre borosilicaté avec vanne de dosage et de fermeture en Téflon (PTFE) et tube de Mariotte, complet avec bouchon de serrage à filetage GL 45. Disponible également avec manteau de chauffage et de refroidissement*

| Capacity<br>*Capacité*<br>ml | Cone / Socket<br>*Cône mâle / femelle*<br>ST | Without heating and cooling jacket<br>*Sans manteau de refoidissement ou de chauffage* | With heating and cooling jacket<br>*Avec manteau de refoidissement ou de chauffage* |
|---|---|---|---|
| 50 : 1 | 14/23 | **2.687.005** | **2.688.005** |
| 100 : 2 | 14/23 | **2.687.010** | **2.688.010** |
| 250 : 5 | 14/23 | **2.687.025** | **2.688.025** |
| 50 : 1 | 29/32 | **2.687.050** | **2.688.050** |
| 100 : 2 | 29/32 | **2.687.100** | **2.688.100** |
| 250 : 5 | 29/32 | **2.687.250** | **2.688.250** |
| 500 : 10 | 29/32 | **2.687.500** | **2.688.500** |
| 1000 : 20 | 29/32 | **2.687.001** | **2.688.001** |
| 2000 : 50 | 29/32 | **2.687.002** | **2.688.002** |



**2.687.*****

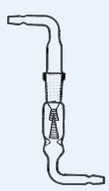


**2.688.*****

**Safety valve, Friedrichs-Antlinger,** with interchangeable valve piston of plastic, ditachable, ST 14/23

***Vanne de sécurité selon Friedrich-Antlinger,*** *en verre borosilicaté, démontable, à piston de vanne en plastique interchangeable, à RN 14/23*

| Order No.<br>*N° de code* |
|---|
| **2.689.000** |



**2.689.000**

**Safety valve, acc. to Friedrichs-Antlinger** small pattern, made of borosilicate glass

***Vanne de sécurité selon Friedrich-Antlinger,*** *en verre borosilicaté*

| Order No.<br>*N° de code* |
|---|
| **2.689.100** |



**2.689.100**

**Pressure relief valves / Non return valves** with adjustable spring pressure (max. pressure 0.1 bar) usable also as non return valve (optional with stopcock, bore 3.0 mm)

***Vannes à pression et anti-retour,*** *avec ressort de régulation de pression (max. 0.1 bar) utilisée également en tant que vanne anti-retour. Disponible aussi avec robinet à voie de 3.0 mm*

| Cone<br>*Cône mâle*<br>ST | Without stopcock<br>*Sans robinet* | With stopcock<br>*Avec robinet* |
|---|---|---|
| 14.5/23 | **2.689.214** | **2.689.314** |
| 19/26 | **2.689.219** | **2.689.319** |
| 29/32 | **2.689.229** | **2.689.329** |
| 45/40 | **2.689.245** | **2.689.345** |



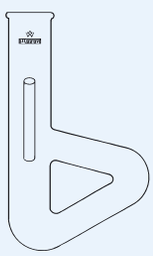
**2.689.3****

## Melting point apparatus
## *Appareils pour point de fusion*

**Melting point apparatus, Thiele,** with side arms, made of borosilicate glass

***Appareil pour point de fusion Thiele,*** *en verre borosilicaté avec branches sur les extrémités*

| Order No.<br>*N° de code* |
|---|
| **2.690.000** |

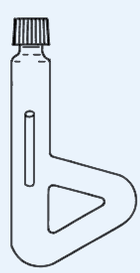


**2.690.*****

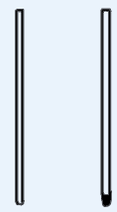
**Melting point apparatus, Thiele,** with screw cap GL 18 and seal, 16 x 6 mm, with side arms, made of borosilicate glass

***Appareil pour point de fusion Thiele,*** *en verre borosilicaté avec branches sur les extrémités et bouchon à visser en PP GL 18*

| | Order No.<br>*N° de code* |
|---|---|
| Complete | **2.691.000** |



**2.691.*****



**2.700.*** - 2.702.*****

**Melting point tubes,** length 80mm, outer Ø 1.35 mm, both ends open, made of borosilicate glass, packed 100 pieces

***Tubes capillaires pour point de fusion,*** *longueur 80 mm, dia. ext. 1.35 mm, extrémités ouvertes, en verre borosilicaté, en emballage de 100*

| | Order No.<br>*N° de code* |
|---|---|
| | **2.700.000** |

**Melting point tubes,** length 80mm, outer Ø 1.35 mm, one end sealed, made of borosilicate glass, packed 100 pieces

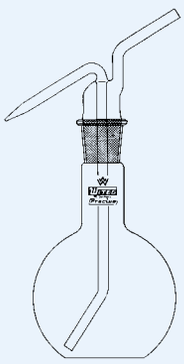
***Tubes capillaires pour point de fusion,*** *longueur 80 mm, dia. ext. 1.35 mm, une extrémité scellée, en verre borosilicaté, en emballage de 100*

| | Order No.<br>*N° de code* |
|---|---|
| | **2.702.000** |

## Wash bottles
## *Pissettes*

**Wash bottles,** complete, made of clear borosilicate glass

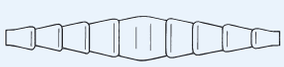
***Pissette*** *en verre clair borosilicaté, complète*



**2.720.*****

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodagefemelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 29/32 | **2.720.250** |
| 500 | 29/32 | **2.720.500** |
| 1000 | 29/32 | **2.720.001** |
| **Spare parts /** *Pièces de rechange* | | |
| Flask, 250 ml, ST 29/32, flat bottom, center neck<br>*Ballon à fond plat, 250 ml, RN 29/32* | | **0.614.250** |
| Flask, 500 ml, ST 29/32, flat bottom, center neck<br>*Ballon à fond plat, 500 ml, RN 29/32* | | **0.614.500** |
| Flask, 1000 ml, ST 29/32, flat bottom, center neck<br>*Ballon à fond plat, 1000 ml, RN 29/32* | | **0.614.001** |
| Still head for washing bottles 250 ml<br>*Tête pour ballon de 250 ml* | | **2.722.250** |
| Still head for washing bottles 500 ml<br>*Tête pour ballon de 500 ml* | | **2.722.500** |
| Still head for washing bottles 1000 ml<br>*Tête pour ballon de 1000 ml* | | **2.722.001** |

## Tubing connectors
## *Raccords*

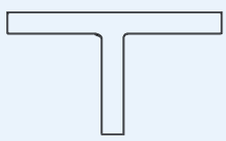


**2.860.*****

**Tubing connector,** serrated ends, from 6 to 18 mm, side arms length 120 mm, made of borosilicate glass

***Raccord-réducteur à olives*** *en verre borosilicaté, pour tubes de 6 à 18 mm de dia., longueur totale 120 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **2.860.000** |



**2.862.*****

**T-connection tubes,** with plain ends, made of borosilicate glass

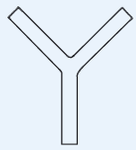
***Raccord en forme de T,*** *en verre borosilicaté, à 3 branches lisses*

| Outer Ø<br>*Ø ext.*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 | 40 | **2.862.001** |
| 8 | 45 | **2.862.002** |
| 10 | 50 | **2.862.003** |

**Y-connection tubes,** with plain ends, made of borosilicate glass

***Raccord en forme de Y,*** *en verre borosilicaté, à 3 branches lisses*

| Outer Ø<br>*Ø ext.*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 | 40 | **2.862.011** |
| 8 | 45 | **2.862.012** |
| 10 | 50 | **2.862.013** |



**2.862.01***

**U-connection tubes,** with plain ends, made of borosilicate glass

***Raccord en forme de U,*** *en verre borosilicaté, à 3 branches lisses*

| Outer Ø<br>*Ø ext.*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 | 40 | **2.862.021** |
| 8 | 45 | **2.862.022** |
| 10 | 50 | **2.862.023** |

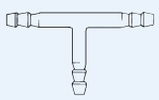


**2.862.02***

**T-connection tubes.** with serrated ends, made of borosilicate glass

***Raccord en forme de T à olives,*** *en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 | 40 | **2.864.001** |
| 8 | 45 | **2.864.002** |
| 10 | 50 | **2.864.003** |

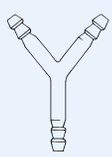


**2.864.00***

**Y-connection tubes,** with serrated ends, made of borosilicate glass

***Raccord en forme de Y à olives,*** *en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 | 40 | **2.864.011** |
| 8 | 45 | **2.864.012** |
| 10 | 50 | **2.864.013** |



**2.864.01***

**U-connection tubes,** with serrated ends, made of borosilicate glass

***Raccord en forme de U à olives,*** *en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Side arms length<br>*Long. de branche*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 | 40 | **2.864.021** |
| 8 | 45 | **2.864.022** |
| 10 | 50 | **2.864.023** |



**2.864.02***

**Connection tubes, straight,** with serrated ends, made of borosilicate glass

***Raccord droit à olives,*** *en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 6 | 115 | 1.5 | **2.865.001** |
| 8 | 115 | 1.5 | **2.865.002** |
| 9 | 115 | 1.5 | **2.865.003** |
| 10 | 115 | 1.5 | **2.865.004** |
| 11 | 115 | 1.5 | **2.865.005** |



**2.865.***

**Connection tubes, straight,** with serrated ends, made of Soda-lime glass

***Raccord droit à olives,*** *en verre de chimie*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 6 | 115 | 1.5 | **2.866.001** |
| 8 | 115 | 1.5 | **2.866.002** |
| 11 | 115 | 1.5 | **2.866.003** |



**2.866.***



**2.868.*****

**Barometer tube,** one side closed, made of borosilicate glass

***Tube barométrique,*** *en verre borosilicaté avec une extrémité fermée*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 8 | 500 | **2.868.000** |

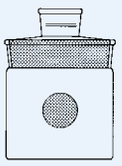


**2.870.*****

**Weighing bottles, tall form,** made of borosilicate glass with ST-cover with knob and permanent graduation and measures.

***Vases à tare forme haute,***
*en verre borosilicaté avec couvercle rodé à bouton*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 40 | 25 | **2.870.005** |
| 15 | 40 | 30 | **2.870.006** |
| 20 | 50 | 30 | **2.870.007** |
| 30 | 50 | 35 | **2.870.008** |
| 40 | 50 | 40 | **2.870.009** |
| 45 | 60 | 40 | **2.870.010** |
| 45 | 65 | 40 | **2.870.011** |
| 45 | 70 | 35 | **2.870.012** |
| 70 | 80 | 40 | **2.870.013** |
| 120 | 80 | 50 | **2.870.014** |



**2.872.*****

**Weighing bottles, low form,** made of borosilicate glass with ST-cover with knob and permanent graduation and measures.

***Vases à tare forme basse,***
*en verre borosilicaté avec couvercle rodé à bouton*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 6 | 25 | 25 | **2.872.001** |
| 15 | 25 | 40 | **2.872.002** |
| 15 | 30 | 30 | **2.872.003** |
| 15 | 30 | 35 | **2.872.004** |
| 30 | 30 | 50 | **2.872.005** |
| 45 | 30 | 60 | **2.872.006** |
| 80 | 30 | 80 | **2.872.008** |
| 35 | 40 | 40 | **2.872.009** |

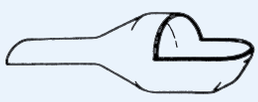


**2.873.*****

**Plane weighing glass, acc. to Heidbrink,** for all weighings in which there is an advantage when the sample is divided in thin layers

***Verre de pesée plan selon Heidbrink,*** *pour tous les pesages en particulier lorsque l'échantillon est divisé en couches minces.*

| Order No.<br>*N° de code* |
|---|
| **2.873.902** |



**2.880.*****

**Weighing funnels, glass pointed,** for weighing of chemicals

***Sabots de pesée type entonnoir,***
*en verre, forme pointue, pour produits chimiques*

| Capacity<br>*Capacité*<br>ml | Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 35 | 12 | **2.880.000** |
| 3 | 65 | 22 | **2.880.001** |
| 6 | 70 | 28 | **2.880.002** |
| 10 | 80 | 32 | **2.880.003** |
| 30 | 110 | 40 | **2.880.004** |
| 60 | 135 | 50 | **2.880.005** |
| 170 | 200 | 65 | **2.880.006** |

**Glass scoop,** round, with ground edges, made of borosilicate glass

***Mains pour poudre,*** *en verre borosilicaté, forme arrondie*

| **Length** *Longueur* mm | **Order No.** *N° de code* |
|---|---|
| 82 | **2.880.101** |
| 95 | **2.880.102** |
| 137 | **2.880.103** |

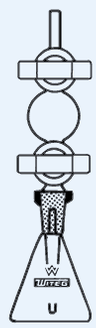


**2.880.1****

**Weighing pipettes,** Lunge-Rey, capacity 10 ml, made of borosilicate glass

***Pipette de pesée selon Lunge-Rey,*** *capacité 10 ml, en verre borosilicaté*

| **Complete** *Complète* | **Order No.** *N° de code* |
|---|---|
| | **2.882.000** |

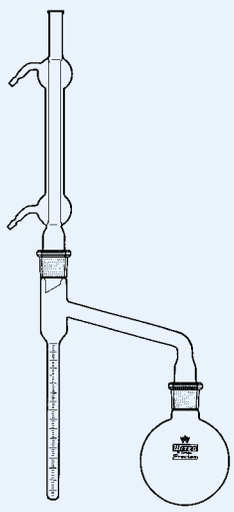


**2.882.***

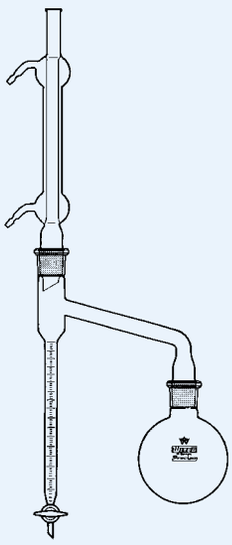
**Water estimator acc. to Dean Stark,** with flask, round bottom 500ml, ST 29/32. Measuring tube with cone/socket ST 29/32, made of borosilicate glass

***Appareil de Dean Stark pour la détermination de la teneur en eau,*** *en verre borosilicaté avec ballon à fond rond de 500 ml, tube de mesure sans robinet et réfrigérant de Liebig à RN 29/32*

| | **Order No.** *N° de code* |
|---|---|
| Complete with measuring tube without stopcock 2 ml : 0.05 ml<br>*Complet avec tube de mesure sans robinet de 2 ml : 0.05 ml* | **2.890.001** |
| Complete with measuring tube without stopcock 7.5 ml : 0.1 ml<br>*Complet avec tube de mesure sans robinet de 7.5 ml : 0.1 ml* | **2.890.002** |
| Complete with measuring tube without stopcock 10 ml : 0.1 ml<br>*Complet avec tube de mesure sans robinet de 10 ml : 0.1 ml* | **2.890.003** |
| Complete with measuring tube without stopcock 25 ml : 0.2 ml<br>*Complet avec tube de mesure sans robinet de 25 ml : 0.2 ml* | **2.890.004** |
| **Spare parts /** *Pièces de rechange* | |
| Flask, round bottom, 500 ml ST 29/32<br>*Ballon à fond rond de 500 ml RN 29/32* | **0.603.500** |
| Measuring tube 2 ml : 0.05 ml, without stopcock<br>*Tube de mesure sans robinet de 2 ml : 0.05 ml* | **2.890.006** |
| Measuring tube 7.5 ml : 0.1 ml, without stopcock<br>*Tube de mesure sans robinet de 7.5 ml : 0.1 ml* | **2.890.007** |
| Measuring tube 10 ml : 0.1 ml, without stopcock<br>*Tube de mesure sans robinet de 10 ml : 0.1 ml* | **2.890.008** |
| Measuring tube 25 ml : 0.2 ml, without stopcock<br>*Tube de mesure sans robinet de 25 ml : 0.2 ml* | **2.890.009** |
| Condenser acc. to West, 250 mm jacket length, with cone ST 29/32<br>*Réfrigérant de Liebig de 250 mm. RN 29/32* | **1.704.250** |
| Sampler tube, length 700 mm<br>*Tube à échantillon de 700 mm* | **2.890.011** |



**2.890.***

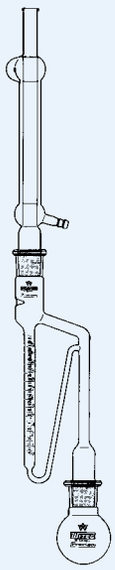


**2.892.*****

**Water estimator acc. to Dean Stark,** with flask, round bottom 500ml, ST 29/32, measuring tube with cone/socket ST 29/32, made of borosilicate glass

***Appareil de Dean Stark*** *pour la détermination de la teneur en eau, en verre borosilicaté avec ballon à fond rond de 500 ml, tube de mesure à robinet et réfrigérant de Liebig à RN 29/32*

| | Order No.<br>*N° de code* |
|---|---|
| Complete with measuring tube 10 ml : 0.1 ml, with stopcock<br>*Complet avec tube de mesure à robinet de 10 ml : 0.1 ml* | **2.892.000** |
| **Spare parts /** *Pièces de rechange* | |
| Flask, round bottom, 500 ml ST 29/32<br>*Ballon à fond rond de 500 ml RN 29/32* | **2.892.001** |
| Measuring tube 10 ml : 0.1 ml, with stopcock<br>*Tube de mesure à robinet de 10 ml : 0.1* | **2.892.002** |
| Condenser acc. to West, 400 mm jacket length, with cone ST 29/32<br>*Réfrigérant de Liebig à RN 29/32, 400 mm* | **1.704.400** |
| Sampler tube, length 800 mm<br>*Tube à éhantillon de 800 mm* | **2.892.004** |
| Measuring tube 10 ml : 0.1 ml, 0-point at the top<br>*Tube de mesure 10 ml : 0.1 ml, 0 en haut* | **2.892.102** |
| Measuring tube 20 ml : 0.3 ml, with stopcock<br>*Tube de mesure à robinet de 20 ml : 0.3 ml* | **2.892.202** |
| Measuring tube 25 ml : 0.1 ml, 0-point at the top<br>*Tube de mesure 25 ml : 0.1 ml, 0 en haut* | **2.892.152** |
| Measuring tube 25 ml : 0.1 ml, with stopcock<br>*Tube de mesure à robinet de 25 ml : 0.1 ml* | **2.892.252** |

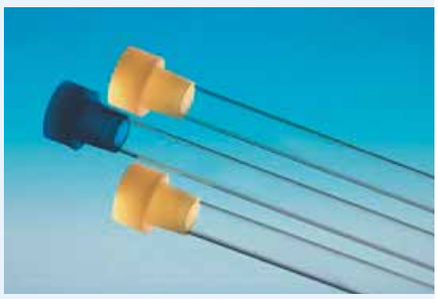


**2.894.*****

**Apparatus for determination the amount of dilution in crankcase oils of engines when gasoline has been used as fuel** acc. to DIN 51565 and ASTM-D322-83, made of borosilicate glass

***Appareil pour la détermination de la quantité de dilution dans les huiles de moteur quand le gazoil est utilisé en tant que fuel,*** *selon DIN 51565 et ASTM D322-83, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| Complete with measuring tube 3 ml : 0.1 ml<br>*Complet avec tube de mesure de 3 ml : 0.1* | **2.894.001** |
| Complete with measuring tube 5 ml : 0.1 ml<br>*Complet avec tube de mesure de 5 ml : 0.1* | **2.894.101** |
| Complete with measuring tube 12.5 ml : 0.1 ml<br>*Complet avec tube de mesure de 12.5 ml : 0.1* | **2.894.002** |
| **Spare parts /** *Pièces de rechange* | |
| Flask, round bottom, medium neck, 1000 ml ST 29/32<br>*Ballon à fond rond à RN 29/32, 1000 ml* | **2.894.003** |
| Measuring tube 3 ml : 0.1 ml, with cone and socket ST 29/32<br>*Tube de mesure à RN 29/32 de 3 ml : 0.1* | **2.894.004** |
| Measuring tube 5 ml : 0.1 ml, with cone and socket ST 29/32<br>*Tube de mesure à RN 29/32 de 5 ml : 0.1* | **2.894.104** |
| Measuring tube 12.5 ml : 0.1 ml, with cone and socket ST 29/32<br>*Tube de mesure à RN 29/32 de 12.5 ml : 0.1* | **1.704.400** |
| Condenser acc. to West, 400 mm jacket length, with cone ST 29/32<br>*Réfrigérant de Liebig de 400 mm. RN 29/32* | **2.894.006** |
| Sampler tube, length 800 mm<br>*Tube à échantillon de 800 mm* | **2.894.007** |



**2.899.*****

**NMR-Tubes,** made of borosilicate glass, length 178 mm. Tubes are free of paramagnetic substances. Available in 2 types

***Tubes RMN,*** *en verre borosilicaté, longueur 178 mm. Exempt de substances paramagnétiques. Disponibles en deux versions*

1. Standard: Disposable tubes for use in autosampler or for high output
   *Standard: Tubes à usage unique pour utilisation sur passeur automatique ou pour haut débit*
2. Scientific: Reusable tubes and can be washed and sterilized
   *Scientifique: Tubes réutilisables pouvant être lavés et stérilisés*

| Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Type<br>*Type* | Standard pack<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 4.97 ± 0.05 | 4.20 ± 0.05 | 1 | 250 | **2.899.001** |
| 4.97 ± 0.05 | 4.20 ± 0.05 | 2 | 5 | **2.899.002** |

**NMR-sample tube washers acc. to Swiegot,** complete with 2 PTFE-Adapter to fit 5 cuvets or NMR-tubes of 5 and 10 mm Ø in different lengths. Vacuum operated washers allowing the individual washing of 1 - 5 tube, complete with caps and FEP capillaries

***Laveur de tubes RMN sous vide selon Swiegot,*** *complet avec 2 adaptateurs en téflon pour y loger 5 cuvettes ou 1-5 tubes RMN de 5 et 10 mm de dia. à longueurs diverses, complet avec bouchons à vis et capillaires en FEP*

| | Order No.<br>*N° de code* |
|---|---|
| With ST 29/32 to fit bottles with socket ST 29/32<br>*Avec RN 29/32 pour flacons á RN 29/32* | 2.900.029 |
| With FA 26 to fit laboratory bottles GL 45<br>*Avec FA 26 pour flacons à col GL 45* | 2.900.032 |



2.900.***

**Filter pump, acc. to Friedrich-Antlinger,** for high performance, with spiral ejector, exhaust speed 400 ml/sec., water flow rate 10 l/mi. 4 bar water pressure, made of borosilicate glass

***Trompes à vide selon Friedrich-Antlinger,*** *en verre borosilicaté à haute performance, avec éjecteur à spirale. Vitesse de sortie 400 ml/sec. Débit d'eau 10 L/min. à une pression de 4 bar*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| With hose connection<br>*Avec raccord à olive pour tuyau* | 2.904.000 |
| With screw-thread GL 25 and O-ring gasket, for connecting directly on water tap<br>*Avec raccord à vis GL 25 y compris joint d'étancheité pour liaison directe sur le robinet d'alimentation d'eau* | 2.905.000 |



2.904.***

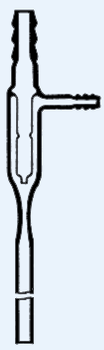


2.905.***

**Filter pump, simple model,** for a small water flow 1 l/min., 3.5 bar water pressure, made of borosilicate glass

***Trompes à vide simple,*** *en verre borosilicaté, pour débit de 1 L/min. à une pression d'eau de 3.5 bar*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Without non-return valve<br>*Sans vanne anti-retour* | 2.906.000 |
| With non-return valve<br>*Avec vanne anti-retour* | 2.906.001 |
| With GL 25<br>*Avec raccord à vis GL45* | 2.906.002 |



2.906.***

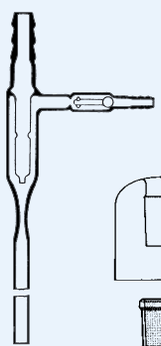


2.906.002

**Filter pump, simple model,** for high performance, water flow 5 l/min., 3.5 bar water pressure, made of borosilicate glass

***Trompes à vide simple,*** *en verre borosilicaté, pour débit de 5 L/min. à une pression d'eau de 3.5 bar*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Without non-return valve<br>*Sans vanne anti-retour* | 2.907.000 |
| With non-return valve<br>*Avec vanne anti-retour* | 2.907.001 |



2.907.***

**Sampling bottles,** 125 ml, made of borosilicate glass, with ground cap, for Merck-water analysis

***Flacon d'échantillonnage en verre borosilicaté,*** *avec bouchon rodé, cap. 125 ml, pour l'analyse de l'eau Merck*

| | Order No.<br>*N° de code* |
|---|---|
| | 2.910.100 |



2.910.1**

**Fermentation tubes,** graduated, complete with test tube, for Merck-water analysis, made of borosilicate glass

***Tube de fermentation gradué en verre borosilicaté,*** *complet avec tube à essai pour l'analyse de l'eau Merck*

| | Order No.<br>*N° de code* |
|---|---|
| | 2.910.200 |



2.910.2**



2.911.***



2.912.***

**Bottles, Winkler,** accurately adjusted capacity, with glass stopper and label, for the BOD determination, made of borosilicate glass

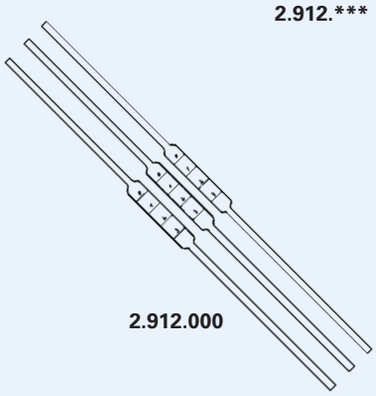
***Flacon de Winkler,*** *en verre avec bouchon plat en verre et étiquette, pour la détermination de la DBO*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 - 150 | 53 | 103 | **2.911.100** |
| 250 - 300 | 70 | 130 | **2.911.250** |
| 500 - 600 | 87 | 170 | **2.911.500** |

**Bottles, Winkler,** accurately adjusted capacity,with flat plastic stopper and label for BOD determination, made of borosilicate glass

***Flacon de Winkler****, en verre avec bouchon plat en plastique et étiquette pour la détermination de la DBO*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 - 150 | 53 | 103 | **2.912.100** |
| 250 - 300 | 70 | 130 | **2.912.250** |
| 500 - 600 | 87 | 170 | **2.912.500** |

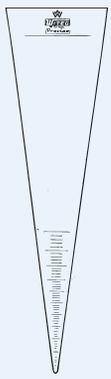


2.912.000

**Set of 3 volumetric pipettes acc. to Winkler** 3 different colours, capacity 5 ml, with marks at 0, 1, 2 and 3 ml, made of borosilicate glass

***Jeu de 3 pipettes volumétriques de Winkler,*** *de 3 couleurs différentes, cap. 5 ml*

| | Order No.<br>*N° de code* |
|---|---|
| | **2.912.000** |



2.930.***



2.936.***

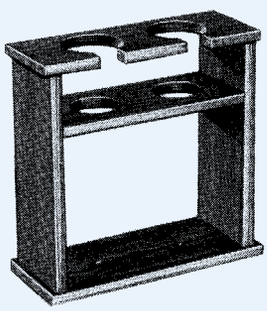


2.938.***

**Sedimentation cones Imhoff,** DIN 12672, capacity 1000 ml, made of borosilicate glass, graduated:
0 - 2 ml : 0.1 ml, 2 - 10 ml : 0.5 ml
10 - 40 ml : 1 ml, 40 - 100 ml : 2 ml

***Cônes de sédimentation d'Imhoff en verre borosilicaté,*** *cap. 1000 ml avec graduations:*
*0-2 ml : 0.1 ml, 2-10 ml : 0.5 ml,*
*10 - 40 ml : 1 ml, 40 - 100 ml : 2 ml*

| | Order No.<br>*N° de code* |
|---|---|
| With mark at 1000 ml, without stopcock<br>*Avec trait à 1000 ml, sans robinet* | **2.930.000** |
| With mark at 1000 ml, with ST-stopcock<br>*Avec trait à 1000 ml, avec robinet* | **2.932.000** |
| With graduations 100 - 1000 ml : 50 ml, without stopcock<br>*A graduations 100-1000 ml : 50 ml sans robinet* | **2.934.000** |
| With graduations 100 - 1000 ml : 50 ml, with ST-stopcock<br>*A graduations 100-1000 ml : 50 ml avec robinet* | **2.936.000** |
| With graduations 100 - 1000 ml : 50 ml, „New version“ with needle valve<br>*A graduations 100-1000 ml : 50 ml avec vanne à aiguille* | **2.936.100** |
| With graduations 100 - 1000 ml : 50 ml, made of SAN, with closure stopper<br>*En plexiglas (SAN) avec bouchon de fermeture, graduations 100-1000 ml : 50 ml* | **2.938.000** |



2.939.***

**Wooden stand,**
for sedimentation cone Imhoff

***Support en bois***
*pour cônes de sédimentation d'Imhoff*

| | Order No.<br>*N° de code* |
|---|---|
| 2 places | **2.939.000** |
| 4 places | **2.939.001** |



2.970.***

**Gas burette, 100 ml : 0.2 ml,** with resistant DIFFICO graduation, accuracy class A, main point ring graduation, with rising and descending numerical series, capacity 10 ml, with ST-stopcock, double bore, and ST-stopcock, with special screw-thread retaining nut, made of borosilicate glass

***Burette à gaz Classe A,*** *en verre borosilicaté avec graduations DIFFICO et robinets interchangeables, capacité 100 ml : 0.2 ml*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| acc. to Bunte / *de Bunde* | **2.970.000** |
| acc. to Tutwiler / *de Tutwiler* | **2.971.000** |

**Gas burette, Hempel, 100 ml : 0.2 ml,** with resistant DIFFICO graduation, accuracy class A, main point ring graduation, of iron base, made of borosilicate glass

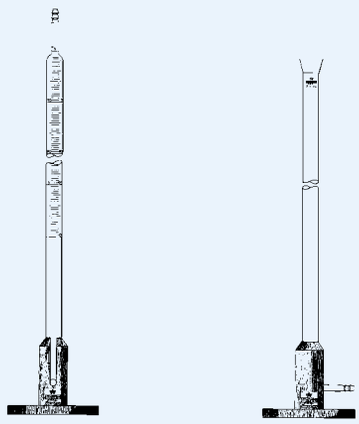
***Burette à gaz de Hempel Classe A,*** *avec graduations DIFFICO et pointe à olive, cap. 100 ml : 0.2 ml, montée sur socle en acier.*

| | Order No.<br>*N° de code* |
|---|---|
| | 2.972.000 |

**Levelling tube,** made of borosilicate glass, of iron base

***Tube de nivellement,*** *sur socle en acier*

| | Order No.<br>*N° de code* |
|---|---|
| | 2.973.000 |



2.972.*** 2.973.***

**Gas collecting bubbles,** made of rubber

***Baudruches de prélèvement de gaz,*** *en caoutchouc*

| Capacity<br>*Capacité*<br>L | Order No.<br>*N° de code* |
|---|---|
| 2 | 2.973.102 |
| 3 | 2.973.103 |
| 5 | 2.973.105 |
| 10 | 2.973.110 |

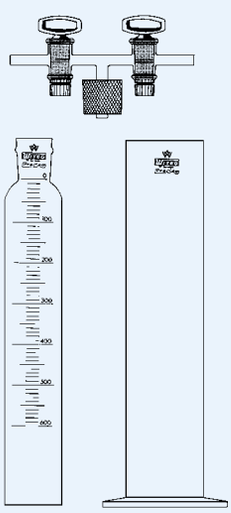


2.973.1**

**Gas bell, 600 ml : 5 ml,** made of borosilicate glass, with resistant DIFFICO graduation, short line graduation, complete with jar and stopcock connector with rubber stopper

***Cloche à gaz graduée,*** *en verre borosilicaté, cap. 600 ml : 5 ml complète avec jarre cylindrique et raccord à 2 robinets avec bouchon en caoutchouc*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complète* | 2.975.000 |
| **Spare parts /** *Pièces de rechange* | |
| Gas bell, graduated 600 ml : 5 ml<br>*Cloche à gaz graduée de 600 ml : 5 ml* | 2.975.001 |
| Jars with round base, 370 x 80 mm<br>*Jarre cylindrique, 370x80 mm* | 2.975.002 |
| Stopcock connector with 2 taps, with rubber stopper<br>*Raccord à 2 robinets et bouchon en caoutchouc* | 2.975.003 |

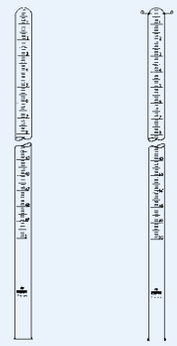


2.975.***
-
2.976.***

**Gas bell, 1000 ml : 10 ml,** made of borosilicate glass, with resistant DIFFICO graduation, short line graduation, complete with jar and stopcock connector with rubber stopper

***Cloche à gaz graduée,*** *de 1000 ml : 10 ml, complète avec jarre cylindrique, raccord à 2 robinets et bouchon en caoutchouc*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complète* | 2.976.000 |
| **Spare parts /** *Pièces de rechange* | |
| Gas bell, graduated 1000 ml : 10 ml<br>*Cloche à gaz graduée de 1000 ml : 10 ml* | 2.976.001 |
| Jars with round base, 400 x 100 mm<br>*Jarre cylindrique, 400x100 mm* | 2.976.002 |
| Stopcock connector with 2 taps, with rubber stopper<br>*Raccord à 2 robinets et bouchon en caoutchouc* | 2.976.003 |

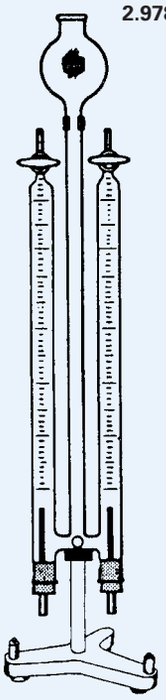


2.978.*** 2.979.***

**Gas measuring tubes (Eudiometers),** without stopcock, with resistant DIFFICO graduation, main point ring graduation, graduated 50 ml : 0.1 ml, made of borosilicate glass

***Tubes de mesure à gaz (Eudiomètres)*** *en verre borosilicaté gradué sans robinet, capacité 50 ml : 0.1 ml*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Without electrodes / *Sans électrodes* | **2.978.000** |
| With PT-electrodes / *Avec électrodes de platine* | **2.979.000** |

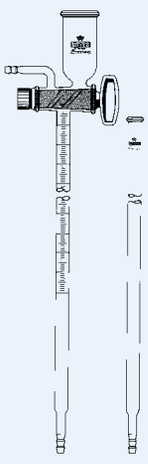


2.980.***

**Water decomposition apparatus acc. to Hoffmann,** made of borosilicate glass, consists of glass part with two parallel tubes, graduated 0 - 80 / 1 / 5 ml. 0-point stopcock with rubber stopper, two electrodes and a metal support

***Appareil pour décomposition de l'eau selon Hoffmann,*** *composé d'une partie en verre à 2 tubes parallèles gradués 0 - 80 / 1 / 5 ml avec robinets en haut, bouchons à la base, 2 électrodes et un support en métal*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete with platinum electrodes<br>*Complet avec électrodes de platine* | **2.980.000** |
| Complete with coal electrode<br>*Complet avec électrodes de carbone* | **2.980.001** |
| **Spare parts /** *Pièces de rechange* | |
| Glass part / *Partie en verre* | **2.980.002** |
| Platinum electrodes / *Electrode de platine* | **2.980.003** |
| Coal electrodes / *Electrode de carbone* | **2.980.004** |



2.982.***

## Nitrometer, Lunge
## *Nitromètre de Lunge*

**Nitrometer, Lunge,** made of borosilicate glass, with resistant DIFFICO graduation, main point ring graduation, graduated 50 ml : 0.1 ml, with ST-stopcock, double bore, with screw-thread retaining nut, complete with levelling tube

***Nitromètre de Lunge,*** *en verre gradué de 50 ml : 0.1 ml avec robinet interchangeable à vis de fixation, complet avec tube de nivellement*

| | Order No.<br>*N° de code* |
|---|---|
| | **2.982.000** |



2.984.***

## Gas collecting tubes
## *Ampoules d'échantillonnage de gaz*

**Gas collecting tubes,** with 2 straight stopcocks, with screw-thread retaining nuts, with marking label, made of borosilicate glass

***Ampoules d'échantillonnage de gaz,*** *en verre borosilicaté avec 2 robinets droits à vis de fixation y compris étiquette*

| Capacity<br>*Capacité*<br>ml | Solid outer Ø<br>*Ø ext.*<br>mm | Solid Length<br>*Longueur utile*<br>mm | Overall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>with septum |
|---|---|---|---|---|---|
| 150 | 42 | 155 | 250 | **2.984.150** | **2.984.150 SEP** |
| 350 | 54 | 200 | 300 | **2.984.350** | **2.984.350 SEP** |
| 500 | 65 | 220 | 330 | **2.984.500** | **2.984.500 SEP** |
| 1000 | 85 | 260 | 400 | **2.984.001** | **2.984.001 SEP** |

**Gas collecting tubes,** acc. to DIN 12473, with ST-stopcock and ST-stopcock, Czako, with screw-thread retaining nuts, with marking label, made of borosilicate glass

***Ampoules d'échantillonnage de gaz,*** *en verre borosilicaté avec un robinet droit et un robinet type Czako, y compris étiquette*

| Capacity<br>*Capacité*<br>ml | Solid outer Ø<br>*Ø ext.*<br>mm | Solid Length<br>*Longueur utile*<br>mm | Overall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>with septum |
|---|---|---|---|---|---|
| 150 | 42 | 155 | 250 | **2.986.150** | **2.986.150 SEP** |
| 350 | 54 | 200 | 300 | **2.986.350** | **2.986.350 SEP** |
| 500 | 65 | 220 | 330 | **2.986.500** | **2.986.500 SEP** |
| 1000 | 85 | 260 | 400 | **2.986.001** | **2.986.001 SEP** |



**2.986.*****

**Gas collecting tubes,** acc. to DIN 12473, with 2 stopcocks, Czako, with screw-thread retaining nuts, with marking label, made of borosilicate glass

***Ampoules d'échantillonnage de gaz,*** *en verre borosilicaté avec 2 robinet type Czako, y compris étiquette*

| Capacity<br>*Capacité*<br>ml | Solid outer Ø<br>*Ø ext.*<br>mm | Solid Length<br>*Longueur utile*<br>mm | Overall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>with septum |
|---|---|---|---|---|---|
| 150 | 42 | 155 | 250 | **2.988.150** | **2.988.150 SEP** |
| 350 | 54 | 200 | 300 | **2.988.350** | **2.988.350 SEP** |
| 500 | 65 | 220 | 330 | **2.988.500** | **2.988.500 SEP** |
| 1000 | 85 | 260 | 400 | **2.988.001** | **2.988.001 SEP** |



**2.988.*****

**Gas sampling tubes „Safety“**
Capacity 500 ml, with 2 PTFE-needle valve stopcocks with overtwist device and adjustable sealing ring, with 2 SVS-hose connections GL 14, one side with silicone rubber seal (septa), for piercing, complete with screw caps and seals, made of borosilicate glass

***Ampoules d'échantillonnage de gaz de sécurité,*** *en verre borosilicaté de capacité 500 ml avec 2 vannes à aiguille en téflon avec joint réglable, 2 raccords SVS pour tuyau GL14, une extrémité avec septum en silicone pour percage , y compris étiquette*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| 1 piece / *1 pièce* | **2.989.000** |
| 6 pieces in transport case / *6 pièces dans malette de transport* | **2.989.006** |
| 1 piece, with safety coating, sterilizable<br>*1 pièce avec protection et autoclavable* | **2.989.100** |
| 6 pieces in transport case with safety coating, sterilizable<br>*6 pièces avec protection, autoclavable dans malette de transport* | **2.989.106** |



**2.989.*****

## Gas generators, acc. to Kipp
## *Générateurs de Kipp*

**Gas generators, acc. to Kipp**
New model, with 2 screw threads GL 25, 1 screw thread GL 45 and GL 18, with needle valve stopcock with overtwist device, with tubulature at bottom, jointless, total grease free, apparatus, complete with safety funnel, with caps and seals, with hole disc, made of sterilizable silicone, 500 ml capacity of middle bulb, made of borosilicate glass

***Générateurs de Kipp, nouvelle version*** *en verre borosilicaté avec bouchonnages et raccordements à vis en silicone autoclavable, robinet à vanne à aiguille, tubulure à la base et entonnoir à boules de sécurité. Capacité 500 ml*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 500 | **2.989.500** |
| 1000 | **2.989.900** |



**2.989.500**

## Gas analysis apparatus
## *Analyseur de gaz*

**Gas analysis apparatus, Orsat-Fischer,** with 1 absorption pipette, filled with glass tubes and copper spirals, with 2 absorption pipettes, filled with glass tubes, for the determination of CO2, O2 and CO, in a transport case, complete with sliding doors

***Analyseur de gaz Orsat-Fischer*** *pour la détermination du CO2, O2 et CO, monté sur bâti portable à portes à glissière, avec une cloche d'absorption remplie de tubes en verre et de serpentins en cuivre et avec 2 cloches d'absorption remplies de tubes en verre*



**2.990.0****

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **2.990.000** |
| **Spare parts /** *Pièces de rechange* | |
| Absorbtion pipette, filled with glass tubes<br>*Cloche d'absorption avec tubes en verre* | **2.990.001** |
| Absorbtion pipette, filled with glass tubes and copper spirals<br>*Cloche d'absorption avec tubes en verre et serpentins en cuivre* | **2.990.002** |
| Gas burette, 100 ml, graduated 0 - 50 ml : 0.2 ml and 50 - 100 ml : 1 ml, with Schellbach stripe, with water jacket<br>*Burette à gaz de 100 ml, graduée 0-50 ml : 0.2 ml et de 50-100 ml : 1 ml avec bande en émail bleu et manteau de refroidissement.* | **2.990.003** |
| Stopcock manifolds, with 4 ST-stopcocks<br>*Distributeur à 4 robinets interchangeables* | **2.990.004** |
| Levelling bottle, 250 ml<br>*Flacon de nivellement, 250 ml* | **2.990.005** |
| **Accessories /** *Accessoires* | |
| Orsat rubber bulb<br>*Baudruche en caoutchouc d'Orsat* | **2.990.015** |



**2.990.1****

## Cuvet washer
## *Lave-cuvette*

**Cuvet washers acc. to Swiegot,** wash and dry cuvets, cells, test tubes or small scale volumetric instruments with outer dimensions not larger than approx. 20 mm. Activate flushing by lightly pressing inverted cell onto silicone gasket, complete with laboratory bottle GL 45, 500 ml, complete autoclavable, made of borosilicate glass

***Lave-cuvette selon Swiegot,*** *il permet de laver et sécher les cuvettes, les tubes à essais ou autres instruments volumétriques jusqu'à un diamètre extérieur max. de 20 mm. Livré complet avec flacon en verre de 500 ml à raccord à vis GL 45, entièrement autoclavable, en verre borosilicaté*



**2.990.2****

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Single for 100 ml washing solution<br>*Simple pour 100 ml de solution de lavage* | **2.990.111** |
| Double for 2 x 50 ml washing solution<br>*Double pour 2 x 50 ml de solution de lavage* | **2.990.211** |

## Vacuum sublimentation apparatus
## *Appareil de sublimation sous vide*

**Vacuum sublimentation apparatus.** PRECISO. New model. An effective cleansing of many drugs and chemicals which, while being heated, directly pass from the solid state, into the vaporous state without liquifying before and which solidify again when they are cooled correspondingly. The purified sublimate can be easily and completely regained from the conical condenser after the termination of the sublimation process. Vacuum-tight without grease, made of borosilicate glass

***Appareil de sublimation sous vide, nouvelle version*** *en verre borosilicaté. Adapté pour les médicaments et produits chimiques. Durant la période de chauffe, passe directement de l'état solide à l'état d''évaporation sans être liquéfié avant et qui se solidifie à nouveau lorsqu'on le refroidi. Etanche au vide et sans graisse*

| **Type**<br>***Type*** | **Capacity**<br>***Capacité***<br>**ml** | **Order No.**<br>***N° de code*** |
|---|---|---|
| Micro-apparatus GL 45<br>*Version micro GL 45* | 25 | **2.994.001** |
| Semi-micro-apparatus GL 45<br>*Version semi-micro GL 45* | 100 | **2.994.002** |
| Macro-apparatus GL 100<br>*Version macro GL 100* | 1000 | **2.994.003** |



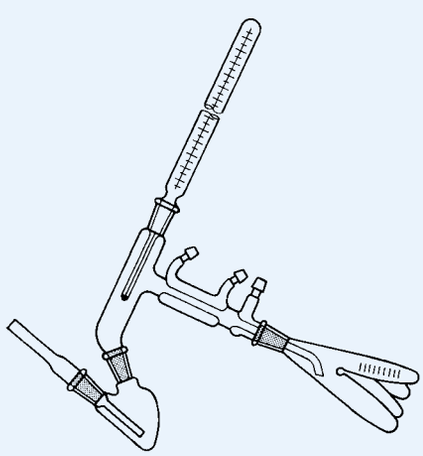
**2.994.*****

## Micro distillation apparatus
## *Appareil de micro-distillation*

**Short path distilling apparatus, micro,** extremly short mode of construction, made of borosilicate glass, gentle treatment of the distilling material, the receiver flasks can be easily emptied by a pipette

***Appareil de micro-distillation à trajet court,*** *en verre borosilicaté. Le flacon récepteur peut être vidé à l'aide d'une pipette*

| **Type**<br>***Type*** | **Order No.**<br>***N° de code*** |
|---|---|
| Complete / *Complet* | **2.996.000** |
| **Spare parts /** *Pièces de rechange* | |
| Flask, pear shaped, 2 x ST 14/23, 10 ml<br>*Fiole piriforme à 2 RN 14/23, 10 ml* | **2.996.001** |
| Short path distilling link with condeser, 3 x ST 14/23<br>*Raccord de distillation avec refrigérant à 3 RN 14/23* | **2.996.002** |
| Thermometer -10 to +250 °C : 1 °C, ST 14/23<br>*Thermomètre -10/+250°C : 1°C, RN 14/23* | **2.996.003** |
| Air leak tube, ST 14/23 / *Tube à air, RN 14/23* | **2.996.004** |
| Receiver with 4 test tubes, 3 ml : 0.5 ml<br>*Collecteur à 4 tubes gradués de 3 ml : 0.5 ml* | **2.996.005** |
| Clip for joint, ST 14/23 7 *Bague de fixation pour RN 14/23* | **2.996.006** |
| **Accessories /** *Accessoires* | |
| Fractionating column acc. to Vigreux 200 mm length, 2 x ST 14/23<br>*Colonne de fractionnement de Vigreux, 200 mm, 2 RN 14/23* | **2.996.007** |

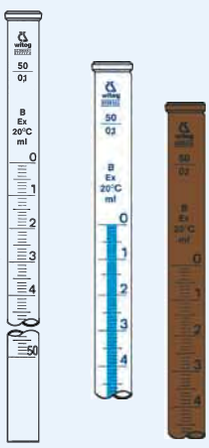


**2.996.*****

# Burettes
## *Burettes*

**Burettes class B, short line graduation acc. to DIN EN ISO 385.**
Amber stain graduations and inscriptions „DIFFICO“, resistant to alkalis and acids and abrasion with beaded rims which have considerable mechanical strength. All plugs with screw thread retaining nuts. Calibrated to deliver, made of DURAN.
**Delivery time 35 - 60 s, without waiting time**

***Burettes graduées classe B selon DIN 12700 (ISO/R385)***
*en verre borosilicaté, graduations et inscriptions en couleur brun à haute résistance chimique, bord évasé et robinet avec vis de fixation.*
***Temps d'écoulement 35-60 sec., sans attente.***
***En verre borosilicaté***



**3.000.*** - 3.004*****

**Burette tubes class B,** short line graduation, to fuse on, made of clear borosilicate glass

***Burettes droites graduées classe B,*** *tube seul en verre clair borosilicaté, sans robinet*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.000.050** |
| 10 | 0.02 | ± 0.03 | **3.000.100** |
| 25 | 0.05 | ± 0.04 | **3.000.250** |
| 50 | 0.10 | ± 0.08 | **3.000.500** |
| 100 | 0.20 | ± 0.15 | **3.000.900** |

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.050** |
| 10 | 0.02 | ± 0.03 | **3.002.100** |
| 25 | 0.05 | ± 0.04 | **3.002.250** |
| 50 | 0.10 | ± 0.08 | **3.002.500** |
| 100 | 0.20 | ± 0.15 | **3.002.900** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.004.050** |
| 10 | 0.02 | ± 0.03 | **3.004.100** |
| 25 | 0.05 | ± 0.04 | **3.004.250** |
| 50 | 0.10 | ± 0.08 | **3.004.500** |
| 100 | 0.20 | ± 0.15 | **3.004.900** |



**3.002.**1**

**Burettes class B,** with tip, rubber and tubing, **Schellbach blue line**, made of borosilicate glass

***Burettes droites graduées classe B,*** *en verre avec bande en émail blue, sans robinet, avec embout, caoutchouc et tube*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.051** |
| 10 | 0.02 | ± 0.03 | **3.002.101** |
| 25 | 0.05 | ± 0.04 | **3.002.251** |
| 50 | 0.10 | ± 0.08 | **3.002.501** |
| 100 | 0.20 | ± 0.15 | **3.002.901** |

**Burettes class B,** short line graduation, with straight stopcock, with solid ST-glass-plug, made of clear borosilicate glass

***Burettes droites graduées classeB,*** *en verre clair borosilicaté et robinet à clé en verre interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.000.052** |
| 10 | 0.02 | ± 0.03 | **3.000.102** |
| 25 | 0.05 | ± 0.04 | **3.000.252** |
| 50 | 0.10 | ± 0.08 | **3.000.502** |
| 100 | 0.20 | ± 0.15 | **3.000.902** |

**Schellbach blue line**

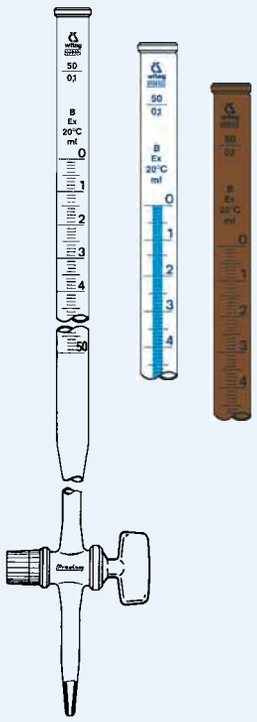
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.052** |
| 10 | 0.02 | ± 0.03 | **3.002.102** |
| 25 | 0.05 | ± 0.04 | **3.002.252** |
| 50 | 0.10 | ± 0.08 | **3.002.502** |
| 100 | 0.20 | ± 0.15 | **3.002.902** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.004.052** |
| 10 | 0.02 | ± 0.03 | **3.004.102** |
| 25 | 0.05 | ± 0.04 | **3.004.252** |
| 50 | 0.10 | ± 0.08 | **3.004.502** |
| 100 | 0.20 | ± 0.15 | **3.004.902** |



**3.002.***2**
**-**
**3.004.***2**

**Burettes class B,** short line graduation, with straight stopcock, with PTFE-plug, made of clear borosilicate glass

***Burettes droites graduées classe B,*** *en verre clair borosilicaté et robinet à clé en Téflon (PTFE) interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.000.053** |
| 10 | 0.02 | ± 0.03 | **3.000.103** |
| 25 | 0.05 | ± 0.04 | **3.000.253** |
| 50 | 0.10 | ± 0.08 | **3.000.503** |
| 100 | 0.20 | ± 0.15 | **3.000.903** |

**Schellbach blue line**

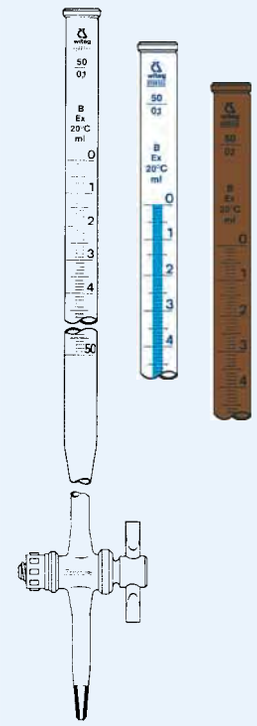
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.053** |
| 10 | 0.02 | ± 0.03 | **3.002.103** |
| 25 | 0.05 | ± 0.04 | **3.002.253** |
| 50 | 0.10 | ± 0.08 | **3.002.503** |
| 100 | 0.20 | ± 0.15 | **3.002.903** |

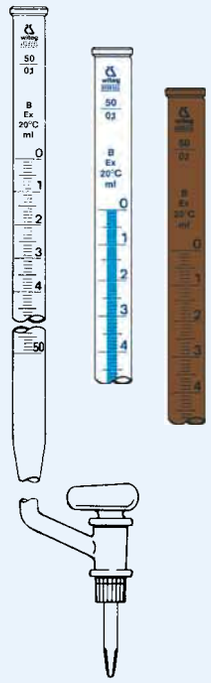
**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.004.053** |
| 10 | 0.02 | ± 0.03 | **3.004.103** |
| 25 | 0.05 | ± 0.04 | **3.004.253** |
| 50 | 0.10 | ± 0.08 | **3.004.503** |
| 100 | 0.20 | ± 0.15 | **3.004.903** |



**3.000.***3**
**-**
**3.004.***3**



3.002.**4
-
3.004.**4

**Burettes class B,** short line graduation, with lateral stopcock, with solid ST-glass-plug, made of clear borosilicate glass

***Burettes graduées classe B,***
*en verre clair borosilicaté avec robinet latéral à clé en verre interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.000.054** |
| 10 | 0.02 | ± 0.03 | **3.000.104** |
| 25 | 0.05 | ± 0.04 | **3.000.254** |
| 50 | 0.10 | ± 0.08 | **3.000.504** |
| 100 | 0.20 | ± 0.15 | **3.000.904** |

**Schellbach blue line**

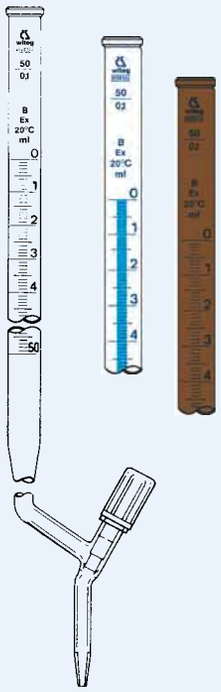
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.054** |
| 10 | 0.02 | ± 0.03 | **3.002.104** |
| 25 | 0.05 | ± 0.04 | **3.002.254** |
| 50 | 0.10 | ± 0.08 | **3.002.504** |
| 100 | 0.20 | ± 0.15 | **3.002.904** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.004.054** |
| 10 | 0.02 | ± 0.03 | **3.004.104** |
| 25 | 0.05 | ± 0.04 | **3.004.254** |
| 50 | 0.10 | ± 0.08 | **3.004.504** |
| 100 | 0.20 | ± 0.15 | **3.004.904** |



3.002.**5
-
3.004.**5

**Burettes class B,** short line graduation, with lateral needle valve stopcock, with PTFE-needle valve, with overtwist device, made of clear borosilicate glass

***Burettes graduées classe B,***
*en verre clair borosilicaté à robinet latéral avec vanne à aiguille en téflon interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.000.055** |
| 10 | 0.02 | ± 0.03 | **3.000.105** |
| 25 | 0.05 | ± 0.04 | **3.000.255** |
| 50 | 0.10 | ± 0.08 | **3.000.505** |
| 100 | 0.20 | ± 0.15 | **3.000.905** |

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.055** |
| 10 | 0.02 | ± 0.03 | **3.002.105** |
| 25 | 0.05 | ± 0.04 | **3.002.255** |
| 50 | 0.10 | ± 0.08 | **3.002.505** |
| 100 | 0.20 | ± 0.15 | **3.002.905** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.004.055** |
| 10 | 0.02 | ± 0.03 | **3.004.105** |
| 25 | 0.05 | ± 0.04 | **3.004.255** |
| 50 | 0.10 | ± 0.08 | **3.004.505** |
| 100 | 0.20 | ± 0.15 | **3.004.905** |

**Burettes class B,** short line graduation, with two-way stopcock, with ST-glass-plug, made of clear borosilicate glass

***Burettes droites graduées classe B,*** *en verre clair borosilicaté avec robinet à 2 voies à clé en verre interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.000.056** |
| 10 | 0.02 | ± 0.03 | **3.000.106** |
| 25 | 0.05 | ± 0.04 | **3.000.256** |
| 50 | 0.10 | ± 0.08 | **3.000.506** |
| 100 | 0.20 | ± 0.15 | **3.000.906** |

**Schellbach blue line**

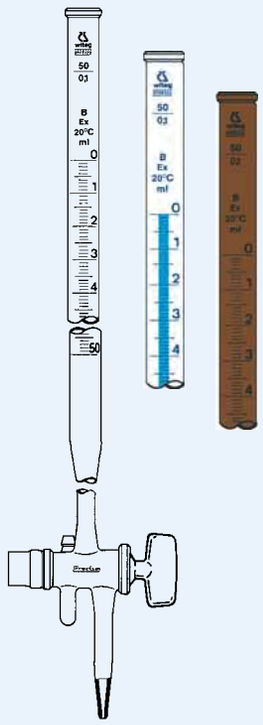
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.056** |
| 10 | 0.02 | ± 0.03 | **3.002.106** |
| 25 | 0.05 | ± 0.04 | **3.002.256** |
| 50 | 0.10 | ± 0.08 | **3.002.506** |
| 100 | 0.20 | ± 0.15 | **3.002.906** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.004.056** |
| 10 | 0.02 | ± 0.03 | **3.004.106** |
| 25 | 0.05 | ± 0.04 | **3.004.256** |
| 50 | 0.10 | ± 0.08 | **3.004.506** |
| 100 | 0.20 | ± 0.15 | **3.004.906** |



**3.002.******6**
**-**
**3.004.******6**

**Burettes class DIN-B,** short line graduation, with straight valve stopcock, with overtwist safety, made of clear borosilicate glass

***Burettes droites graduées classe DIN-B,*** *en verre clair borosilicaté avec robinet à vanne à aiguille interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.000.057** |
| 10 | 0.02 | ± 0.03 | **3.000.107** |
| 25 | 0.05 | ± 0.04 | **3.000.257** |
| 50 | 0.10 | ± 0.08 | **3.000.507** |
| 100 | 0.20 | ± 0.15 | **3.000.907** |

**Schellbach blue line**

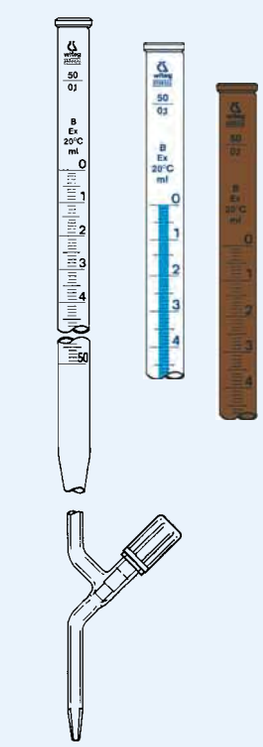
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.002.057** |
| 10 | 0.02 | ± 0.03 | **3.002.107** |
| 25 | 0.05 | ± 0.04 | **3.002.257** |
| 50 | 0.10 | ± 0.08 | **3.002.507** |
| 100 | 0.20 | ± 0.15 | **3.002.907** |

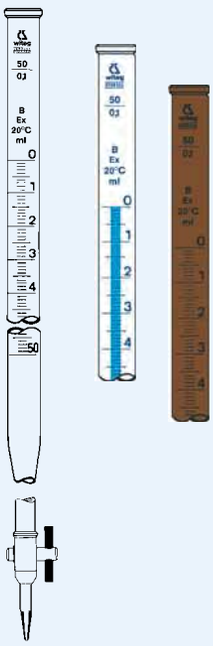
**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.004.057** |
| 10 | 0.02 | ± 0.03 | **3.004.107** |
| 25 | 0.05 | ± 0.04 | **3.004.257** |
| 50 | 0.10 | ± 0.08 | **3.004.507** |
| 100 | 0.20 | ± 0.15 | **3.004.907** |



**3.002.******7**
**-**
**3.004.******7**



**3.000.**8**
-
**3.004.**8**

**Burettes class B,** short line graduation, with new detachable PTFE-stopcock (House and plug complete made of PTFE), bore 2.5 mm, with O-ring gasket and intercangeable glass tip, made of clear borosilicate glass

***Burettes droites graduées classe B,*** *en verre clair borosilicaté avec robinet à clé en Téflon (PTFE) et pointe en verre interchangeable avec joint*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.05 | ± 0.04 | **3.000.258** |
| 50 | 0.10 | ± 0.08 | **3.000.508** |
| 100 | 0.20 | ± 0.15 | **3.000.908** |

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.05 | ± 0.04 | **3.002.258** |
| 50 | 0.10 | ± 0.08 | **3.002.508** |
| 100 | 0.20 | ± 0.15 | **3.002.908** |

**Amber glass**

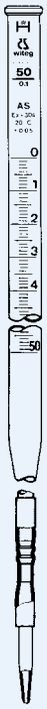
***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.05 | ± 0.04 | **3.004.258** |
| 50 | 0.10 | ± 0.08 | **3.004.508** |
| 100 | 0.20 | ± 0.15 | **3.004.908** |

**Spare parts**

***Pièces de rechange***

| | Order No.<br>*N° de code* |
|---|---|
| PTFE-stopcock, without glass-tip<br>*Robinet en téflon, sans pointe en verre* | **3.004.910** |
| Glass-tip<br>*Pointe en verre* | **3.004.911** |



**3.012.**1**

**Burettes class AS, conformity certified, main point ring-graduation, acc. to DIN EN ISO 385 ).**
Amber stain graduations and inscriptions „DIFFICO“, resistant to alkalis and acids and abrasion with beaded rims which have considerable mechanical strength. All plugs with screw thread retaining nuts. Calibrated to deliver.
**Delivery time 35 - 45 s, waiting time 30 s.**
**Made of DURAN**

***Burettes graduées classe AS,*** *avec certificat de conformité, selon DIN EN ISO 385.*
*Graduations en couleur brun à haute résistance chimique, bordure évasée. Toutes les clés de robinets avec vis de fixation.*
***Temps d'écoulement 35-45 sec., attente 30 sec.***
***En verre DURAN***

**Burettes class AS, conformity certified,** with tip, rubber and tubing, **Schellbach blue line**, made of borosilicate glass

***Burettes droites graduées classe AS,*** *certifiées conformes, en verre borosilicaté à bande en émail bleu avec pointe en verre, caoutchouc et tube*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.01 | **3.012.051** |
| 10 | 0.02 | ± 0.02 | **3.012.101** |
| 25 | 0.05 | ± 0.03 | **3.012.251** |
| 50 | 0.10 | ± 0.05 | **3.012.501** |
| 100 | 0.20 | ± 0.10 | **3.012.901** |

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***

**Burettes class AS, conformity certified,** main point ring graduation, with straight stopcock, with solid ST-glass-plug, made of clear borosilicate glass

***Burettes droites graduées classe AS,*** *certifiées conformes, en verre clair borosilicaté avec robinet à clé en verre interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.010.102** |
| 25 | 0.05 | ± 0.03 | **3.010.252** |
| 50 | 0.10 | ± 0.05 | **3.010.502** |

**Schellbach blue line**

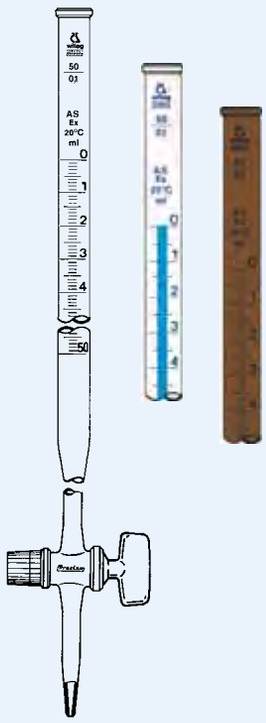
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.01 | **3.012.052** |
| 10 | 0.02 | ± 0.02 | **3.012.102** |
| 25 | 0.05 | ± 0.03 | **3.012.252** |
| 50 | 0.10 | ± 0.05 | **3.012.502** |
| 100 | 0.20 | ± 0.10 | **3.012.902** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.014.102** |
| 25 | 0.05 | ± 0.03 | **3.014.252** |
| 50 | 0.10 | ± 0.05 | **3.014.502** |



**3.010.******2**
**-**
**3.014.******2**

**Burettes class AS, conformity certified,** main point ring graduation, with straight stopcock, with ST-PTFE-plug, made of clear borosilicate glass

***Burettes droites graduées classe AS*** *certifiées conformes, en verre clair borosilicaté avec robinet à clé en téflon interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.010.103** |
| 25 | 0.05 | ± 0.03 | **3.010.253** |
| 50 | 0.10 | ± 0.05 | **3.010.503** |

**Schellbach blue line**

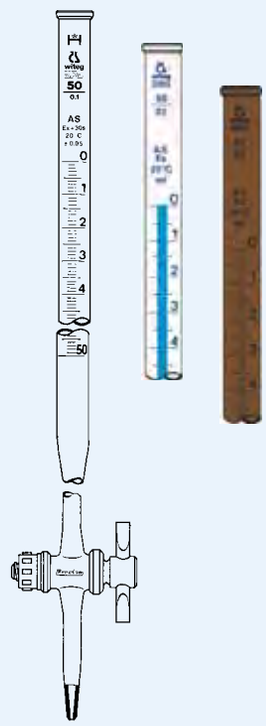
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.01 | **3.012.053** |
| 10 | 0.02 | ± 0.02 | **3.012.103** |
| 25 | 0.05 | ± 0.03 | **3.012.253** |
| 50 | 0.10 | ± 0.05 | **3.012.503** |
| 100 | 0.20 | ± 0.10 | **3.012.903** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.014.103** |
| 25 | 0.05 | ± 0.03 | **3.014.253** |
| 50 | 0.10 | ± 0.05 | **3.014.503** |



**3.010.******3**
**-**
**3.014.******3**

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***

# DIN EN ISO 9001:2000

## Quality Assurance with Liquid Handling Products

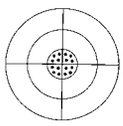
**ACCURACY • REPRODUCIBILITY • STANDARD DEVIATION**

### Accuracy

Is the deviation of mean value from the nominal value related to the nominal value in %.

### Reproducibility

(Coefficient of variation)
is the standard deviation in % related to the mean value.



### Standard deviation

after 16 pump-strokes with the Labmax-Dispenser - the target helps to illustrate the results: all hits are close together - that means:

### Good reproducibility

All hits are closely around the nominal value - that means:

### Good accuracy.

### Warranty

witeg volumetric instruments (liquid handling products) are strictly manufactured in accordance to the quality assurance system defined by ISO 9001
The symbol H certifies the conformity of its production with the official specifications, i.e. the German Rules for Official certification (Eichordung, Annex 12)

**The result:**

minute systematic errors, narrow scatters - permissible limits are not exceeded.

### TOP PRIORITY for our customers

We wish to be a strong and reliable partner to our customers. We want our customers to be satisfied with us. For that reason we always have an open ear for questions or problems that may occur. That is what counts!

### And that you can expect from us:

- high quality level
- fair and competitive prices
- friendly and competent staff
- speedy and professional order processing
- an open ear - even in case of special and small-lot productions
- large stocks of our products

### With witeg always a step ahead

witeg develops, manufactures and supplies a wide range of laboratory instruments, made from glass and plastics, as well as Liquid Handling products of highest precision to make the job of our customer easier, faster and safer f.e. with Witeg volumetric measuring instruments - dependable results will only be possible, if the volumetric instruments employed for the sample preparation are equally accurate and reliable.

# Conformity certification

**• How to recognize the conformity certification?**
The instruments carry the symbol of conformity - a stylized "H" as well as the code of the issuer of the conformity certificate. For Disposables the "H" appears on the packaging and/or the accompanying documents.

**• What does conformity stand for?**
Conformity means compliance of an instrument with the German Rules for Official Certification (Eichordnung, Annex 12). The conformity certification procedure is described by DIN 12 600. The "Exemption from Certification Act" has become obsolete.

**• Which instruments must be conformity certified?**
The conformity certification is obligatory for the instruments mentioned under "conformity certification according to the Rules for Official Certification" and their volumetrically relevant accessories. Moreover, instruments and accessories belonging together must be clearly identified by the manufacturer. The crucial date is the 1st of January 1989. In the interest of a consistent quality of measurements, older instruments should be replaced by conformity certified instruments as soon as possible.

**• Official Certification and Conformity certification**
Germany's Rules for Official Certification - valid as of August 12, 1988 - call for a certification of conformity rather than for an official test certificate for volumetric instruments which are kept and used for commercial and pharmaceutical purposes. The same applies for volumetrically relevant accessories.

**• Who certifies conformity?**
In general, the manufacturer certifies the conformity of his production and - on request - the "Authority of Weights and Measures" as well.

**• Who is responsible for enforcing these regulations?**
The instrument manufacturer is responsible for the conformity of the instruments, the purchaser for the procuring and availability of conformity certified instruments and the head of the laboratory fot their use.

**• Conformity certification by witeg**
Since the above regulations have come into effect a new symbol is to be found on witeg instruments or their accompanying documents:
The H stands for conformity certification and W for Witeg, Wertheim. The symbol on the instruments may be supplemented by the symbol ⚠ which refers to the operating manual. These references must be strictly observed.
Witeg certifies the conformity for volumetric instruments of glass directly on the instrument, for disposable products on the smallest packing unit, and for Liquid Handling products on the instrument and/or an accompanying documents along with references to volumetrically relevant accessories.

The purpose of conformity certification is, to ensure a uniform and constant high level of quality in the sense of accurate measuring results.
Various terms are used to define measuring accuracy. "Error limit" or "absolute error" (/EL; compare Eichordung, Annex 12)! Accuracy (A%) and reproducibility (coefficient of variation, CV% or V%). "Accuracy" describes the deviation of the measured value from the nominal value - the smaller A% is - the better. "Reproducibility" describes the repeatability of the result - the smaller CV% is - the better. By agreement - the manufacturer my elther state EL, or A% and CV%.
The relation if defined by the following formula: ($V_N$ = Nominal volume)

$$FG\ [EL] \geq \frac{(R\%\ [A\%] + 2\ V\%\ [CV\%])}{100\ \%}\ V_N$$

This information is based on DIN 1319 T3 where the basic terms of measuring technology are defined. These values are maximum values.

**• Reproducibility and accuracy of Witeg volumetric instruments**
The calibration of volumetric instruments is made by modern electronical adjusting automatons.
DIFFICO Graduated Measuring - and Volumetric Pipettes as well as Measuring Cylinders, Volumetric Flasks and Burettes are calibrated fully automatic and permanent checks during the manufacturing processes guarantees the production of volumetric instruments with the smallest possible deviation.
The results are minute systematic errors, narrow scatter without exhausting permissible limits.

witeg volumetric instruments are manufactured to the quality assurance system defined by ISO 9001:200.

## IVD-regulation
## …and its meaning for witeg products

The IVD-regulation of the EU
On December 7th 1997 the IVD regulation for in-vitro diagnostics was published and enforced.
Within one year it had to be adopted to the national laws.

What are in-vitro diagnostics
In-vitro diagnostics are medical products which are used in in-vitro tests with samples of human origin including blood and tissue samples.
In-vitro diagnostics are such as reagents, calibration substances or instruments, apparatus, analytical systems or sample vessels if they are specifically recommended for medical samples.

In-vitro diagnostics are used to receive information about
- physiological or pathological conditions
- congenital abnormalities
- therapeutical measures.

What are medical products?
Medical products are all instruments, apparatuses, media or equipment including software which is specifically recommended for application at the human beeing by the manufacturer.
- For cognition, precaution, test and treatment, alleviation or compensation of sicknesses, injuries or handicaps
- For examinations, substitutions or changes of the anatomic structure or physiological process
- For conception regulation

Not included are pharmacological or immunological media which are regulated in the law governing the manufacture and prescription of drugs.

Certification
The CE symbol on a product confirms that the product is in accordance with the demands of the EU-regulations for this product type and, if necessary, was tested according to the regulations. The manufacturer imprints the symbol at the product and in addition makes out the conformity certificate which confirms the agreement of the product with the corresponding regulations and standards.
witeg supplies only medical products of the in-vitro group IVD, such as Diffico volumetric instruments class A/AS, micro pipets, blood pipets, counting chambers, reaction vessels and liquid handling products like Witopet, Witopet digital, Witopet elect, Witopette and Witopette-Tips, Witoped, Labmax Dispenser and Titrex Digital Buret and pipet tips.

Time scale for the IVD-regulation

- On December 7th 1998 the regulation was inforced
- On June 7th 2000 the regulations will be applied in national laws
- On December 7th 2003 the period of transition for the IVD ends any IVD-products must be indicated with the CE-mark
- Until December 7th 2005, i.e. two years later, all products which were produced before December 7th 2003 but are still in stock at dealers or end-users must be sold out.

## Certificates
## witeg-Diffico® volumetric instruments

H and batch number
All witeg Diffico volumetric instruments are conformity certified and indicate a digital easy-to-read batch number. They can be supplied with the following certificates:

Quality certificate (Werksprüfzeugnis)
Available as batch or individual certificate. The record is taken in accordance with DIN EN ISO 9001, DIN ISO 10012-1 and ISO 4787. The initial test is made at witeg for any Diffico certified volumetric instrument. The user can just copy the certified data and needs not to establish an initial test.

Batch certificate
All instruments and certificates from the same production batch carry the same batch number. The certificate records the mean value, the standard deviation and the date of issue:

**01.08.01 (Batch number)**

This certificate is included with any standard pack of witeg Diffico volumetric instruments class A/AS free of charge.

Individual certificate
Instruments and certificates carry in addition to the batch number an individual serial number. The individual volume, the tolerances and the date of issue are recorded:

**01.08.0110 (Batch- and individual Serial number)**

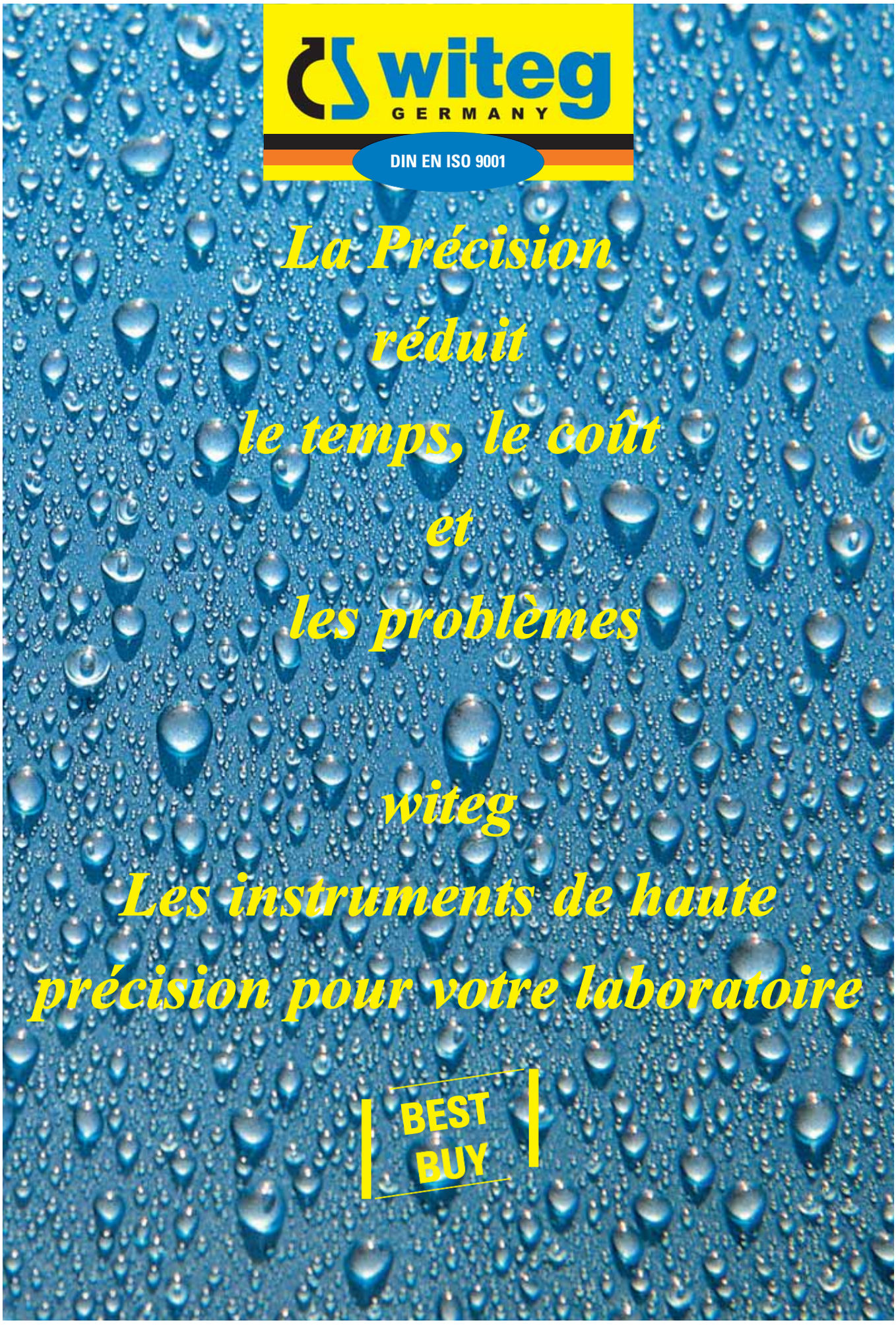
Please add an „IC“ at the end of the order number to order this certificate.

Conformity certificate
With this mark witeg certifies the conformity of the instrument with the „deutsche Eichordnung“. The mark is printed onto the products in accordance with DIN 12600. All witeg-Diffico volumetric instruments are conformity certified.

Official conformity certificate
With this mark the „deutsche Eichamt“ confirms the confirmity with the „deutsche Eichordnung“. The mark is printed onto the products in accordance with DIN 12600.
For witeg-Diffico volumetric instruments with official conformity certificate please add an „OC“ at the end of the order number.

Official calibration protocol
The protocol is set up by the „Eichamt“ and aknowledged by many countries. Both, instrument and protocol carry an individual serial number for identification including date of issue.
On request witeg-Diffico volumetric instruments are supplied with the official protocol, please add an „OCC“ at the end of the order number.

witeg started immediately to realize the regulations when they were enforced and began already to supply CE-marked equipment.
And witeg fulfills already all basic demands for CE-marking of IVD-products. The marking of these products may only start as soon as the legislation is defined finally.
All the other medical products except of IVD-products must already be marked with the CE-mark today.


witeg
GERMANY
DIN EN ISO 9001
La Précision
réduit
le temps, le coût
et
les problèmes
witeg
Les instruments de haute
précision pour votre laboratoire
BEST
BUY

## *Réglementation IVD ....et son explication pour les produits de Witeg*

*La réglementation IVD de l'U.E*
*Le 7 décembre 1997 la réglementation IVD pour les diagnostiques in-vitro avait été publiée et appliquée. En un an elle a été adoptée par les lois nationales.*

*Que sont les diagnostiques in-vitro?*
*Ce sont des produits qui sont utilisés dans les tests in-vitro avec des échantillons d'origine humaine y compris le sang et les tissus.*
*Ce sont aussi des réactifs, des substances d'étalonnage ou des instruments, appareils, systèmes d'analyse ou récipients d'échantillonnage, s'ils sont spécifiquement recommandés pour les échantillons médicaux.*

*Les diagnostiques in-vitro sont utilisés pour avoir des nformations sur:*
- *conditions physiologiques ou pathologiques*
- *Annormalités congénitales*
- *Mesures therapeutiques*

*Que sont les produits médicaux?*
*Ce sont tous les instruments, appareils, milieux ou équipement composés de logiciel recommandés spécialement pour des applications proposées par le fabricant.*

*Certification*
*Le symbol CE sur un produit confirme que le produit répond aux réglementations de l'U.E pour ce type de produit et, si nécessaire, qu'il a été testé selon les réglementations. Le fabricant imprime le symbol sur le produit et émet le certificat de conformité qui confirme que le produit répond aux réglementations et aux normes.*

*Witeg livre uniquement des produits médicaux du groupe in-vitro IVD comme les instruments volumétriques Diffico de la classe A/AS, les micropipettes, les pipettes sanguines, les chambres de comptage, les vases à réaction et les produits relatifs au traitement des liquides tels que Witopet, Witopet digital, Witopet électrique, Witopette et embouts Witopette, distributeurs Labmax et burette digitale Titrex y compris embouts de pipette.*

*Tableau périodique de la réglementation IVD*

- *Le 7 décembre 1998 la réglementation entre en vigueur*
- *Le 7 juin 2000 les réglémentations sont appliquées par les loies nationales*
- *Le 7 décembre 2003 la période transitoire pour les produits finis IVD doit être mentionnée avec le symbol CE*
- *Jusqu'au 7 décembre 2005, soit 2 ans plus tard, tous les produits qui avaient été fabriqués avant le 7 décembre 2003 et qui se trouvent encore dans les stocks du vendeur ou de l'utilisateur, doivent être liquidés.*

## *Certificats witeg-Diffico® pour les instruments volumétriques*

*Numéro du lot et H*
*Tous les instrument volumétriques Witeg-Diffico sont certifiés conforme et indiquent un numéro de batch digital facile à lire. Ils peuvent être fournis avec les certificats suivants:*

*Certificat de qualité (en usine)*
*disponible en lot ou individuel, seolon les normes DIN EN ISO 9001, DIN ISO 10012-1 et ISO 4787.*
*Le test initial est fait chez Witeg pour n'importe quel type d'instrument volumétrique certifié Diffico*

*Certificat de Lot*
*Tous les instruments et certificats d'un même lot de production portent le même numéro du lot Le certificat indique la valeur, la déviation standard et la date d'émission:*

**01.08.01 (Batch number)**

*Ce certificat est inclu gratuitement dans chaque paquet standard d'instruments volumétriques Classe A/AS de Witeg Diffico*

*Certificat individuel*
*Les instruments et les certificats portent en plus du numéro du lot un numéro de série individuel. Le volume individuel, les tolérances et la date d'émission sont mentionnées:*

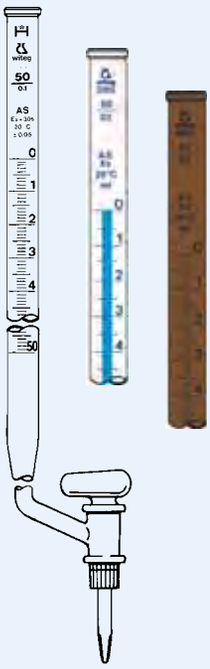
**01.08.0110 (*Lot et No. de série individuel*)**

*Si vous désirez commander ce certificat, veuillez svp faire suivre le numéro de l'article de la mention "IC"*

*Certificat de conformité*
*Avec cette marque Witeg certifie la conformité de l'instrument avec la réglementation métrologique allemande. La marque est imprimée sur les produits en conformité à la norme DIN 12600. Tous les instruments volumétriques de Witeg-Diffico sont certifiés conformes*

*Certificat officiel de conformité*
*Avec cette marque, le service de métrologie allemande confirme la conformité selon la réglementation métrologique allemande. La marque est imprimée sur les produits en conformité à la norme DIN 12600.*
*Si vous désirez commander ce certificat officiel de conformité, veuillez svp faire suivre le numéro de l'article de la mention "OC"*

*Witeg avait démarré aussitôt la réalisation des réglementations lorsqu'elles ont été lancées et avait commencé également à livrer les instruments avec la confirmité CE. Et Witeg remplie déjà toutes les demandes pour un marquage CE des produits IVD. Le marquage de ces produits peut démarrer dès que la législation l'aura finallement défini. Tous les autres produits médicaux exceptés les produits IVD doivent déjà porter aujourd'hui le marque CE*



**3.010.***4**
**-**
**3.014.***4**

**Burettes class AS, conformity certified,** main point ring graduation, with lateral stopcock, with solid ST-glass-plug, made of clear borosilicate glass

***Burettes graduées classe AS*** *certifiées conformes, en verre clair borosilicaté avec robinet latéral à clé en verre interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.010.104** |
| 25 | 0.05 | ± 0.03 | **3.010.254** |
| 50 | 0.10 | ± 0.05 | **3.010.504** |

**Schellbach blue line**

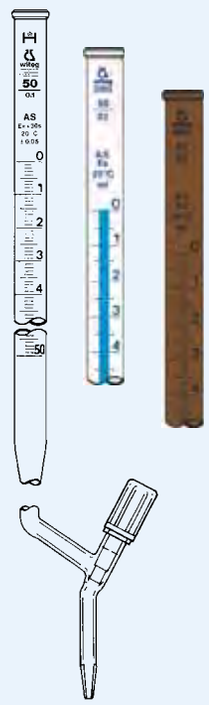
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.01 | **3.012.054** |
| 10 | 0.02 | ± 0.02 | **3.012.104** |
| 25 | 0.05 | ± 0.03 | **3.012.254** |
| 50 | 0.10 | ± 0.05 | **3.012.504** |
| 100 | 0.20 | ± 0.10 | **3.012.904** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.014.104** |
| 25 | 0.05 | ± 0.03 | **3.014.254** |
| 50 | 0.10 | ± 0.05 | **3.014.504** |



**3.010.***5**
**-**
**3.014.***5**

**Burettes class AS, conformity certified,** main point ring graduation, with lateral needle valve stopcock, with PTFE-needle valve, with overtwist device, made of clear borosilicate glass

***Burettes graduées classe AS*** *certifiées conformes, en verre clair borosilicaté avec robinet latéral à vanne à aiguille en Téflon (PTFE) interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.010.105** |
| 25 | 0.05 | ± 0.03 | **3.010.255** |
| 50 | 0.10 | ± 0.05 | **3.010.505** |

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.01 | **3.012.055** |
| 10 | 0.02 | ± 0.02 | **3.012.105** |
| 25 | 0.05 | ± 0.03 | **3.012.255** |
| 50 | 0.10 | ± 0.05 | **3.012.505** |
| 100 | 0.20 | ± 0.10 | **3.012.905** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.014.105** |
| 25 | 0.05 | ± 0.03 | **3.014.255** |
| 50 | 0.10 | ± 0.05 | **3.014.505** |

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***

**Burettes class AS, conformity certified,** main point ring graduation, with straight needle valve stopcock, with PTFE-needle valve, with overtwist device, made of clear borosilicate glass

***Burettes droites graduées classe AS*** *certifiées conformes, en verre clair borosilicaté à robinet avec vanne à aiguille en Téflon (PTFE) interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.020.107** |
| 25 | 0.05 | ± 0.03 | **3.020.257** |
| 50 | 0.10 | ± 0.05 | **3.020.507** |

**Schellbach blue line**

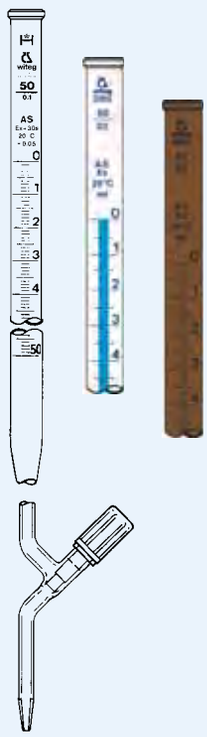
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.02 | ± 0.01 | **3.022.057** |
| 10 | 0.02 | ± 0.02 | **3.022.107** |
| 25 | 0.05 | ± 0.03 | **3.022.257** |
| 50 | 0.10 | ± 0.05 | **3.022.507** |
| 100 | 0.20 | ± 0.10 | **3.022.907** |

**Amber glass**

***En verre brun borosilicaté***

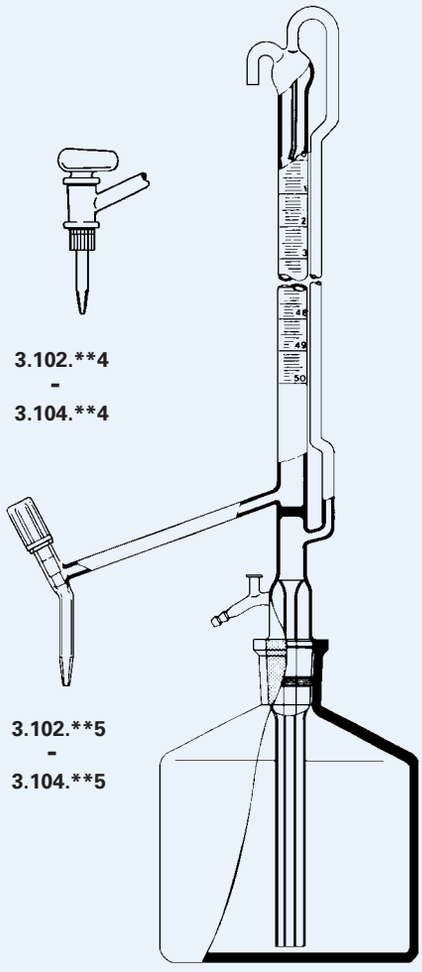
| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.024.107** |
| 25 | 0.05 | ± 0.03 | **3.024.257** |
| 50 | 0.10 | ± 0.05 | **3.024.507** |



**3.020.******7**
**-**
**3.024.******7**

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***



3.102.**4
-
3.104.**4

3.102.**5
-
3.104.**5



**Automatic burettes, Pellet class B**
short line graduation, without stopcock between burette and reservoir, with lateral stopcock, with solid ST-glass-plug, with 2 l reservoir bottle, without aspirator bulb, DURANborosilicate glass

***Burettes automatiques de Pellet, classe B,*** *sans robinet entre la burette et le flacon, avec robinet latéral à clé en verre plein interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.102.104** |
| 25 | 0.05 | ± 0.05 | **3.102.254** |
| 50 | 0.10 | ± 0.08 | **3.102.504** |
| 100 | 0.20 | ± 0.20 | **3.102.904** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.104.104** |
| 25 | 0.05 | ± 0.05 | **3.104.254** |
| 50 | 0.10 | ± 0.08 | **3.104.504** |
| 100 | 0.20 | ± 0.20 | **3.104.904** |

**Automatic burettes, Pellet class B,** short line graduation, without stopcock between burette and reservoir, with lateral neeldle valve stopcock, with PTFE-needle valve, with overtwist device, with 2 l reservoir bottle, without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe B,*** *sans robinet entre la burette et le flacon, avec robinet latéral à vanne à aiguille en téflon interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.102.105** |
| 25 | 0.05 | ± 0.05 | **3.102.255** |
| 50 | 0.10 | ± 0.08 | **3.102.505** |
| 100 | 0.20 | ± 0.20 | **3.102.905** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.104.105** |
| 25 | 0.05 | ± 0.05 | **3.104.255** |
| 50 | 0.10 | ± 0.08 | **3.104.505** |
| 100 | 0.20 | ± 0.20 | **3.104.905** |

**For the TITREX digital burettes, please refer to page 246**
*Pour les burettes digitales TITREX, se référer svp à la page 246*

**Automatic burettes, Pellet class B,** short line graduation, with stopcock, with hollow ST-glass-plug, between burette and reservoir, with lateral stopcock, with solid ST-glass-plug, with 2 l reservoir bottle, without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe B,*** *avec robinet à clé interchangeable en verre creux entre la burette et le flacon, robinet latéral à clé en verre plein interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

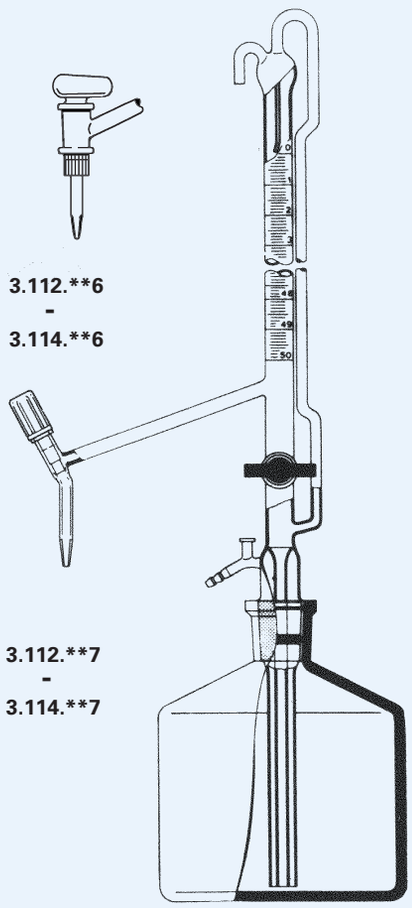
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.112.106** |
| 25 | 0.05 | ± 0.05 | **3.112.256** |
| 50 | 0.10 | ± 0.08 | **3.112.506** |
| 100 | 0.20 | ± 0.20 | **3.112.906** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.114.106** |
| 25 | 0.05 | ± 0.05 | **3.114.256** |
| 50 | 0.10 | ± 0.08 | **3.114.506** |
| 100 | 0.20 | ± 0.20 | **3.114.906** |



**3.112.******6**
**-**
**3.114.******6**

**3.112.******7**
**-**
**3.114.******7**

**Automatic burettes, Pellet class B,** short line graduation, with stopcock, with hollow ST-glass-plug, between burette and reservoir, with lateral needle valve, with PTFE-needle valve, with overtwist device, with 2 l reservoir bottle, without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe B,*** *avec robinet à clé interchangeable en verre creux entre la burette et le flacon, robinet latéral à vanne à aiguille en téflon interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.112.107** |
| 25 | 0.05 | ± 0.05 | **3.112.257** |
| 50 | 0.10 | ± 0.08 | **3.112.507** |
| 100 | 0.20 | ± 0.20 | **3.112.907** |

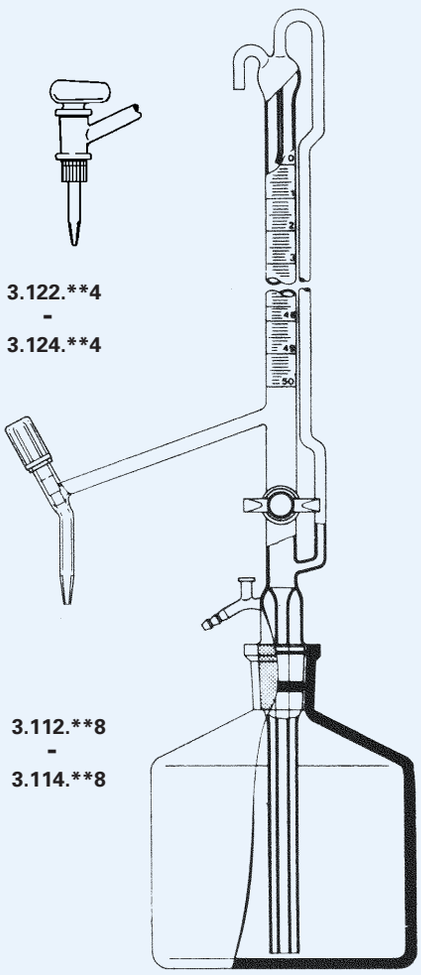
**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.114.107** |
| 25 | 0.05 | ± 0.05 | **3.114.257** |
| 50 | 0.10 | ± 0.08 | **3.114.507** |
| 100 | 0.20 | ± 0.20 | **3.114.907** |



**For the TITREX digital burettes, please refer to page 246**
*Pour les burettes digitales TITREX, se référer svp à la page 246*



3.122.**4
-
3.124.**4

3.112.**8
-
3.114.**8



**Automatic burettes, Pellet, class B,** short line graduation, with stopcock, with ST-PTFE-plug, between burette and reservoir, with lateral needle valve, with PTFE-needle valve, with overtwist device, with 2 l reservoir bottle, without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe B,*** *avec robinet à clé en téflon entre la burette et le flacon, robinet latéral à vanne à aiguille en téflon (PTFE) interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.112.108** |
| 25 | 0.05 | ± 0.05 | **3.112.258** |
| 50 | 0.10 | ± 0.08 | **3.112.508** |
| 100 | 0.20 | ± 0.20 | **3.112.908** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.03 | **3.114.108** |
| 25 | 0.05 | ± 0.05 | **3.114.258** |
| 50 | 0.10 | ± 0.08 | **3.114.508** |
| 100 | 0.20 | ± 0.20 | **3.114.908** |

**Automatic burettes, Pellet, class AS,** conformity certified, main point ring-graduation, without stopcock between burette and reservoir, with lateral stopcock, with solid ST-glass-plug, with 2 l reservoir bottle without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe AS*** *certifiée conforme, sans robinet entre la burette et le flacon, avec robinet latéral à clé en verre interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.122.104** |
| 25 | 0.05 | ± 0.03 | **3.122.254** |
| 50 | 0.10 | ± 0.05 | **3.122.504** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.124.104** |
| 25 | 0.05 | ± 0.03 | **3.124.254** |
| 50 | 0.10 | ± 0.05 | **3.124.504** |

**For the TITREX digital burettes, please refer to page 246**
*Pour les burettes digitales TITREX, se référer svp à la page 246*

**Automatic burettes, Pellet, class AS,** conformity certified, main point ring-graduation, without stopcock between burette and reservoir, with lateral needle valve stopcock, with PTFE-needle valve, with overtwist device, with 2 l reservoir bottle without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe AS*** *certifiée conforme, sans robinet entre la burette et le flacon, avec robinet latéral à vanne à aiguille en téflon interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.122.105** |
| 25 | 0.05 | ± 0.03 | **3.122.255** |
| 50 | 0.10 | ± 0.05 | **3.122.505** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.124.105** |
| 25 | 0.05 | ± 0.03 | **3.124.255** |
| 50 | 0.10 | ± 0.05 | **3.124.505** |

**Automatic burettes, Pellet, class AS,** conformity certified, main point ring-graduation, with stopcock, with hollow ST-glass-plug, between burette and reservoir, with lateral stopcock, with solid ST-glass-plug, with 2 l reservoir bottle, without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe AS*** *certifiée conforme, avec robinet entre la burette et le flacon à clé en verre creux interchangeable, robinet latéral à clé en verre interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

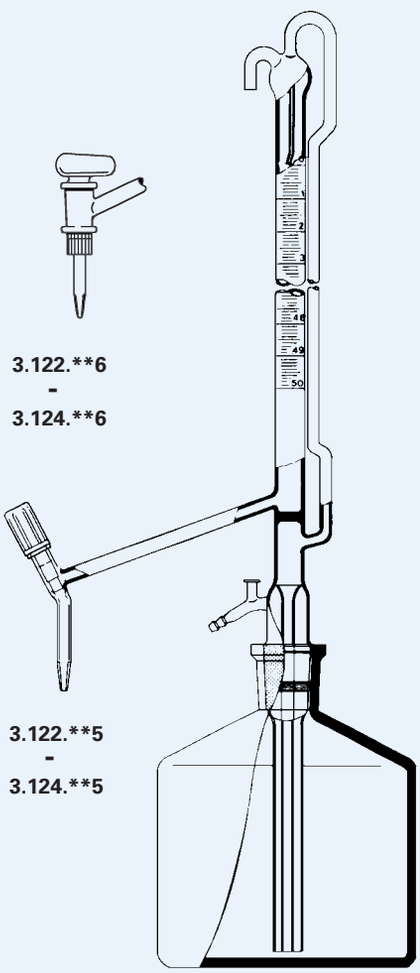
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.122.106** |
| 25 | 0.05 | ± 0.03 | **3.122.256** |
| 50 | 0.10 | ± 0.05 | **3.122.506** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.124.106** |
| 25 | 0.05 | ± 0.03 | **3.124.256** |
| 50 | 0.10 | ± 0.05 | **3.124.506** |



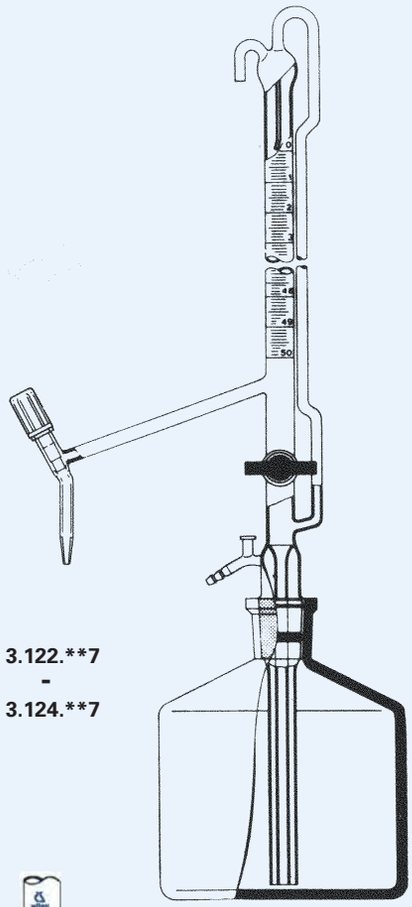
**3.122.******6**
**-**
**3.124.******6**

**3.122.******5**
**-**
**3.124.******5**

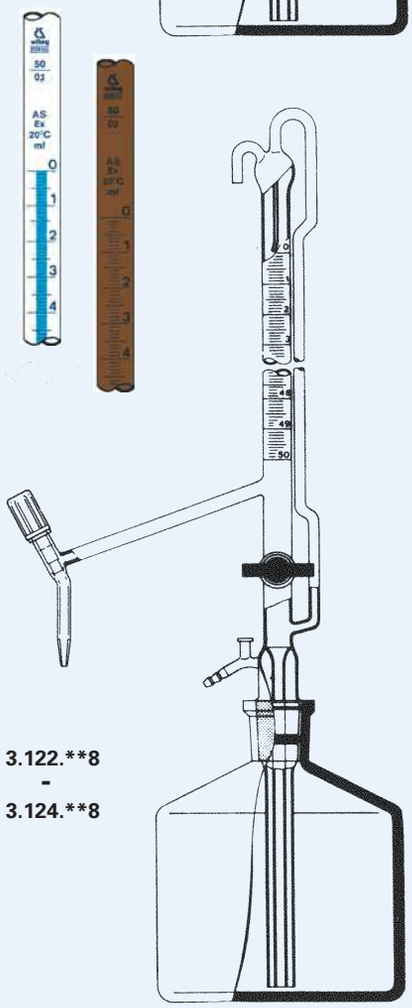


**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***



3.122.**7
-
3.124.**7



3.122.**8
-
3.124.**8

**Automatic burettes, Pellet, class AS,** conformity certified, main point ring-graduation, with stopcock, with hollow ST-glass-plug, between burette and reservoir, with lateral needle valve, with PTFE-needle valve, with overtwist device, with 2 l reservoir bottle, without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe AS*** *certifiée conforme, avec robinet à clé en verre creux interchangeable entre la burette et le flacon, robinet latéral à vanne à iguille en téflon interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.122.107** |
| 25 | 0.05 | ± 0.03 | **3.122.257** |
| 50 | 0.10 | ± 0.05 | **3.122.507** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.124.107** |
| 25 | 0.05 | ± 0.03 | **3.124.257** |
| 50 | 0.10 | ± 0.05 | **3.124.507** |

**For the TITREX digital burettes, please refer to page 246**
*Pour les burettes digitales TITREX, se référer svp à la page 246*

**Automatic burettes, Pellet, class AS,** conformity certified, main point ring-graduation, with stopcock, with ST-PTFE-plug, between burette and reservoir, with lateral needle valve, with PTFE-needle valve, with overtwist device, with 2 l reservoir bottle, without aspirator bulb, made of DURAN

***Burettes automatiques de Pellet, classe AS*** *certifiée conforme, avec robinet entre la burette et le flacon à clé en téflon interchangeable, robinet latéral à vanne à aiguille en téflon interchangeable et flacon de 2 litres en verre clair borosilicaté, mais sans poire en caoutchouc*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.122.108** |
| 25 | 0.05 | ± 0.03 | **3.122.258** |
| 50 | 0.10 | ± 0.05 | **3.122.508** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.124.108** |
| 25 | 0.05 | ± 0.03 | **3.124.258** |
| 50 | 0.10 | ± 0.05 | **3.124.508** |

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*

**Universal automatic burettes (DBGM), class AS, conformity certified, main point ring-graduation**
With this universal automatic burettes you can work with pressure or vacuum and fill in these ways the fluids into the measuring tube. The titration under vacuum has the advantage that no bubbles exist. We deliver as a separate part an aspirator bulb wich is usable for vacuum and for pressure. The construction of this automatic burette shows considerable mechanical strength against the conventional burettes. with amber stain graduations and inscriptions DIFFICO, resistant to alkalis and acids and abrasion. With 2 l reservoir bottle ST 29/32. All plugs with screw-thread retaining nuts.
**Delivery time 35 - 45 s, waiting time 30 s.**
**Made of borosilicate glass**

***Burettes graduées automatiques universelles, Classe AS certifiée conforme. Graduations et inscriptions en couleur marron.***
*En verre borosilicaté, avec ces burettes vous pouvez travailler sous pression ou sous vide et effectuer le remplissage dans le tube de mesure. En titrage sous vide il n'existe pas de bulles. Temps d'écoulement: 35-45 sec. et temps d'attente: 30 sec. Elles sont livrées avec un flacon de 2 litres à rodage normalisé 29/32, mais sans poire en caoutchouc*

**Universal automatic burettes, class AS,** conformity certified, main point ring-graduation, with lateral stopcock, with solid ST-glass plug, made of DURAN

***Burettes universelles automatiques Classe AS*** *certifiée conforme, en verre borosilicaté, avec robinet latéral à clé en verre plein interchangeable*

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.152.104** |
| 25 | 0.05 | ± 0.03 | **3.152.254** |
| 50 | 0.10 | ± 0.05 | **3.152.504** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.154.104** |
| 25 | 0.05 | ± 0.03 | **3.154.254** |
| 50 | 0.10 | ± 0.05 | **3.154.504** |

**Universal automatic burettes, class DIN-AS,** conformity certified, main point ring-graduation, with lateral needle valve stopcock, with PTFE-needle valve, made of DURAN

***Burettes universelles automatiques Classe AS*** *certifiée conforme, en verre borosilicaté, avec robinet latéral à vanne à aiguille en Télon (PTFE) interchangeable*

**Schellbach blue line**

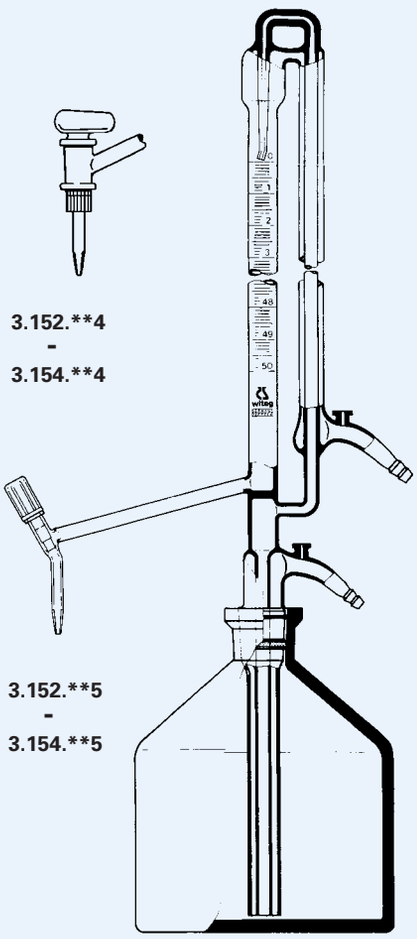
***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.152.105** |
| 25 | 0.05 | ± 0.03 | **3.152.255** |
| 50 | 0.10 | ± 0.05 | **3.152.505** |

**Amber glass**

***En verre brun borosilicaté***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.02 | ± 0.02 | **3.154.105** |
| 25 | 0.05 | ± 0.03 | **3.154.255** |
| 50 | 0.10 | ± 0.05 | **3.154.505** |

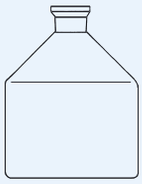


**3.152.***4**
**-**
**3.154.***4**

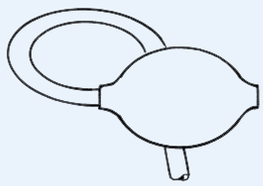
**3.152.***5**
**-**
**3.154.***5**



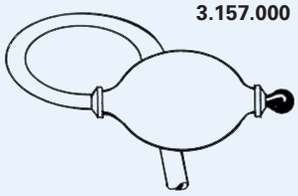
**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***



3.155.100
-
3.156.200



3.157.000



3.158.000

## Accessories for automatic burettes

*Accessoires pour les burettes automatiques*

| | Order No.<br>*N° de code* |
|---|---|
| Reservoir bottle 1 l, ST 29/32, clear glass<br>*Flacon de 1 litre en verre clair RN 29/32* | **3.155.100** |
| Reservoir bottle 2 l, ST 29/32, clear glass<br>*Flacon de 2 litres en verre clair RN 29/32* | **3.155.200** |
| Reservoir bottle 1 l, ST 29/32, amber glass<br>*Flacon de 1 litre en verre brun RN 29/32* | **3.156.100** |
| Reservoir bottle 2 l, ST 29/32, amber glass<br>*Flacon de 2 litre en verre brun RN 29/32* | **3.156.200** |
| Aspirator bulb for pressure<br>*Poire en caouthouc pour pression* | **3.157.000** |
| Aspirator bulb for vacuum<br>*Poire en caouthouc pour pression* | **3.158.000** |
| Double suction bulb with net, made of PVC, black natural rubber, Size 5 | **3.159.100** |

**Burettes, Daffert Pattern, class B, short line graduation** with automatic zero point - with blue chemical resistant graduations and inscriptions. All plugs are screw thread retaining nuts. Better than class B accuracy. **Delivery time 30 - 100 s, without waiting time Made of DURAN**

***Burettes droites à zéro automatique en haut, Classe B*** *en verre borosilicaté, graduations et inscriptions en couleur bleu.* ***Temps d'écoulement: 30-100 sec., sans temps d'attente***

**Burettes, Daffert, class B,** short line graduation, with two-way stopcock, with solid ST-glass plug

***Burettes droites graduées à zéro automatique en haut, Classe B,*** *en verre clair borosilicaté, avec robinet à 2 voies à clé interchangeable*

**Clear glass**

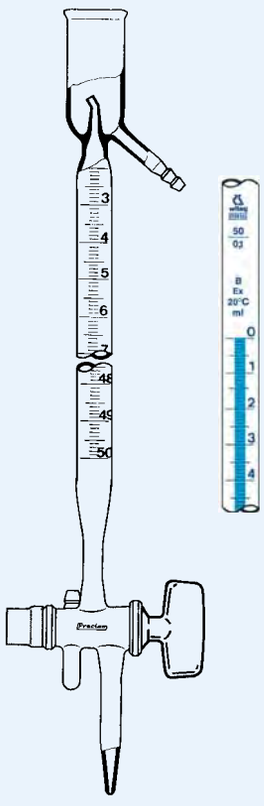
***En verre plein***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.05 | ± 0.04 | **3.300.256** |
| 50 | 0.10 | ± 0.08 | **3.300.506** |

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.05 | ± 0.04 | **3.302.256** |
| 50 | 0.10 | ± 0.08 | **3.302.506** |



3.300.**6

**Burettes, Daffert, class B,** short line graduation, with two-way stopcock, with ST-PTFEplug

***Burettes droites graduées à zéro automatique en haut, Classe B,*** *en verre clair borosilicaté, avec robinet à 2 voies à clé en Téflon (PTFE) interchangeable*

**Clear glass**

***En verre plein***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.05 | ± 0.04 | **3.300.257** |
| 50 | 0.10 | ± 0.08 | **3.300.507** |

**Schellbach blue line**

***Avec bande en émail bleu (Schellbach)***

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.05 | ± 0.04 | **3.302.257** |
| 50 | 0.10 | ± 0.08 | **3.302.507** |

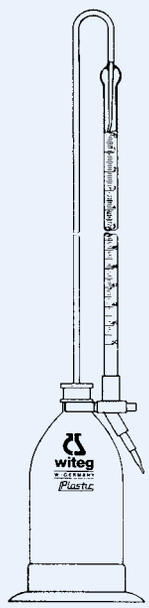
**Automatic burettes, acc to Dr. Schilling, class B, short line graduation, with Schellbach blue line,** new model, with push button enabling a prcise titration, complete with Polyethylene reservoir, included a stable base. Automatic zero point Pellet type. Amber stain DIFFICO-graduations and inscriptions. soda lime-glass. The burette is filled by thumb or finger pressure. Better than class B accuracy. **Delivery time 20 - 100 s, without waiting time**
**Made of Borosilicate glass**

***Burettes automatiques de Schilling, classe B,*** *à bande en émail bleu de Schellbach, nouvelle version avec bouton à poussoir, complètes avec flacon en polyéthylène sur socle et burette en verre clair de chimie à graduations en couleur marron.* ***Temps d'écoulement: 30-60 sec. sans temps d'attente***

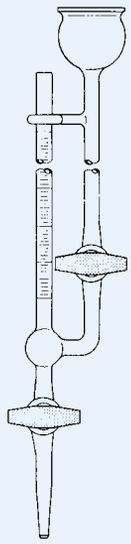
| **Capacity**<br>***Capacité***<br>**ml** | **Division**<br>***Division***<br>**ml** | **Tolerance**<br>***Tolérance***<br>**ml** | **Order No.**<br>***N° de code*** |
|---|---|---|---|
| 5 | 0.02 | ± 0.02 | **3.312.005** |
| 10 | 0.05 | ± 0.05 | **3.312.010** |
| 15 | 0.10 | ± 0.04 | **3.312.015** |
| 25 | 0.10 | ± 0.10 | **3.312.025** |
| 50 | 0.10 | ± 0.10 | **3.312.050** |

Spare parts / *Pièces de rechange*

| | |
|---|---|
| Burettes, 5 ml : 0.05 ml<br>*Burettes, 5 ml : 0.05 ml* | **3.313.005** |
| Burettes, 10 ml : 0.02 ml<br>*Burettes, 10 ml : 0.02 ml* | **3.313.010** |
| Burettes, 15 ml : 0.10 ml<br>*Burettes, 15 ml : 0.10 ml* | **3.313.015** |
| Burettes, 25 ml : 0.10 ml<br>*Burettes, 25 ml : 0.10 ml* | **3.313.025** |
| Burettes, 50 ml : 0.10 ml<br>*Burettes, 50 ml : 0.10 ml* | **3.313.050** |
| Reservoir bottle, Polyethylene, 500 ml, for burettes 5 - 15 ml<br>*Flacon en polyéthylène de 500 ml pour burettes de 5 à 15 ml* | **3.314.015** |
| Reservoir bottle, Polyethylene, 1000 ml, for burettes 25 - 50 ml<br>*Flacon en polyéthylène de 100 ml pour burettes de 25 à 50 ml* | **3.314.050** |
| Plastic armature, for burettes 5 - 15 ml<br>*Armature en plastique pour burettes de 5 à 15 ml* | **3.315.015** |
| Plastic armature, for burettes 25 - 50 ml<br>*Armature en plastique pour burettes de 25-50 ml* | **3.315.050** |
| Plastic base, for reservoir bottle 500 ml<br>*Socle en plastique pour flacon de 500 ml* | **3.316.015** |
| Plastic base, for reservoir bottle 1000 ml<br>*Socle en plastique pour flacon de 1000 ml* | **3.316.050** |




**3.312.*****



3.352.**3

**Micro burettes, acc. to DIN 12700,** with amber stain DIFFICO-graduation, **with Schellbach blue line,** all plugs with screw thread retaining nuts, m**ade of DURAN,** delivery time 10 - 95 s, without waiting time

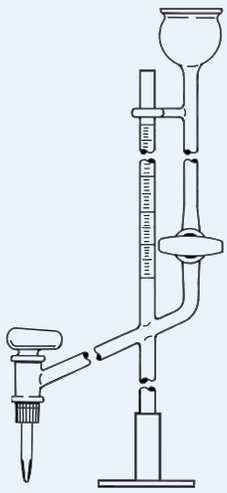
***Microburettes selon DIN 12700*** *à bande en émail bleu de Schellbach et graduations en couleur marron, en verre clair borosilicaté. Temps d'écoulement 10 - 95 sec., sans temps d'attente*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.01 | ± 0.02 | **3.352.012** |
| 2 | 0.01 | ± 0.02 | **3.352.022** |
| 5 | 0.02 | ± 0.02 | **3.352.052** |
| 10 | 0.02 | ± 0.03 | **3.352.102** |

**Micro burettes, Bang, class B,** short line graduation, with stopcocks, with ST-PTFE-plugs

***Microburettes droites de Bang, classe B,*** *avec robinets à clés en Téflon (PTFE) interchangeables*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 0.01 | ± 0.02 | **3.352.023** |
| 5 | 0.02 | ± 0.02 | **3.352.053** |
| 10 | 0.02 | ± 0.03 | **3.352.103** |



3.363.**2

**Micro burettes, Bang, class B,** short line graduation, with lateral stopcock, with ST-glass plugs

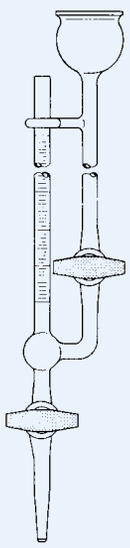
***Microburettes de Bang, classe B,*** *avec robinet latéral à clés en verre interchangeables et socle*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.01 | ± 0.02 | **3.363.012** |
| 2 | 0.01 | ± 0.02 | **3.363.022** |
| 5 | 0.02 | ± 0.02 | **3.363.052** |
| 10 | 0.02 | ± 0.03 | **3.363.102** |

**Micro burettes, Bang, class B,** short line graduation, with lateral stopcock, with ST-PTFE-plugs

***Microburettes de Bang, classe B,*** *avec robinet latéral à clés en Téflon (PTFE) interchangeables et socle*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 0.01 | ± 0.02 | **3.363.023** |
| 5 | 0.02 | ± 0.02 | **3.363.053** |
| 10 | 0.02 | ± 0.03 | **3.363.103** |



3.372.**3

**Micro burettes, Bang, class AS,** for officially testing, main point ring-graduation, with stopcocks, with ST-glass plugs

***Microburettes droite de Bang, classe AS*** *certifiée conforme, avec robinets à clé en verre interchangeables*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.01 | ± 0.006 | **3.372.012** |
| 2 | 0.01 | ± 0.01 | **3.372.022** |
| 5 | 0.02 | ± 0.01 | **3.372.052** |
| 10 | 0.02 | ± 0.02 | **3.372.102** |

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*

**Micro burettes, Bang, class AS,** for officially testing, main point ring-graduation, with lateral needle valve stopcocks, with PTFE-needle valve

***Microburettes de Bang, classe AS*** *certifiée conforme, avec robinet latéral à vanne à aiguille en Téflon (PTFE) interchangeables*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 0.01 | ± 0.01 | **3.372.023** |
| 5 | 0.02 | ± 0.01 | **3.372.053** |
| 10 | 0.02 | ± 0.02 | **3.372.103** |

**Micro burettes, Bang, class class AS,** short line graduation, with stopcocks, with ST-glass plugs

***Microburettes droite de Bang, classe AS,*** *avec robinets à clé en verre interchangeables*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.01 | ± 0.006 | **3.383.012** |
| 2 | 0.01 | ± 0.01 | **3.383.022** |
| 5 | 0.02 | ± 0.01 | **3.383.052** |
| 10 | 0.02 | ± 0.02 | **3.383.102** |

**Micro burettes, Bang, class class AS,** short line graduation, with lateral stopcock, with ST-PTFE-plugs

***Microburettes de Bang, classe AS,*** *avec robinet latéral à clé en en Téflon (PTFE) interchangeables et socle*

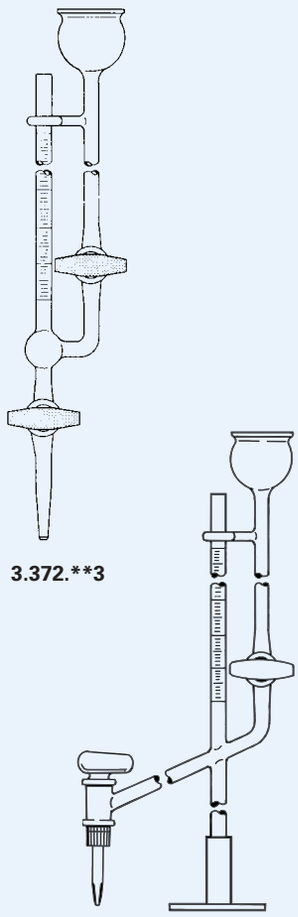
| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.01 | ± 0.006 | **3.383.013** |
| 2 | 0.01 | ± 0.01 | **3.383.023** |
| 5 | 0.02 | ± 0.01 | **3.383.053** |
| 10 | 0.02 | ± 0.02 | **3.383.103** |

**Micro burettes, Bang, class class AS,** short line graduation, with lateral stopcock, with PTFE needle valve

***Microburettes de Bang, classe AS,*** *avec robinet latéral à clé à vanne à aiguille en Téflon (PTFE) et socle*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 0.01 | ± 0.01 | **3.383.025** |
| 5 | 0.02 | ± 0.01 | **3.383.055** |
| 10 | 0.02 | ± 0.02 | **3.383.105** |

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*



**3.372.***3**



**3.383.***2**

## Pipettes
## *Pipettes*

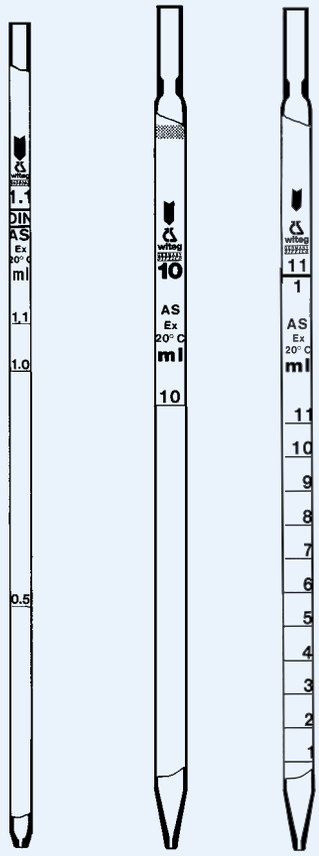
**Graduated pipettes „Shortie“, class AS, main point ring-graduation** with amber stain DIFFICO graduations and inscriptions, with tempered tips offering a wear resistance, which is up to seven times better than that of conventional pipette delivery tips Overall length 170 mm, „blow-out“, zero at the tip.
With mouth-piece for cotton plugging

***Pipettes graduées courtes, classe AS certifiée conforme*** *avec graduations et inscriptions en couleur marron à zéro en bas, avec embout pour cotonnage, longueur totale 170 mm*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.1 | 0.01 | ± 0.005 | | **3.405.001** |
| 0.2 | 0.01 | ± 0.008 | | **3.405.002** |
| 1 | 0.02 | ± 0.020 | | **3.405.102** |
| 1 | 0.10 | ± 0.020 | | **3.405.110** |
| 2 | 0.10 | ± 0.030 | | **3.405.210** |
| 5 | 0.10 | ± 0.080 | | **3.405.510** |
| 10 | 0.20 | ± 0.120 | | **3.405.710** |




**3.405.*****



3.410.115 3.410.710 3.410.711

**Bacteriological pipettes (milk pipettes), class AS,** main point ring-graduation, with amber stain DIFFICO graduations and inscriptions. Tempered exremely wide delivery tips offering a wear resistance

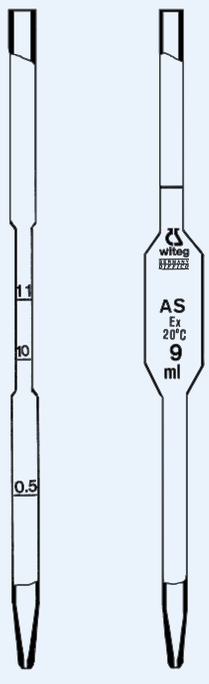
***Pipettes bactériologiques (pour lait), classe AS*** *certifiée conforme avec graduations et inscriptions en couleur marron*

| Capacity *Capacité* ml | Marks at ml | Tolerance *Tolérance* ml | Color-code *Code-couleur* | Order No. *N° de code* |
|---|---|---|---|---|
| 1 | 1.0 | ± 0.025 | ● | **3.410.100** |
| 1.1 | 1.1-1.0 | ± 0.025 | ● 2 x | **3.410.110** |
| 1.0 | 0.1 | ± 0.01 | - | **3.410.111** |
| 1.1 | 1.1-1.0-0.5 | ± 0.025 | - | **3.410.115** |
| 1.2 | 1.2-1.1-1.0-0.5 | ± 0.025 | - | **3.410.121** |
| 2.0 | 0.1 | ± 0.01 | - | **3.410.210** |
| 2.2 | 2.2-2.1-2.0-1.0 | ± 0.04 | - | **3.410.221** |
| 5.0 | 0.1 | ± 0.04 | - | **3.410.510** |
| 10 | 10 | ± 0.10 | ● | **3.410.710** |
| 11 | each 1.0 | ± 0.10 | - | **3.410.711** |

**Demeter pipettes (milk pipettes - diluting pipettes),** with constriction in the middle piece, with wide tempered delivery tips

***Pipettes à lait et de dilution*** *avec embout d'écoulement à large ouverture*

| Capacity *Capacité* ml | Marks at ml | Order No. *N° de code* |
|---|---|---|
| 1.1 | 1.1-1.0-0.5 | **3.415.115** |
| 2.2 | 2.2-2.1-2.0-1.0 | **3.415.221** |



3.415.115 3.420.090

**Volumetric pipettes for determination of milk and cream, acc. to national standards,** with amber stain DIFFICO graduations and inscriptions an marks, with tempered delivery tips
**E = officially tested and stamped**

***Pipettes jaugées pour la détermination du lait et de la crème selon les normes,*** *à graduations et inscriptions en couleur marron.*
***E = certifiées conformes avec certificat***

| Capacity *Capacité* ml | National Norm | Order No. *N° de code* |
|---|---|---|
| 10.75 | DIN 12837 | **3.420.075** |
| 10.75 | DIN 12837 E | **3.420.080** |
| 10.94 | BS 696 | **3.420.094** |
| 11.00 | - | **3.420.100** |
| 11.00 | E | **3.420.110** |
| 9.00 | ASTM | **3.420.090** |
| 17.60 | ASTM | **3.420.176** |
| 18.00 | ASTM | **3.420.180** |

Graduated pipettes, class B, short line graduation, with ISO-COLOR-CODE, acc. to DIN EN ISO 835, with amber stain DIFFICO-graduations and inscriptions, better than class DIN-B accuracy. Tempered delivery tips offering a wear resistance which is up to seven times better than that of conventional pipette delivery tips. Sizes 5 ml and up with construction in the suction to hold cotton plug. Without waiting time

***Pipettes graduées en verre, classe B, avec code de couleur EN ISO 835*** *avec graduations et inscriptions en couleur marron. A partir d'un volume de 5 ml, l'embout supérieur est concu pour être contonné.* ***Sans temps d'attente***

**Graduated pipettes, measuring,** complete swift delivery, 0-point top, graduation DIFFICO-brown or DIFFICO-white

***Pipettes graduées*** *en verre, graduation DIFFICO marron ou graduation DIFFICO blanche*

| Capacity | Division | Tolerance | Colour-code | adjust. to | delivery time | Order No. | Order No. |
|---|---|---|---|---|---|---|---|
| *Capacité* | *Division* | *Tolérance* | *Code-couleur* | | | *N° de code* | *N° de code* |
| ml | ml | ml | | | s | DIFFICO brown | DIFFICO white |
| 0.1 | 0.001 | ± 0.01 | 2 x | | 2 - 12 | **3.500.011** | - |
| 0.2 | 0.001 | ± 0.01 | 2 x | | 2 - 12 | **3.500.021** | - |
| 0.2 | 0.002 | ± 0.01 | 2 x | | 2 - 12 | **3.500.022** | - |
| 0.5 | 0.01 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.500.051** | - |
| 1 | 0.01 | ± 0.01 | | Ex | 2 - 12 | **3.500.101** | **3.500.101 W** |
| 1 | 0.1 | ± 0.01 | | Ex | 2 - 12 | **3.500.110** | **3.500.110 W** |
| 2 | 0.01 | ± 0.015 | 2 x | Ex | 2 - 12 | **3.500.201** | **3.500.201 W** |
| 2 | 0.02 | ± 0.015 | | Ex | 2 - 12 | **3.500.202** | **3.500.202 W** |
| 2 | 0.1 | ± 0.015 | | Ex | 2 - 12 | **3.500.210** | **3.500.210 W** |
| 5 | 0.05 | ± 0.04 | | Ex | 5 - 15 | **3.500.505** | **3.500.505 W** |
| 5 | 0.1 | ± 0.04 | | Ex | 5 - 15 | **3.500.510** | **3.500.510 W** |
| 10 | 0.1 | ± 0.08 | | Ex | 5 - 15 | **3.500.710** | **3.500.710 W** |
| 20 | 0.1 | ± 0.15 | 2 x | Ex | 9 - 20 | **3.500.810** | **3.500.810 W** |
| 25 | 0.1 | ± 0.2 | | Ex | 9 - 20 | **3.500.910** | **3.500.910 W** |
| 50 | 0.5 | ± 0.4 | | Ex | - | **3.500.950** | - |

**Graduated pipettes, SAFETY TOP,** with construction in the suction to hold cotton plug, graduation DIFFICO-brown

***Pipettes graduées, TOP SECURITE,*** *l'embout supérieur peut-être concu pour le cotonnage, graduation DIFFICO marron*

| Capacity | Division | Tolerance | Colour-code | adjust. to | delivery time | Order No. |
|---|---|---|---|---|---|---|
| *Capacité* | *Division* | *Tolérance* | *Code-couleur* | | | *N° de code* |
| ml | ml | ml | | | s | |
| 0.1 | 0.001 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.500.011 S** |
| 0.2 | 0.001 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.500.021 S** |
| 0.2 | 0.002 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.500.022 S** |
| 0.5 | 0.01 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.500.051 S** |
| 1 | 0.01 | ± 0.01 | | Ex | 2 - 12 | **3.500.101 S** |
| 1 | 0.1 | ± 0.01 | | Ex | 2 - 12 | **3.500.110 S** |
| 2 | 0.01 | ± 0.015 | 2 x | Ex | 2 - 12 | **3.500.201 S** |
| 2 | 0.02 | ± 0.015 | | Ex | 2 - 12 | **3.500.202 S** |
| 2 | 0.1 | ± 0.015 | | Ex | 2 - 12 | **3.500.210 S** |

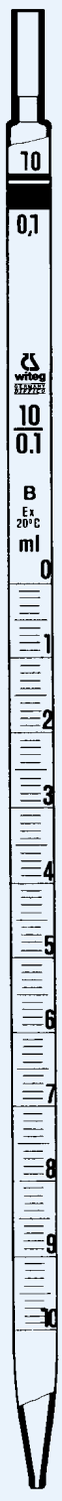
**Graduated pipettes, measuring,** for partial delivery, 0-point top, DIFFICO-brown

***Pipettes graduées en verre,*** *pour écoulement partiel, graduation DIFFICO marron*

| Capacity | Division | Tolerance | Colour-code | adjust. to | delivery time | Order No. |
|---|---|---|---|---|---|---|
| *Capacité* | *Division* | *Tolérance* | *Code-couleur* | | | *N° de code* |
| ml | ml | ml | | | s | |
| 0.5 | 0.01 | ± 0.008 | 3 x | Ex | 2 - 12 | **3.505.051** |
| 1 | 0.01 | ± 0.008 | 2 x | Ex | 2 - 12 | **3.505.101** |
| 1 | 0.1 | ± 0.008 | 2 x | Ex | 2 - 12 | **3.505.110** |
| 2 | 0.01 | ± 0.015 | 3 x | Ex | 2 - 12 | **3.505.201** |
| 2 | 0.02 | ± 0.015 | 2 x | Ex | 2 - 12 | **3.505.202** |
| 2 | 0.1 | ± 0.015 | 2 x | Ex | 2 - 12 | **3.505.210** |
| 5 | 0.05 | ± 0.040 | 2 x | Ex | 5 - 15 | **3.505.505** |
| 5 | 0.1 | ± 0.040 | 2 x | Ex | 5 - 15 | **3.505.510** |
| 10 | 0.1 | ± 0.080 | 2 x | Ex | 5 - 15 | **3.505.710** |
| 20 | 0.1 | ± 0.150 | 3 x | Ex | 9 - 20 | **3.505.810** |
| 25 | 0.1 | ± 0.150 | 2 x | Ex | 9 - 20 | **3.505.910** |




**3.500.*****



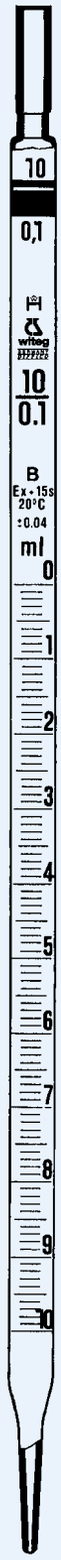

**3.505.*****

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*




3.505.***




3.507.***

**Graduated pipettes, SAFETY TOP**, with construction in the suction to hold cotton plug, for partial delivery, 0-point top, graduation DIFFICO-brown

***Pipettes graduées en verre, SAFETY TOP,*** *l'embout supérieur peut-être concu pour le cotonnage, pour écoulement partiel, graduation DIFFICO marron*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.5 | 0.01 | ± 0.008 | 3 x | Ex | 2 - 12 | **3.505.051 S** |
| 1 | 0.01 | ± 0.008 | 2 x | Ex | 2 - 12 | **3.505.101 S** |
| 1 | 0.1 | ± 0.008 | 2 x | Ex | 2 - 12 | **3.505.110 S** |
| 2 | 0.01 | ± 0.015 | 3 x | Ex | 2 - 12 | **3.505.201 S** |
| 2 | 0.02 | ± 0.015 | 2 x | Ex | 2 - 12 | **3.505.202 S** |
| 2 | 0.1 | ± 0.015 | 2 x | Ex | 2 - 12 | **3.505.210 S** |

**Pipettes for enzymatic analysis,** class B, graduation DIFFICO-brown

***Pipettes pour analyses enzymatiques,*** *class B, en verre, graduation DIFFICO marron*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.1 | 0.001 | ± 0.01 | In | 2 - 12 | **3.507.011** |
| 0.2 | 0.001 | ± 0.01 | In | 2 - 12 | **3.507.021** |
| 0.5 | 0.01 | ± 0.01 | Ex | 2 - 12 | **3.507.051** |
| 1 | 0.01 | ± 0.01 | Ex | 2 - 12 | **3.507.101** |
| 2 | 0.02 | ± 0.015 | Ex | 2 - 12 | **3.507.202** |
| 5 | 0.05 | ± 0.04 | Ex | 5 - 15 | **3.507.505** |
| 10 | 0.1 | ± 0.08 | Ex | 5 - 15 | **3.507.710** |

## Volumetric instruments by Witeg



Graduated pipettes, class AS, conformity certified, main point ring graduation, with ISO-COLOR-CODE, acc. to DIN EN ISO 385, with amber stain DIFFICO-graduations and inscriptions. Tempered delivery tips offering a wear resistance which is up to seven times better than that of conventional pipette delivery tips. Sizes 5 ml and p with construction in the suction to hold cotton plug. Waiting time 5 s

***Pipettes graduées en verre, classe AS certifiée conforme, selon DIN EN ISO 385,*** *avec code-couleur, graduations et inscriptions en couleur marron (disponibles aussi avec graduations bleu). A partir d'un volume de 5 ml, l'embout supérieur est concu pour être contonné.* ***Temps d'attente 5 sec.***

**Graduated pipettes, measuring,** for complete swift delivery, DIFFICO brown

***Pipettes graduées en verre borosilicaté,*** *avec code-couleur, graduations et inscriptions en couleur marron. Ecoulement total*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Color-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.1 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.011** |
| 0.2 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.021** |
| 0.2 | 0.002 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.022** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.510.051** |
| 1 | 0.01 | ± 0.007 | | Ex | 4 - 10 | **3.510.101** |
| 1 | 0.1 | ± 0.007 | | Ex | 4 - 10 | **3.510.110** |
| 2 | 0.01 | ± 0.010 | 2 x | Ex | 4 - 10 | **3.510.201** |
| 2 | 0.02 | ± 0.010 | | Ex | 4 - 10 | **3.510.202** |
| 2 | 0.1 | ± 0.010 | | Ex | 4 - 10 | **3.510.210** |
| 5 | 0.05 | ± 0.030 | | Ex | 7 - 13 | **3.510.505** |
| 5 | 0.1 | ± 0.030 | | Ex | 7 - 13 | **3.510.510** |
| 10 | 0.1 | ± 0.050 | | Ex | 7 - 13 | **3.510.710** |
| 20 | 0.1 | ± 0.100 | 2 x | Ex | 11 - 17 | **3.510.810** |
| 25 | 0.1 | ± 0.100 | | Ex | 11- 17 | **3.510.910** |
| 50 | 0.5 | ± 0.200 | | Ex | - | **3.510.950** |
| **Graduations and inscriptions DIFFICO blue /** ***Graduations et inscriptions en couleur bleu*** | | | | | | |
| 0.1 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.011 BL** |
| 0.2 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.021 BL** |
| 0.2 | 0.002 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.022 BL** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.510.051 BL** |
| 1 | 0.01 | ± 0.007 | | Ex | 4 - 10 | **3.510.101 BL** |
| 1 | 0.1 | ± 0.007 | | Ex | 4 - 10 | **3.510.110 BL** |
| 2 | 0.01 | ± 0.010 | 2 x | Ex | 4 - 10 | **3.510.201 BL** |
| 2 | 0.02 | ± 0.010 | | Ex | 4 - 10 | **3.510.202 BL** |
| 2 | 0.1 | ± 0.010 | | Ex | 4 - 10 | **3.510.210 BL** |
| 5 | 0.05 | ± 0.030 | | Ex | 7 - 13 | **3.510.505 BL** |
| 5 | 0.1 | ± 0.030 | | Ex | 7 - 13 | **3.510.510 BL** |
| 10 | 0.1 | ± 0.050 | | Ex | 7 - 13 | **3.510.710 BL** |
| 20 | 0.1 | ± 0.100 | 2 x | Ex | 11 - 17 | **3.510.810 BL** |
| 25 | 0.1 | ± 0.100 | | Ex | 11- 17 | **3.510.910 BL** |
| 50 | 0.5 | ± 0.200 | | Ex | - | **3.510.950 BL** |

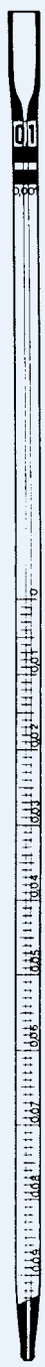



**3.510.*****

**Graduated pipettes, SAFETY TOP**, with construction in the suction to hold cotton plug, measuring, for complete swift delivery, DIFFICO brown

***Pipettes graduées, SAFETY TOP****, l'embout supérieur peut-être concu pour le cotonnage, avec code-couleur, graduations et inscriptions en graduation DIFFICO marron. Ecoulement total, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Color-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.1 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.011 S** |
| 0.2 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.021 S** |
| 0.2 | 0.002 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.022 S** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.510.051 S** |
| 1 | 0.01 | ± 0.007 | | Ex | 4 - 10 | **3.510.101 S** |
| 1 | 0.1 | ± 0.007 | | Ex | 4 - 10 | **3.510.110 S** |
| 2 | 0.01 | ± 0.010 | 2 x | Ex | 4 - 10 | **3.510.201 S** |
| 2 | 0.02 | ± 0.010 | | Ex | 4 - 10 | **3.510.202 S** |
| 2 | 0.1 | ± 0.010 | | Ex | 4 - 10 | **3.510.210 S** |

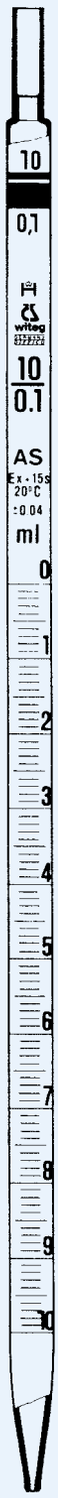



***.***.*** S**

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*




**3.510.*****




**3.515.*****

Graduated pipettes, class AS, conformity certified, main point ring graduation, with ISO-COLOR-CODE, acc. to DIN EN ISO 385, with amber stain DIFFICO-graduations and inscriptions. Tempered delivery tips offering a wear resistance which is up to seven times better than that of conventional pipette delivery tips. Sizes 5 ml and up with construction in the suction to hold cotton plug. **Waiting time 5 s**

***Pipettes graduées en verre, classe AS certifiée conforme, selon DIN EN ISO 385,*** *avec code-couleur, graduations et inscriptions en DIFFICO marron (disponibles aussi avec graduations bleu) . A partir d'un volume de 5 ml, l'embout supérieur est concu pour être contonné.* ***Temps d'attente 5 sec.***

**Graduated pipettes, measuring,** for complete swift delivery, DIFFICO brown

***Pipettes graduées en verre borosilicaté,*** *avec code-couleur, graduations et inscriptions en couleur marron. Ecoulement total*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Color-code<br>*Code-couleur* | adjust. to<br>Ex | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.1 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.011** |
| 0.2 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.021** |
| 0.2 | 0.002 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.022** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.510.051** |
| 1 | 0.01 | ± 0.007 | | Ex | 4 - 10 | **3.510.101** |
| 1 | 0.1 | ± 0.007 | | Ex | 4 - 10 | **3.510.110** |
| 2 | 0.01 | ± 0.010 | 2 x | Ex | 4 - 10 | **3.510.201** |
| 2 | 0.02 | ± 0.010 | | Ex | 4 - 10 | **3.510.202** |
| 2 | 0.1 | ± 0.010 | | Ex | 4 - 10 | **3.510.210** |
| 5 | 0.05 | ± 0.030 | | Ex | 7 - 13 | **3.510.505** |
| 5 | 0.1 | ± 0.030 | | Ex | 7 - 13 | **3.510.510** |
| 10 | 0.1 | ± 0.050 | | Ex | 7 - 13 | **3.510.710** |
| 20 | 0.1 | ± 0.100 | 2 x | Ex | 11 - 17 | **3.510.810** |
| 25 | 0.1 | ± 0.100 | | Ex | 11- 17 | **3.510.910** |
| 50 | 0.5 | ± 0.200 | | Ex | - | **3.510.950** |
| With construction in the suction to hold cotton plug, please add *.***.*** S<br>*Avec embout concu pour le cotonnage, veuillez faire suivre le N° de code de la lettre "S"* | | | | | | |
| **Graduations and inscriptions DIFFICO blue / *Graduations et inscriptions en couleur bleu*** | | | | | | |
| 0.1 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.011 BL** |
| 0.2 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.021 BL** |
| 0.2 | 0.002 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.510.022 BL** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.510.051 BL** |
| 1 | 0.01 | ± 0.007 | | Ex | 4 - 10 | **3.510.101 BL** |
| 1 | 0.1 | ± 0.007 | | Ex | 4 - 10 | **3.510.110 BL** |
| 2 | 0.01 | ± 0.010 | 2 x | Ex | 4 - 10 | **3.510.201 BL** |
| 2 | 0.02 | ± 0.010 | | Ex | 4 - 10 | **3.510.202 BL** |
| 2 | 0.1 | ± 0.010 | | Ex | 4 - 10 | **3.510.210 BL** |
| 5 | 0.05 | ± 0.030 | | Ex | 7 - 13 | **3.510.505 BL** |
| 5 | 0.1 | ± 0.030 | | Ex | 7 - 13 | **3.510.510 BL** |
| 10 | 0.1 | ± 0.050 | | Ex | 7 - 13 | **3.510.710 BL** |
| 20 | 0.1 | ± 0.100 | 2 x | Ex | 11 - 17 | **3.510.810 BL** |
| 25 | 0.1 | ± 0.100 | | Ex | 11- 17 | **3.510.910 BL** |
| 50 | 0.5 | ± 0.200 | | Ex | - | **3.510.950 BL** |

**New Pipette 0-Point In TheTip, see page 192**
***Nouvelles pipettes avec zéro en haut, veuillez vous référer à la page 192***

**Graduated pipettes, measuring,** for partial delivery, DIFFICO brown

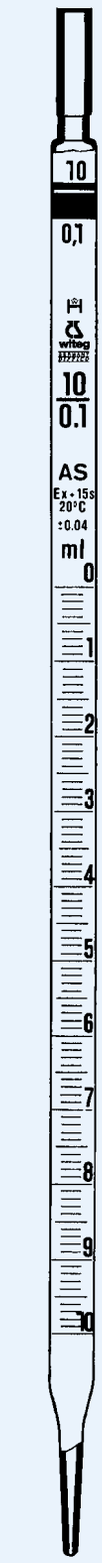
***Pipettes graduées en verre borosilicaté, classe AS*** *avec code-couleur, graduations et inscriptions en couleur marron. Ecoulement partiel*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | adjust. to<br>Ex | delivery time<br>s | Order No.<br>*N° de code*<br>DIFFICO brown | Order No.<br>*N° de code*<br>DIFFICO white |
|---|---|---|---|---|---|---|---|
| 0.5 | 0.01 | ± 0.006 | 3 x | Ex | 4 - 10 | **3.515.051** | - |
| 1 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.515.101** | **3.515.101 W** |
| 1 | 0.1 | ± 0.007 | 2 x | Ex | 4 - 10 | **3.515.110** | - |
| 2 | 0.01 | ± 0.010 | 3 x | Ex | 4 - 10 | **3.515.201** | - |
| 2 | 0.02 | ± 0.010 | 2 x | Ex | 4 - 10 | **3.515.202** | **3.515.202 W** |
| 2 | 0.1 | ± 0.010 | 2 x | Ex | 4 - 10 | **3.515.210** | - |
| 5 | 0.05 | ± 0.030 | 2 x | Ex | 7 - 13 | **3.515.505** | **3.515.505 W** |
| 5 | 0.1 | ± 0.030 | 2 x | Ex | 7 - 13 | **3.515.510** | - |
| 10 | 0.1 | ± 0.050 | 2 x | Ex | 7 - 13 | **3.515.710** | **3.515.710 W** |
| 20 | 0.1 | ± 0.100 | 3 x | Ex | 11 - 17 | **3.515.810** | **3.515.810 W** |
| 25 | 0.1 | ± 0.100 | 2 x | Ex | 11 - 17 | **3.515.910** | **3.515.910 W** |
| With construction in the suction to hold cotton plug, please add *.***.*** S<br>*Avec embout concu pour le cotonnage, veuillez faire suivre le N° de code de la lettre "S"* | | | | | | | |

**Pipettes for enzymatic analysis, class AS,** conformity certified, made of borosilicate glass, main point ring-graduation, for partial delivery, DIFFICO brown acc. to DIN 12699

***Pipettes pour analyses enzymatiques, Classe AS*** *certifiée conforme, avec code-couleur, graduations et inscriptions en couleur marron. pour écoulement partiel, selon DIN 12699*

| Capacity | Division | Tolerance | Color-code | adjust. to | delivery time | Order No. |
|---|---|---|---|---|---|---|
| *Capacité* | *Division* | *Tolérance* | *Code-couleur* | | | *N° de code* |
| ml | ml | ml | | | s | |
| 0.1 | 0.001 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.517.011** |
| 0.2 | 0.001 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.517.021** |
| 0.5 | 0.01 | ± 0.005 | 3 x | Ex | 2 - 8 | **3.517.051** |
| 1 | 0.01 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.517.101** |
| 2 | 0.02 | ± 0.010 | 2 x | Ex | 2 - 8 | **3.517.202** |
| 5 | 0.05 | ± 0.030 | 2 x | Ex | 5 - 11 | **3.517.505** |
| 10 | 0.1 | ± 0.050 | 2 x | Ex | 5 - 11 | **3.517.710** |
| **Graduations and inscriptions DIFFICO blue / *Graduations et inscriptions en couleur bleu*** | | | | | | |
| 0.1 | 0.001 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.517.011 BL** |
| 0.2 | 0.001 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.517.021 BL** |
| 0.5 | 0.01 | ± 0.005 | 3 x | Ex | 2 - 8 | **3.517.051 BL** |
| 1 | 0.01 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.517.101 BL** |
| 2 | 0.02 | ± 0.010 | 2 x | Ex | 2 - 8 | **3.517.202 BL** |
| 5 | 0.05 | ± 0.030 | 2 x | Ex | 5 - 11 | **3.517.505 BL** |
| 10 | 0.1 | ± 0.050 | 2 x | Ex | 5 - 11 | **3.517.710 BL** |

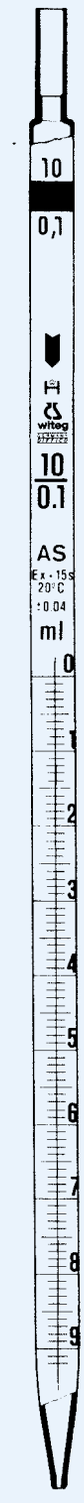



**3.517.***

**Graduated pipettes, class AS,** conformity certified, made of borosilicate glass, main point ring-graduation, **Schellbach blue line,** DIFFICO brown acc. to DIN 12697

***PIpettes graduées en verre borosilicaté, Classe AS*** *certifiée conforme,* ***avec bande bleu en émail de Schellbach,*** *avec code-couleur, graduations et inscriptions en couleur marron.selon DIN 12967*

| Capacity | Division | Tolerance | Color-code | adjust. to | delivery time | Order No. |
|---|---|---|---|---|---|---|
| *Capacité* | *Division* | *Tolérance* | *Code-couleur* | | | *N° de code* |
| ml | ml | ml | | | s | |
| 0.1 | 0.001 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.518.011** |
| 0.2 | 0.002 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.518.022** |
| 0.5 | 0.01 | ± 0.005 | 3 x | Ex | 2 - 8 | **3.518.051** |
| 1 | 0.01 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.518.101** |
| 2 | 0.01 | ± 0.010 | 3 x | Ex | 2 - 8 | **3.518.201** |
| 2 | 0.02 | ± 0.010 | 2 x | Ex | 2 - 8 | **3.518.202** |
| 5 | 0.05 | ± 0.030 | 2 x | Ex | 5 - 11 | **3.518.505** |
| 10 | 0.1 | ± 0.050 | 2 x | Ex | 5 - 11 | **3.518.710** |
| **Graduations and inscriptions DIFFICO blue / *Graduations et inscriptions en couleur bleu*** | | | | | | |
| 0.1 | 0.001 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.518.011 BL** |
| 0.2 | 0.002 | ± 0.003 | 3 x | Ex | 2 - 8 | **3.518.022 BL** |
| 0.5 | 0.01 | ± 0.005 | 3 x | Ex | 2 - 8 | **3.518.051 BL** |
| 1 | 0.01 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.518.101 BL** |
| 2 | 0.01 | ± 0.010 | 3 x | Ex | 2 - 8 | **3.518.201 BL** |
| 2 | 0.02 | ± 0.010 | 2 x | Ex | 2 - 8 | **3.518.202 BL** |
| 5 | 0.05 | ± 0.030 | 2 x | Ex | 5 - 11 | **3.518.505 BL** |
| 10 | 0.1 | ± 0.050 | 2 x | Ex | 5 - 11 | **3.518.710 BL** |




**3.518.***

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***




**3.530.*****




**3.535.*****

**Volumetric pipettes,** with one mark, with ISO-COLOR-CODE, acc. to DIN EN ISO 648, with amber stain DIFFICO ring marks and inscriptions, with tempered tips, made of borosilicate glass

***Pipettes jaugées à un trait,*** *en verre borosilicaté, avec traits en couleur marron et code-couleur selon DIN EN ISO 648*

**Volumetric pipettes, class B,** without waiting-time, acc. to DIN EN ISO 648, made of borosilicate glass

***Pipettes jaugées à un trait en verre borosilicaté, classe B,*** *traits en couleur marron, sans temps d'attente, selon DIN EN ISO 648*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.5 | ± 0.009 | 2 x | Ex | 4 - 12 | **3.530.005** |
| 1 | ± 0.010 | | Ex | 5 - 13 | **3.530.010** |
| 2 | ± 0.015 | | Ex | 5 - 13 | **3.530.020** |
| 3 | ± 0.015 | | Ex | 7 - 15 | **3.530.030** |
| 5 | ± 0.020 | | Ex | 7 - 15 | **3.530.050** |
| 10 | ± 0.030 | | Ex | 8 - 16 | **3.530.100** |
| 15 | ± 0.050 | | Ex | 9 - 17 | **3.530.150** |
| 20 | ± 0.050 | | Ex | 9 - 17 | **3.530.200** |
| 25 | ± 0.050 | | Ex | 10 - 20 | **3.530.250** |
| 50 | ± 0.080 | | Ex | 13 - 25 | **3.530.500** |
| 100 | ± 0.120 | | Ex | 25 - 35 | **3.530.900** |

**Volumetric pipettes, class AS,** conformity certified, acc. to DIN EN ISO 648, made of DIFFICO amber glass, **waiting time 5 sec.**

***Pipettes jaugées à un trait, en verre brun, classe AS,*** *selon DIN EN ISO 648 , temps d'attente 5 sec.*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.5 | ± 0.005 | 2 x | Ex | 4 - 10 | **3.535.005** |
| 1 | ± 0.008 | | Ex | 7 - 11 | **3.535.010** |
| 2 | ± 0.010 | | Ex | 7 - 11 | **3.535.020** |
| 3 * | ± 0.010 | | Ex | 7 - 11 | **3.535.030** |
| 4 * | ± 0.015 | 2 x | Ex | 7 - 11 | **3.535.040** |
| 5 | ± 0.015 | | Ex | 9 - 13 | **3.535.050** |
| 6 * | ± 0.015 | 2 x | Ex | 7 - 11 | **3.535.060** |
| 7 * | ± 0.015 | 2 x | Ex | 8 - 12 | **3.535.070** |
| 8 * | ± 0.02 | | Ex | 8 - 12 | **3.535.080** |
| 9 * | ± 0.02 | | Ex | 8 - 12 | **3.535.090** |
| 10 | ± 0.020 | | Ex | 11 - 15 | **3.535.100** |
| 15 * | ± 0.030 | | Ex | 9 - 13 | **3.535.150** |
| 20 | ± 0.030 | | Ex | 12 - 16 | **3.535.200** |
| 25 | ± 0.030 | | Ex | 15 - 20 | **3.535.250** |
| 30 * | ± 0.03 | | Ex | 13 - 18 | **3.535.300** |
| 40 * | ± 0.05 | | Ex | 13 - 18 | **3.535.400** |
| 50 | ± 0.050 | | Ex | 20 - 25 | **3.535.500** |
| 100 | ± 0.080 | | Ex | 25 - 30 | **3.535.900** |
| **Graduations and inscriptions DIFFICO blue / *Graduations et inscriptions en couleur bleu*** | | | | | |
| 0.5 | ± 0.005 | 2 x | Ex | 4 - 10 | **3.535.005 BL** |
| 1 | ± 0.008 | | Ex | 7 - 11 | **3.535.010 BL** |
| 2 | ± 0.010 | | Ex | 7 - 11 | **3.535.020 BL** |
| 3 * | ± 0.015 | | Ex | 7 - 11 | **3.535.030 BL** |
| 4 * | ± 0.015 | 2 x | Ex | 7 - 11 | **3.535.040 BL** |
| 5 | ± 0.015 | | Ex | 9 - 13 | **3.535.050 BL** |
| 6 * | ± 0.015 | 2 x | Ex | 7 - 11 | **3.535.060 BL** |
| 7 * | ± 0.015 | 2 x | Ex | 8 - 12 | **3.535.070 BL** |
| 8 * | ± 0.02 | | Ex | 8 - 12 | **3.535.080 BL** |
| 9 * | ± 0.02 | | Ex | 8 - 12 | **3.535.090 BL** |
| 10 | ± 0.020 | | Ex | 11 - 15 | **3.535.100 BL** |
| 15 * | ± 0.030 | | Ex | 9 - 13 | **3.535.150 BL** |
| 20 | ± 0.030 | | Ex | 12 - 16 | **3.535.200 BL** |
| 25 | ± 0.030 | | Ex | 15 - 20 | **3.535.250 BL** |
| 30 * | ± 0.03 | | Ex | 13 - 18 | **3.535.300 BL** |
| 40 * | ± 0.05 | | Ex | 13 - 18 | **3.535.400 BL** |
| 50 | ± 0.050 | | Ex | 20 - 25 | **3.535.500 BL** |
| 100 | ± 0.080 | | Ex | 25 - 30 | **3.535.900 BL** |

* not DIN EN ISO 648 / *sans DIN EN ISO 648*

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*

**Volumetric pipettes, with two marks class AS,** acc. to DIN EN ISO 648, conformity certified, waiting time 5 s, made of borosilicate glass

***Pipettes jaugées à deux traits en verre borosilicaté, classe AS,*** *selon DIN EN ISO 648, certifiée conforme, traits et marquage en couleur marron, temps d'attente 5 sec.*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.5 | ± 0.005 | ● 2 x | Ex | 6 - 10 | **3.555.005** |
| 1 | ± 0.008 | ● | Ex | 7 - 11 | **3.555.010** |
| 2 | ± 0.010 | ● | Ex | 7 - 11 | **3.555.020** |
| 3 * | ± 0.015 | ● | Ex | 7 - 11 | **3.555.030** |
| 5 | ± 0.015 | ● | Ex | 9 - 13 | **3.555.050** |
| 10 | ± 0.020 | ● | Ex | 11 - 15 | **3.555.100** |
| 15 * | ± 0.030 | ● | Ex | 9 - 13 | **3.555.150** |
| 20 | ± 0.030 | ● | Ex | 12 - 16 | **3.555.200** |
| 25 | ± 0.030 | ● | Ex | 15 - 20 | **3.555.250** |
| 50 | ± 0.050 | ● | Ex | 20 - 25 | **3.555.500** |
| 100 | ± 0.080 | ● | Ex | 25 - 30 | **3.555.900** |

* not DIN EN ISO 648 / *sans DIN EN ISO 648*

**Volumetric pipettes,** with security bulb, **with two marks, class AS**
acc. to DIN EN ISO 648, conformity certified, waiting time 5 s, made of borosilicate glass

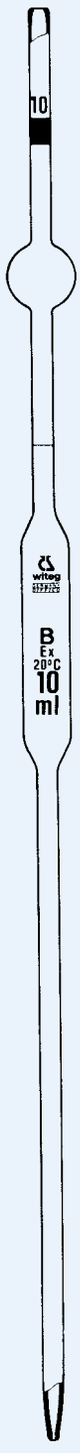
***Pipettes jaugées à deux traits, avec boule de sécurité, en verre borosilicaté, classe AS,*** *selon DIN EN ISO 648, certifiée conforme, traits et marquage en couleur marron, temps d'attente 5 sec.*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.5 | ± 0.005 | ● 2 x | Ex | 6 - 10 | **3.555.005** |
| 1 | ± 0.008 | ● | Ex | 7 - 11 | **3.555.010** |
| 2 | ± 0.010 | ● | Ex | 7 - 11 | **3.555.020** |
| 3 * | ± 0.015 | ● | Ex | 7 - 11 | **3.555.030** |
| 5 | ± 0.015 | ● | Ex | 9 - 13 | **3.555.050** |
| 10 | ± 0.020 | ● | Ex | 11 - 15 | **3.555.100** |
| 15 * | ± 0.030 | ● | Ex | 9 - 13 | **3.555.150** |
| 20 | ± 0.030 | ● | Ex | 12 - 16 | **3.555.200** |
| 25 | ± 0.030 | ● | Ex | 15 - 20 | **3.555.250** |
| 50 | ± 0.050 | ● | Ex | 20 - 25 | **3.555.500** |
| 100 | ± 0.080 | ● | Ex | 25 - 30 | **3.555.900** |

* not DIN EN ISO 648 / *sans DIN EN ISO 648*



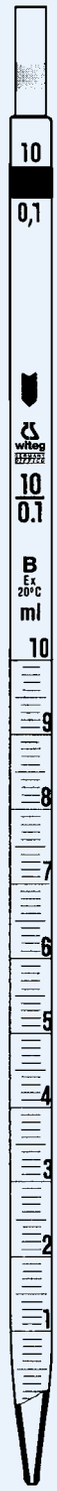

**3.555.*****




***.***.***K**

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***




3.569.***




3.570.***

**Pipettes „blow-out“,** with ISO-COLOR-CODE, with amber stain DIFFICO graduations and inscriptions. Tempered delivery tips offering a wear resistance which is up to seven times better than that of conventional pipette delivery tips. The specified waiting time of 3 s must not be realized. This waiting time is the period for the manipulation which is usually necessary, made of borosilicate glass
**The inscription „blow out“ is indicated on each pipette**

***Pipettes graduées en verre soufflé, à graduations et inscriptions en couleur marron.*** *Le temps d'attente indiqué ne doit pas être réalisé. Ce temps est la période pour la manipulation qui est généralement nécessaire, en verre borosilicaté*
***Une inscription "Blow out" figure sur chaque pipette***

**Blow-out graduated pipettes, class B, short line graduation, without waiting time**, made of borosilicate glass

***Pipettes graduées en verre soufflé, classe B,*** *sans temps d'attente, en verre borosilicaté*

| Capacity | Division | Tolerance | Colour-code | adjust. to | delivery time | Order No. |
|---|---|---|---|---|---|---|
| *Capacité* | *Division* | *Tolérance* | *Code-couleur* | | | *N° de code* |
| ml | ml | ml | | | s | |
| 0.1 | 0.001 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.569.011** |
| 0.2 | 0.001 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.569.021** |
| 0.2 | 0.002 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.569.022** |
| 0.5 | 0.01 | ± 0.01 | 2 x | Ex | 2 - 12 | **3.569.051** |
| 1 | 0.01 | ± 0.01 | | Ex | 2 - 12 | **3.569.101** |
| 1 | 0.1 | ± 0.01 | | Ex | 2 - 12 | **3.569.110** |
| 2 | 0.01 | ± 0.015 | 2 x | Ex | 2 - 12 | **3.569.201** |
| 2 | 0.02 | ± 0.015 | | Ex | 2 - 12 | **3.569.202** |
| 2 | 0.1 | ± 0.015 | | Ex | 2 - 12 | **3.569.210** |
| 5 | 0.05 | ± 0.040 | | Ex | 5 - 15 | **3.569.505** |
| 5 | 0.1 | ± 0.040 | | Ex | 5 - 15 | **3.569.510** |
| 10 | 0.1 | ± 0.080 | | Ex | 5 - 15 | **3.569.710** |
| 20 | 0.1 | ± 0.150 | 2 x | Ex | 9 - 20 | **3.569.810** |
| 25 | 0.1 | ± 0.2 | | Ex | 9 - 20 | **3.569.910** |

**Blow-out graduated pipettes, class AS for officially testing, main point ring-graduation, waiting time 5 s, DIN EN ISO 385**

***Pipettes graduées en verre soufflé, classe AS*** *certifiée conforme, temps d'attente 5 sec.,* ***DIN EN ISO 385***

| Capacity | Division | Tolerance | Colour-code | adjust. to | delivery time | Order No. |
|---|---|---|---|---|---|---|
| *Capacité* | *Division* | *Tolérance* | *Code-couleur* | | | *N° de code* |
| ml | ml | ml | | | s | |
| 0.1 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.570.011** |
| 0.2 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.570.021** |
| 0.2 | 0.002 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.570.022** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.570.051** |
| 1 | 0.01 | ± 0.007 | | Ex | 2 - 8 | **3.570.101** |
| 1 | 0.1 | ± 0.007 | | Ex | 2 - 8 | **3.570.110** |
| 2 * | 0.01 | ± 0.010 | 2 x | Ex | 2 - 8 | **3.570.201** |
| 2 | 0.02 | ± 0.010 | | Ex | 2 - 8 | **3.570.202** |
| 2 | 0.1 | ± 0.010 | | Ex | 2 - 8 | **3.570.210** |
| 5 | 0.05 | ± 0.030 | | Ex | 5 - 11 | **3.570.505** |
| 5 | 0.1 | ± 0.030 | | Ex | 5 - 11 | **3.570.510** |
| 10 | 0.1 | ± 0.050 | | Ex | 5 - 11 | **3.570.710** |
| 20 | 0.1 | ± 0.100 | 2 x | Ex | 9 - 15 | **3.570.810** |
| 25 | 0.1 | ± 0.100 | | Ex | 9 - 15 | **3.570.910** |

*** not aac. to DIN /** ** ne réspond pas à la norme DIN*

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*

**Blow-out volumetric pipettes, class B,** without waiting-time, made of glass

***Pipettes jaugées en verre soufflé, classe B,*** *sans temps d'attente, en verre*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.5 | ± 0.009 | 2 x | Ex | 4 - 12 | **3.571.005** |
| 1 | ± 0.010 | | Ex | 5 - 13 | **3.571.010** |
| 2 | ± 0.015 | | Ex | 5 - 13 | **3.571.020** |
| 3 | ± 0.020 | | Ex | 7 - 15 | **3.571.030** |
| 5 | ± 0.020 | | Ex | 7 - 15 | **3.571.050** |
| 10 | ± 0.030 | | Ex | 8 - 16 | **3.571.100** |
| 15 | ± 0.050 | | Ex | 9 - 17 | **3.571.150** |
| 20 | ± 0.050 | | Ex | 9 - 17 | **3.571.200** |
| 25 | ± 0.050 | | Ex | 10 - 20 | **3.571.250** |
| 50 | ± 0.080 | | Ex | 13 - 25 | **3.571.500** |
| 100 | ± 0.120 | | Ex | 25 - 35 | **3.571.900** |

**Blow-out volumetric pipettes, class AS** for officially testing, waiting time 5 s, made of glass

***Pipettes jaugées en verre soufflé, classe AS*** *certifiée conforme, temps d'attente 5 sec., en verre*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Color-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.5 | ± 0.005 | 2 x | Ex | 4 - 8 | **3.572.005** |
| 1 | ± 0.007 | | Ex | 5 - 9 | **3.572.010** |
| 2 | ± 0.010 | | Ex | 5 - 9 | **3.572.020** |
| 3 | ± 0.015 | | Ex | 7 - 11 | **3.572.030** |
| 5 | ± 0.015 | | Ex | 7 - 11 | **3.572.050** |
| 10 | ± 0.020 | | Ex | 8 - 12 | **3.572.100** |
| 15 | ± 0.030 | | Ex | 9 - 13 | **3.572.150** |
| 20 | ± 0.030 | | Ex | 9 - 13 | **3.572.200** |
| 25 | ± 0.030 | | Ex | 10 - 15 | **3.572.250** |
| 50 | ± 0.050 | | Ex | 13 - 18 | **3.572.500** |
| 100 | ± 0.080 | | Ex | 25 - 30 | **3.572.900** |



**3.571.*****



**3.572.*****

**Graduated pipettes, piston type, class B,** short line graduation, with ISO-COLOR-CODE, with interchangeable piston, with amber stain DIFFICO graduations and inscriptions, with tempered tips - for complete delivery. Made of glass

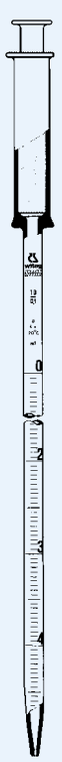
***Pipettes graduées à piston interchangeable, en verre, classe B,*** *graduations et inscriptions en couleur marron, pour écoulement total. En verre*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour-code<br>*Code-couleur* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.5 | 0.01 | ± 0.008 | 2 x | **3.575.051** |
| 1 | 0.01 | ± 0.008 | | **3.575.101** |
| 2 | 0.02 | ± 0.015 | | **3.575.202** |
| 5 | 0.05 | ± 0.04 | | **3.575.505** |
| 10 | 0.1 | ± 0.08 | | **3.575.710** |
| 25 | 0.1 | ± 0.15 | | **3.575.910** |

**Volumetric pipettes, piston type, class B,** with ISO-COLOR-CODE, with interchangeable piston, with amber stain DIFFICO ring marks and inscriptions, with tempered tips, made of glass

***Pipettes jaugées à piston interchangeable, en verre, classe B,*** *graduations et inscriptions en couleur marron, en verre*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Color-code<br>*Code-couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | ± 0.010 | | **3.577.010** |
| 2 | ± 0.015 | | **3.577.020** |
| 5 | ± 0.020 | | **3.577.050** |
| 10 | ± 0.030 | | **3.577.100** |
| 20 | ± 0.050 | | **3.577.200** |
| 25 | ± 0.050 | | **3.577.250** |
| 50 | ± 0.080 | | **3.577.500** |
| 100 | ± 0.120 | | **3.577.900** |



**3.575.*****



**3.577.*****




**3.510.*****

**Graduated pipettes, 0-point in the tip, class AS,** conformity certified, main point ring graduation, with ISO-COLOR-CODE, **acc. to DIN EN ISO 385**, with amber stain DIFFICO-graduations and inscriptions. Tempered delivery tips offering a wear resistance which is up to seven times better than that of conventional pipette delivery tips. Sizes 5 ml and up with construction in the suction to hold cotton plug. **Waiting time 5 s**

***Pipettes graduées avec zéro en haut, classe AS en verre borosilicaté selon DIN EN ISO 385,*** *avec code-couleur, graduations et inscriptions en DIFFICO marron (disponibles aussi avec graduations bleu) . A partir d'un volume de 5 ml, l'embout supérieur est concu pour être contonné.* ***Temps d'attente 5 sec.***

**Graduated pipettes, 0-point in the tip, measuring,** for complete swift delivery, DIFFICO brown

***Pipettes graduées avec zéro en haut, en verre borosilicaté,*** *avec code-couleur, graduations et inscriptions en couleur marron. Ecoulement total*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Color-code<br>*Code-couleur* | adjust. to | delivery time<br>s | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.1 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.578.011** |
| 0.2 | 0.001 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.578.021** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.578.051** |
| 1 | 0.01 | ± 0.007 | | Ex | 4 - 10 | **3.578.101** |
| 1 | 0.1 | ± 0.007 | | Ex | 4 - 10 | **3.578.110** |
| 2 | 0.02 | ± 0.010 | | Ex | 4 - 10 | **3.578.202** |
| 2 | 0.1 | ± 0.010 | | Ex | 4 - 10 | **3.578.210** |
| 5 | 0.05 | ± 0.030 | | Ex | 7 - 13 | **3.578.505** |
| 5 | 0.1 | ± 0.030 | | Ex | 7 - 13 | **3.578.510** |
| 10 | 0.1 | ± 0.050 | | Ex | 7 - 13 | **3.578.710** |
| 20 | 0.1 | ± 0.100 | 2 x | Ex | 11 - 17 | **3.578.810** |
| 25 * | 0.1 | ± 0.100 | | Ex | 11- 17 | **3.578.910** |
| 25 | 0.2 | ± 0.100 | | Ex | - | **3.578.925** |
| **Graduations and inscriptions DIFFICO blue / *Graduations et inscriptions en couleur bleu*** | | | | | | |
| 0.1 | 0.01 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.578.011 BL** |
| 0.2 | 0.01 | ± 0.006 | 2 x | Ex | 2 - 8 | **3.578.021 BL** |
| 0.5 | 0.01 | ± 0.006 | 2 x | Ex | 4 - 10 | **3.578.051 BL** |
| 1 | 0.01 | ± 0.007 | | Ex | 4 - 10 | **3.578.101 BL** |
| 1 | 0.1 | ± 0.007 | | Ex | 4 - 10 | **3.578.110 BL** |
| 2 | 0.02 | ± 0.010 | | Ex | 4 - 10 | **3.578.202 BL** |
| 2 | 0.1 | ± 0.010 | | Ex | 4 - 10 | **3.578.210 BL** |
| 5 | 0.05 | ± 0.030 | | Ex | 7 - 13 | **3.578.505 BL** |
| 5 | 0.1 | ± 0.030 | | Ex | 7 - 13 | **3.578.510 BL** |
| 10 | 0.1 | ± 0.050 | | Ex | 7 - 13 | **3.578.710 BL** |
| 20 | 0.1 | ± 0.100 | 2 x | Ex | 11 - 17 | **3.578.810 BL** |
| 25 * | 0.1 | ± 0.100 | | Ex | 11- 17 | **3.578.910 BL** |
| 25 | 0.2 | ± 0.100 | | Ex | - | **3.578.925 BL** |

* Length 450 mm / ** Longueur 450 mm*

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*

**Automatic pipettes,** with 1 l reservoir bottle, with ST 29/32, with inscriptions, or with thread GL 45, with function-stop, with inscriptions, made of borosilicate glass

***Pipettes automatiques en verre borosilicaté,*** *disponibles avec flacon de 1 litre à rodage normalisé 29/32 ou à filetage GL 45, avec fonction d'arrêt et inscriptions.*

| **Capacity**<br>***Capacité***<br>**ml** | **Order No.**<br>***N° de code***<br>**ST 29/32** | **Order No.**<br>***N° de code***<br>**GL 45** |
|---|---|---|
| Complete / *Complet* | | |
| 1 | **3.580.001** | **3.581.001** |
| 2 | **3.580.002** | **3.581.002** |
| 3 | **3.580.003** | **3.581.003** |
| 4 | **3.580.004** | **3.581.004** |
| 5 | **3.580.005** | **3.581.005** |
| 10 | **3.580.010** | **3.581.010** |
| 15 | **3.580.015** | **3.581.015** |
| 20 | **3.580.020** | **3.581.020** |
| 25 | **3.580.025** | **3.581.025** |
| 30 | **3.580.030** | **3.581.030** |
| 40 | **3.580.040** | **3.581.040** |
| 50 | **3.580.050** | **3.581.050** |
| 100 | **3.580.100** | **3.581.100** |




**3.580.*****

**Spare parts /** *Pièces de rechange*

| | **ST 29/32** | **GL 45** |
|---|---|---|
| Reservoir bottle, 1000 ml, ST 29/32, complete with glass stopper 5.868.001<br>*Flacon de 1000 ml, RN 29/32, avec bouchon 5.868.001* | **3.580.101** | - |
| Reservoir bottle, 1000 ml, GL 45, with cap and seal<br>*Flacon de 1000 ml, à filetage GL 45* | - | **3.581.101** |
| Dispensing head only, 1 ml<br>*Dispositif de pipetage automatique, capacité 1 ml* | **3.580.301** | **3.581.301** |
| Dispensing head only, 2 ml<br>*Dispositif de pipetage automatique, capacité 2 ml* | **3.580.302** | **3.581.302** |
| Dispensing head only, 3 ml<br>*Dispositif de pipetage automatique, capacité 3 ml* | **3.580.303** | **3.581.303** |
| Dispensing head only, 4 ml<br>*Dispositif de pipetage automatique, capacité 4 ml* | **3.580.304** | **3.581.304** |
| Dispensing head only, 5 ml<br>*Dispositif de pipetage automatique, capacité 5ml* | **3.580.305** | **3.581.305** |
| Dispensing head only, 10 ml<br>*Dispositif de pipetage automatique, capacité 10 ml* | **3.580.310** | **3.581.310** |
| Dispensing head only, 15 ml<br>*Dispositif de pipetage automatique, capacité 15 ml* | **3.580.315** | **3.581.315** |
| Dispensing head only, 20 ml<br>*Dispositif de pipetage automatique, capacité 20 ml* | **3.580.320** | **3.581.320** |
| Dispensing head only, 25 ml<br>*Dispositif de pipetage automatique, capacité 25 ml* | **3.580.325** | **3.581.325** |
| Dispensing head only, 30 ml<br>*Dispositif de pipetage automatique, capacité 30 ml* | **3.580.330** | **3.581.330** |
| Dispensing head only, 40 ml<br>*Dispositif de pipetage automatique, capacité 40 ml* | **3.580.340** | **3.581.340** |
| Dispensing head only, 50ml<br>*Dispositif de pipetage automatique, capacité 50 ml* | **3.580.350** | **3.581.350** |
| Dispensing head only, 100 ml<br>*Dispositif de pipetage automatique, capacité 100 ml* | **3.580.360** | **3.581.360** |




**3.581.*****

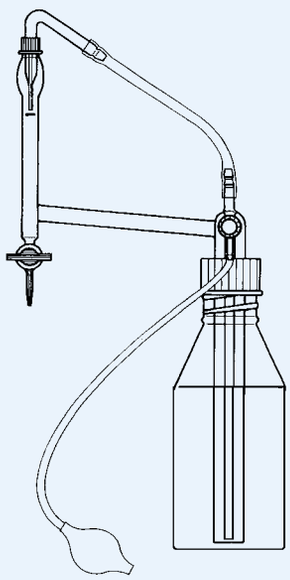
**Automatic pipettes, Friedrichs,** with automatic zero point, made of borosilicate glass

***Pipettes automatiques de Friedrichs à*** *zéro automatique, en verre borosilicaté*

| **Capacity**<br>***Capacité***<br>**ml** | **Order No.**<br>***N° de code*** |
|---|---|
| 5 | **3.585.005** |
| 10 | **3.585.010** |
| 25 | **3.585.025** |
| 50 | **3.585.050** |
| 100 | **3.585.100** |




**3.585.*****



**3.590.*****

**Automatic volumetric pipettes**
(Dispenser burette), with automatic zero point, with amber stain DIFFICO mark and inscriptions, with 1 l reservoir bottle GL 45, graduated, with aspirator bulb, complete ready for use. With stopcock with ST glass plug, with threaded detachable hose connection and changeable zero-tube for easier cleaning, made of borosilicate glass (Other sizes on request)

***Pipettes jaugées automatiques (burette distributrice) à zéro automatique,*** *avec graduations et inscriptions en couleur marron, avec flacon gradué en verre de 1 litre à filetage GL 45 et poire aspirante. Robinet à clé en verre interchangeable, raccord pour tuyau détachable et tube à zéro facilement démontable pour nettoyage. (Autres capacités sur demande)*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 3 | **3.590.003** |
| 5 | **3.590.005** |
| 10 | **3.590.010** |
| 15 | **3.590.015** |
| 20 | **3.590.020** |
| 25 | **3.590.025** |
| 30 | **3.590.030** |
| 40 | **3.590.040** |
| 50 | **3.590.050** |
| 100 | **3.590.100** |
| 125 | **3.590.125** |



**3.965.*****
**-**
**3.966.*****

**WITO-pipetting rubber balls, approved for many years, problem-free use, for pipetting absolutely trouble-free**
With 3 valves, largely chemically resistant, equipped with trouble-free special glass valve balls. Easy to clean with a usual cleansing concentrate, e. g. WITON-EX. The advantages of the one-hand operation are the simple handling and the accurate fixation of the desired liquid meniscus in the pipette. Packed dust-free in celophan bags.

***Propipettes "WITO" poires en caoutchouc naturel avec 3 soupapes à billes en agate, pour pipettes diverses***

**WITO-pipetting rubber balls „STANDARD“,** for all volumetric and graduated pipettes

***Propipette, modèle standard,*** *pour pipettes jusqu'à 10 ml*

| | Order No.<br>*N° de code* |
|---|---|
| | **3.965.000** |

**WITO-pipetting rubber balls „UNIVERSAL“,** with elongated cone for sticking on, for all volumetric and graduated pipettes

***Propipette, modèle universel,*** *pour pipettes jusqu'à 100 ml*

| | Order No.<br>*N° de code* |
|---|---|
| | **3.966.000** |



**3.967.*****

**FLIP-pipetting rubber balls**
for all volumetric and graduated pipette sizes. with only 2 pressure valves and 1 automatic new valve for simple handling. Complete washable by simple moving of the automatic valve

***Poires propipettes de sécurité FLIP*** *en caoutchouc coloré, avec soupape automatique, pour pipettes jusqu'à 100 ml*

| Colour- code<br>*Code-couleur* | Order No.<br>*N° de code* |
|---|---|
| | **3.967.000** |
| | **3.967.001** |
| | **3.967.002** |
| | **3.967.003** |
| | **3.967.004** |

**Suction bulbs for pipettes**

***Têtines et poires d'aspiration pour pipettes,*** *en caoutchouc souple*

| For capacity<br>*Pour capacité*<br>ml | Colour-code<br>*Code-couleur* | Pack of<br>*Package*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | | 10 | 3.968.001 |
| 2 | | 10 | 3.968.002 |
| 5 | | 10 | 3.968.005 |
| 10 | | 10 | 3.968.010 |
| 15 | | 10 | 3.968.015 |



3.968.***

**Safety pipette filler Howarka ball®,** ultrasafe laboratory aid for universal use, specially designdopening for imediate sealing effect on all standard tube diameters, no unnecessary valves, awkward air pads or rigid joins

***Poire aspirante et refoulante de sécurité type Howarka,*** *à usage universel pour pipettes et tubes capillaires. Destinée aussi au pipettage et filtrage de solvents organiques et de substances visqueuses. Autoclavable*

| For capacity<br>*Pour capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 20 | 3.595.020 |
| 50 | 3.595.050 |



3.595.***

**WITO Pipette controller,** the lightweight for non-electrical pipette filling

1. Put smooth pressure on the bellow to "load" the WITO Pipette Filler.
2. Fill glass or plastic pipettes from 0,1 ml up to 100 ml with one device.
3. Adjust the meniscus with the sensitive Lever.
4. Eject your desired value.
5. Blow out the rest, if necessary.

- No batteries or chargers needed.
- Simple and robust design for a long lifetime.
- Easy changeable one way filter integrated.
- Only 120 g.

***Aspirateur manuel pour pipette "WITO"*** *simple et efficace pour toutes les pipettes de 0.1 ml à 100 ml. Filtre intégré interchangeable Ne nécessite ni batterie ni rechargement. Poids 120g*

| Color-code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|
| (Standard) | 5.382.000 |
| | 5.382.001 |
| | 5.382.002 |
| | 5.382.003 |
| | 5.382.004 |
| **Accessories /** *Accessoires* | |
| One way filter (set of 5) / *Jeu de 5 filtres de rechange* | 5.380.006 |
| Silicone adapter / *Raccord en silicone de rechange* | 5.380.010 |



5.382.***

**Suction bulbs,** made of PVC, suitable for all pipettes and Pasteur pipettes with hole of 6 mm inner diameter

***Poires aspirantes en PVC,*** *pour toutes les pipettes et pipettes de Pasteur, avec orifice de dia. int. 6 mm*

| Size<br>*Taille* | Suction volume<br>*Volume d'aspiration*<br>ml | Ball-Diam.<br>*Diamètre*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| B oval | 5 | 25 | 3.597.001 |
| 0 | 8 | 30 | 3.597.002 |
| 2 | 25 | 42 | 3.597.003 |
| 3 | 40 | 48 | 3.597.004 |
| 5 | 89 | 62 | 3.597.005 |
| 7 | 143 | 72 | 3.597.006 |
| 9 | 224 | 84 | 3.597.007 |
| 11 | 347 | 94 | 3.597.008 |



3.597.***

**Pipette pump „pi-pump",** for pipettes up to 25 ml, with delivery valve-lever, made of polypropylene (PP)

***Pipeteur rapide "pi-pump"*** *en polypropylène (PP), pour pipettes jusqu'à 25 ml. La rotation de la molette aspire et refoule le liquide*

| For capacity<br>*Pour capacité*<br>ml | Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|
| 0.2 | | 7.032.001 |
| 2 | | 7.032.002 |
| 10 | | 7.032.003 |
| 25 | | 7.032.004 |
| **Accessories /** *Accessoires* | | |
| Stand for Pipette pumps / *Portoir spécial pour pipeteurs* | | 7.032.111 |



7.032.***



**7.034.***** - **7.035.*****

**Automatic pipette washer, made of polyéthylene (PE). Washer with siphoning device. Must be completed with a jar, a basket and handle extension for a complete working system**

***Laveur de pipettes automatique,*** *en polyéthylène (PE). Laveur avec siphon, à compléter avec un bac trempage, d'un panier à pipettes et d'une anse de rallonge, pour en faire un système complet fonctionnel*

| Outer Ø<br>*Ø ext.*<br>mm | Heigth<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 165 | 650 | **7.034.001** |
| 165 | 1000 | **7.034.002** |

**Pipette jars,** made of Polyethylene (PE)

***Bac de trempage,*** *en polyéthylène (PE)*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 162 | 650 | **7.035.001** |
| 162 | 503 | **7.035.002** |
| 125 | 250 | **7.035.003** |

**Pipette baskets,** made of Polyethylene (PE)

***Panier à pipettes,*** *en polyéthylène (PE)*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Basket height<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 145 | 648 | 300 | **7.036.001** |
| 145 | 497 | 300 | **7.036.002** |

**Accessories /** *Accessiores*

Handle extension for pipette baskets **7.036.003**
*Anse de rallonge, en polyéthylène (PE)*



**7.635.004**

**Pipette jar,** for the dust-free storage of pipettes up to 400 mm length, made of Polypropylene (PP)

***Boite cylindrique de stockage*** *pour pipettes jusqu'à 400 mm, en polypropylène (PP)*

| Outer Ø<br>*Ø ext.*<br>mm | Hight<br>*Hauteur*<br>mm | Inner hight<br>*Hauteur int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 82 | 426 | 410 | **7.635.004** |



**7.097.001**

**Support pipette,** for pipettes from 120 mm length, made of Polyvinylchloride (PVC)

***Support pour pipettes en PVC***

| Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 216 x 283 | 40 | **7.097.001** |



**7.098.001**

**Support pipette,** suitable for drawers, alongside subdivided in 4 shelves, made of Polyvinylchloride (PVC)

***Plateau pour pipettes en PVC,*** *à 4 séparations, pour stockage dans tiroir*

| Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 300 x 426 | 30 | **7.098.001** |

**Pipette stand,** hold a maximum of 94 pipettes. The special elastic of springy construction of the stand plates prevents any damage to the pipette point. The remains of the liquid drips from pipette to slanted base plate where it is held by reinforced rim, made of Polypropylene (PP)

***Portoir pour pipettes,*** *universel, en polypropylène (PP), admet jusqu'à 94 pipettes*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.081.001** |



**7.081.*****

## Volumetric flasks
## *Fioles jaugées*

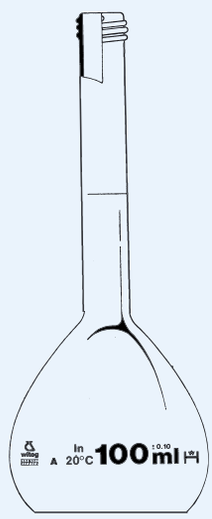
**Volumetric flasks, DIN EN ISO 1042** made of DURAN, with acid and alkali resistant ring marks and inscriptions, DIFFICO amber stain graduation

***Fioles jaugées selon DIN EN ISO 1042*** *en verre borosilicaté avec graduations et inscriptions en couleur marron résistantes aux attaques chimiques*

**Volumetric flasks, with screw caps, top closed, with PTFE washer, class A,** conformity certified, for officially testing, DIFFICO brown, made of borosilicate glass, with certificate in the box

***Fioles jaugées Classe A,*** *en verre borosilicaté avec bouchon à visser et joint en téflon. Inscriptions en couleur marron, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Screw thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.025 | 14 | **3.642.000** |
| 10 | 0.025 | 14 | **3.642.001** |
| 20 | 0.040 | 14 | **3.642.002** |
| 25 | 0.040 | 14 | **3.642.003** |
| 50 | 0.060 | 18 | **3.642.005** |
| 100 | 0.100 | 18 | **3.642.010** |
| 200 | 0.150 | 18 | **3.642.020** |
| 250 | 0.150 | 18 | **3.642.025** |
| 500 | 0.250 | 25 | **3.642.050** |
| 1000 | 0.400 | 32 | **3.642.100** |
| 2000 | 0.600 | 32 | **3.642.200** |
| 5000 | 1.200 | 32 | **3.642.500** |

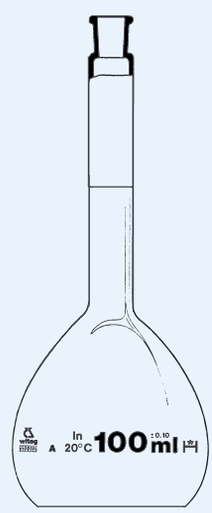



**3.642.*****

**Volumetric flasks, class A** conformity certified, without stopper, ground joint neck, DIFFICO brown, made of borosilicate glass, with certificate in the box

***Fioles jaugées en verre borosilicaté, classe A*** *certifiée conforme, col à rodage normalisé et sans bouchon. Inscriptions en couleur marron, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.025 | 7/16 | **3.662.000** |
| 10 | 0.025 | 7/16 | **3.662.001** |
| 20 | 0.040 | 10/19 | **3.662.002** |
| 25 | 0.040 | 10/19 | **3.662.003** |
| 50 | 0.060 | 12/21 | **3.662.005** |
| 50 | 0.100 | 14/23 | **3.662.006** |
| 100 | 0.100 | 12/21 | **3.662.010** |
| 100 | 0.100 | 14/23 | **3.662.011** |
| 200 | 0.150 | 14/23 | **3.662.020** |
| 250 | 0.150 | 14/23 | **3.662.025** |
| 500 | 0.250 | 19/26 | **3.662.050** |
| 1000 | 0.400 | 24/29 | **3.662.100** |
| 1000 | 0.600 | 29/32 | **3.662.101** |
| 2000 | 0.600 | 29/32 | **3.662.200** |
| 5000 | 1.200 | 34/35 | **3.662.500** |




**3.662.*****

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***



**3.664.*****

**Volumetric flasks, class A**
conformity certified, with ST-Polyethylene stoppers, DIFFICO brown, made of borosilicate glass, with certificate in the box

***Fioles jaugées en verre borosilicaté, classe A***
*certifiée conforme, avec bouchon en polyéthylène à rodage normalisé. Inscriptions en couleur marron, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.025 | 7/16 | **3.664.000** |
| 5 | 0.040 | 10/19 | **3.664.015** |
| 10 | 0.025 | 7/16 | **3.664.001** |
| 10 | 0.040 | 10/19 | **3.664.012** |
| 15 * | 0.040 | 10/19 | **3.664.016** |
| 20 | 0.040 | 10/19 | **3.664.002** |
| 20 | 0.040 | 7/16 | **3.664.021** |
| 25 | 0.040 | 10/19 | **3.664.003** |
| 25 | 0.060 | 12/21 | **3.664.014** |
| 50 | 0.060 | 12/21 | **3.664.005** |
| 50 | 0.100 | 14/23 | **3.664.006** |
| 100 | 0.100 | 12/21 | **3.664.010** |
| 100 | 0.100 | 14/23 | **3.664.011** |
| 200 | 0.150 | 14/23 | **3.664.020** |
| 250 | 0.150 | 14/23 | **3.664.025** |
| 500 | 0.250 | 19/26 | **3.664.050** |
| 1000 | 0.400 | 24/29 | **3.664.100** |
| 1000 | 0.600 | 29/32 | **3.664.101** |
| 2000 | 0.600 | 29/32 | **3.664.200** |
| 5000 | 1.200 | 34/35 | **3.664.500** |

* not EN ISO / *sans EN ISO*



**3.664.*** BL**

**Volumetric flasks, class A**
conformity certified, with ST-Polyethylene stoppers, Blue graduated, made of borosilicate glass, with certificate in the box

***Fioles jaugées en verre borosilicaté, classe A***
*certifiée conforme, avec bouchon en polyéthylène à rodage normalisé. Inscription en couleur bleu, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.025 | 7/16 | **3.664.000 BL** |
| 5 | 0.040 | 10/19 | **3.664.015 BL** |
| 10 | 0.025 | 7/16 | **3.664.001 BL** |
| 10 | 0.040 | 10/19 | **3.664.012 BL** |
| 15 * | 0.040 | 10/19 | **3.664.016 BL** |
| 20 | 0.040 | 10/19 | **3.664.002 BL** |
| 20 | 0.040 | 7/16 | **3.664.021 BL** |
| 25 | 0.040 | 10/19 | **3.664.003 BL** |
| 25 | 0.060 | 12/21 | **3.664.014 BL** |
| 50 | 0.060 | 12/21 | **3.664.005 BL** |
| 50 | 0.100 | 14/23 | **3.664.006 BL** |
| 100 | 0.100 | 12/21 | **3.664.010 BL** |
| 100 | 0.100 | 14/23 | **3.664.011 BL** |
| 200 | 0.150 | 14/23 | **3.664.020 BL** |
| 250 | 0.150 | 14/23 | **3.664.025 BL** |
| 500 | 0.250 | 19/26 | **3.664.050 BL** |
| 1000 | 0.400 | 24/29 | **3.664.100 BL** |
| 1000 | 0.600 | 29/32 | **3.664.101 BL** |
| 2000 | 0.600 | 29/32 | **3.664.200 BL** |
| 5000 | 1.200 | 34/35 | **3.664.500 BL** |

* not EN ISO / *sans EN ISO*

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***

**Volumetric flasks, class A**
conformity certified, with ST-Polyethylene stoppers, DIFFICO brown, with spout, made of borosilicate glass, with certificate in the box

***Fioles jaugées à bec en verre borosilicaté, classe A,*** *certifiée conforme, à bec et avec bouchon en polyéthylène à rodage normalisé. Inscriptions en couleur marron et livrées avec certificat*

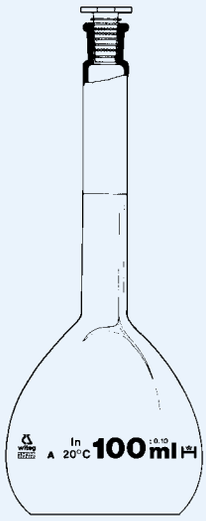
| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 * | 0.040 | 10/19 | **3.664.015 A** |
| 10 * | 0.040 | 10/19 | **3.664.012 A** |
| 15 * | 0.040 | 10/19 | **3.664.016 A** |
| 20 * | 0.040 | 10/19 | **3.664.002 A** |
| 20 * | 0.040 | 7/16 | **3.664.021 A** |
| 25 * | 0.040 | 10/19 | **3.664.003 A** |
| 25 * | 0.060 | 12/21 | **3.664.014 A** |
| 50 * | 0.060 | 12/21 | **3.664.005 A** |
| 50 * | 0.100 | 14/23 | **3.664.006 A** |
| 100 * | 0.100 | 12/21 | **3.664.010 A** |
| 100 * | 0.100 | 14/23 | **3.664.011 A** |
| 200 * | 0.150 | 14/23 | **3.664.020 A** |
| 250 * | 0.150 | 14/23 | **3.664.025 A** |
| 500 * | 0.250 | 19/26 | **3.664.050 A** |
| 1000 * | 0.400 | 24/29 | **3.664.100 A** |
| 1000 * | 0.600 | 29/32 | **3.664.101 A** |
| 2000 * | 0.600 | 29/32 | **3.664.200 A** |
| 5000 * | 1.200 | 34/35 | **3.664.500 A** |

* not EN ISO / *sans EN ISO*









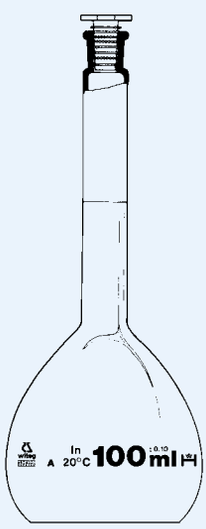

**3.664.***A**

**Volumetric flasks, class DIN-A**
conformity certified, with ST-hollow glass stoppers, DIFFICO brown, made of borosilicate glass, with certificate in the box

***Fioles jaugées en verre borosilicaté, classe A*** *certifiée conforme, avec bouchon en verre creux à rodage normalisé. Inscriptions en couleur marron, livrées avec certificat*

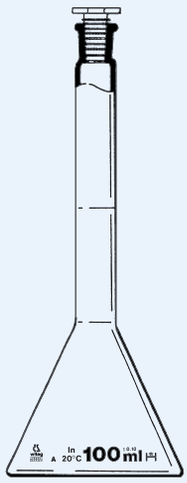
| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.025 | 7/16 | **3.668.000** |
| 5 | 0.040 | 10/19 | **3.668.015** |
| 10 | 0.025 | 7/16 | **3.668.001** |
| 10 | 0.040 | 10/19 | **3.668.012** |
| 15 * | 0.040 | 10/19 | **3.668.016** |
| 20 | 0.040 | 10/19 | **3.668.002** |
| 20 | 0.040 | 7/16 | **3.668.021** |
| 25 | 0.040 | 10/19 | **3.668.003** |
| 25 | 0.060 | 12/21 | **3.668.014** |
| 50 | 0.060 | 12/21 | **3.668.005** |
| 50 | 0.100 | 14/23 | **3.668.006** |
| 100 | 0.100 | 12/21 | **3.668.010** |
| 100 | 0.100 | 14/23 | **3.668.011** |
| 200 | 0.150 | 14/23 | **3.668.020** |
| 250 | 0.150 | 14/23 | **3.668.025** |
| 500 | 0.250 | 19/26 | **3.668.050** |
| 1000 | 0.400 | 24/29 | **3.668.100** |
| 1000 | 0.600 | 29/32 | **3.668.101** |
| 2000 | 0.600 | 29/32 | **3.668.200** |
| 5000 | 1.200 | 34/35 | **3.668.500** |

* not EN ISO / *sans EN ISO*




**3.668.*****

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***




**3.669.*****

**Volumetric flasks, trapezoidal, class A,** conformity certified, with ST-Ppolyethylene stoppers, DIFFICO brown or blue graduated, made of borosilicate glass, with certificate in the box

***Fioles jaugées trapézodiales en verre borosilicaté, classe A,*** *certifiée conforme, avec bouchon en polyéthylène à rodage normalisé. Inscriptions en couleur marron ou bleu, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Brown graduation<br>*Graduation en couleur marron* | Blue graduation<br>*Graduation en couleur bleu* |
|---|---|---|---|---|
| 1 | 0.025 | 7/16 | **3.669.000** | **3.669.000 BL** |
| 2 | 0.025 | 7/16 | **3.669.001** | **3.669.001 BL** |
| 3 * | 0.025 | 7/16 | **3.669.002** | **3.669.002 BL** |
| 5 | 0.025 | 7/16 | **3.669.003** | **3.669.003 BL** |
| 5 | 0.040 | 10/19 | **3.669.015** | **3.669.015 BL** |
| 10 | 0.025 | 7/16 | **3.669.005** | **3.669.005 BL** |
| 10 | 0.040 | 10/19 | **3.669.010** | **3.669.010 BL** |
| 20 | 0.040 | 7/16 | **3.669.020** | **3.669.020 BL** |
| 25 | 0.040 | 10/19 | **3.669.025** | **3.669.025 BL** |
| 25 | 0.060 | 12/21 | **3.669.014** | **3.669.014 BL** |
| 50 | 0.060 | 12/21 | **3.669.050** | **3.669.050 BL** |
| 50 | 0.100 | 14/23 | **3.669.100** | **3.669.100 BL** |
| 100 * | 0.100 | 12/21 | **3.669.200** | **3.669.200 BL** |
| 100 * | 0.100 | 14/23 | **3.669.500** | **3.669.500 BL** |

* not EN ISO / *sans EN ISO*



**3.670.*****

**Volumetric flasks, class A**
conformity certified with ST-hollow glass stoppers DIFFICO white, made of amber borosilicate glass, with certificate in the box

***Fioles jaugées en verre brun borosilicaté, classe A*** *certifiée conforme, avec bouchon en verre creux blanc à rodage normalisé. Inscriptions en couleur blanche, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.025 | 7/16 | **3.670.000** |
| 5 | 0.040 | 10/19 | **3.670.015** |
| 10 | 0.025 | 7/16 | **3.670.001** |
| 10 | 0.040 | 10/19 | **3.670.012** |
| 15 * | 0.040 | 10/19 | **3.670.016** |
| 20 | 0.040 | 10/19 | **3.670.002** |
| 20 | 0.040 | 7/16 | **3.670.021** |
| 25 | 0.040 | 10/19 | **3.670.003** |
| 25 | 0.060 | 12/21 | **3.670.014** |
| 50 | 0.060 | 12/21 | **3.670.005** |
| 50 | 0.100 | 14/23 | **3.670.006** |
| 100 | 0.100 | 12/21 | **3.670.010** |
| 100 | 0.100 | 14/23 | **3.670.011** |
| 200 | 0.150 | 14/23 | **3.670.020** |
| 250 | 0.150 | 14/23 | **3.670.025** |
| 500 | 0.250 | 19/26 | **3.670.050** |
| 1000 | 0.400 | 24/29 | **3.670.100** |
| 1000 | 0.600 | 29/32 | **3.670.101** |
| 2000 | 0.600 | 29/32 | **3.670.200** |
| 5000 | 1.200 | 34/35 | **3.670.500** |

* not EN ISO / *sans EN ISO*

**All volumetric flasks are available with:**

- individual certificate
- official govermental certicate
- add. certificate govermental tested

***Toutes les fioles sont disponibles avec:***

- *Certificat individuel*
- *Certificat officiel*
- *Certificat officiel additionnel*

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**

***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4***

**Volumetric flasks, class A**
conformity certified with ST-Polyethylene stoppers DIFFICO white, made of amber borosilicate glass, with certificate in the box

***Fioles jaugées en verre brun borosilicaté, classe A*** *certifiée conforme, avec bouchon en polyéthylène à rodage normalisé. Inscriptions en couleur marron, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.025 | 7/16 | **3.670.000 P** |
| 5 | 0.040 | 10/19 | **3.670.015 P** |
| 10 | 0.025 | 7/16 | **3.670.001 P** |
| 10 | 0.040 | 10/19 | **3.670.012 P** |
| 15 * | 0.040 | 10/19 | **3.670.016 P** |
| 20 | 0.040 | 10/19 | **3.670.002 P** |
| 20 | 0.040 | 7/16 | **3.670.021 P** |
| 25 | 0.040 | 10/19 | **3.670.003 P** |
| 25 | 0.060 | 12/21 | **3.670.014 P** |
| 50 | 0.060 | 12/21 | **3.670.005 P** |
| 50 | 0.100 | 14/23 | **3.670.006 P** |
| 100 | 0.100 | 12/21 | **3.670.010 P** |
| 100 | 0.100 | 14/23 | **3.670.011 P** |
| 200 | 0.150 | 14/23 | **3.670.020 P** |
| 250 | 0.150 | 14/23 | **3.670.025 P** |
| 500 | 0.250 | 19/26 | **3.670.050 P** |
| 1000 | 0.400 | 24/29 | **3.670.100 P** |
| 1000 | 0.600 | 29/32 | **3.670.101 P** |
| 2000 | 0.600 | 29/32 | **3.670.200 P** |
| 5000 | 1.200 | 34/35 | **3.670.500 P** |

* not EN ISO / *sans EN ISO*

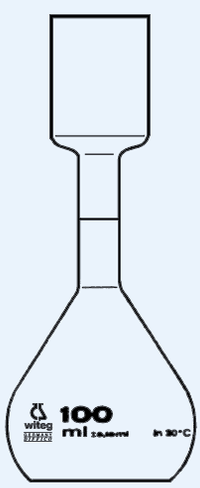


**3.670.*****

**Volumetric flasks, acc. to Kohlrausch,** for sugar analysis, blue graduation, made of borosilicate glass

***Fioles jaugées selon Kohlrausch,*** *pour l'analyse des sucres, en verre borosilicaté avec graduations bleues*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 100 | **3.671.100** |
| 200 | **3.671.200** |




**3.671.*****

**Viscometer flask, acc. to Engler,** 2 ring marks, blue graduation, made of borosilicate glass

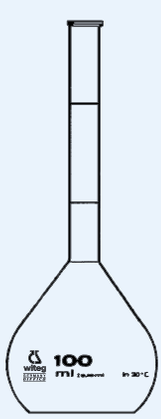
***Fiole jaugée d'Engler,*** *en verre borosilicaté à 2 traits et graduations bleues*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 100 + 100 | 0.1 | **3.671.201** |

**Volumetric flasks, for sugar analysis,** with 2 marks, made of borosilicate glass

***Fioles jaugées pour l'analyse des sucres,*** *en verre borosilicaté à 2 traits*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 50/55 | **3.672.050** |
| 100/110 | **3.672.100** |
| 200/220 | **3.672.200** |

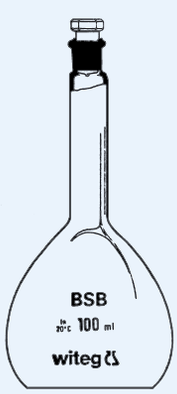



**3.672.*****

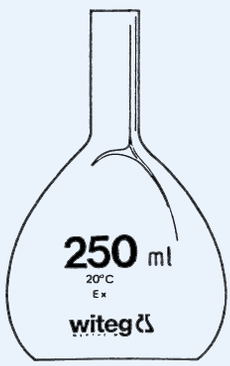
**BOD bottles**
for water treatment, complete with interchangeable ST-hollow glass stopper, no need to select bottle-stopper after cleaning, made of borosilicate glass

***Flacons pour la DBO,*** *en verre borosilicaté complet avec bouchon en verre creux interchangeable à rodage normalisé*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 14/23 | **3.675.001** |
| 100 | 29/32 | **3.675.002** |




**3.675.*****




**3.685.*****

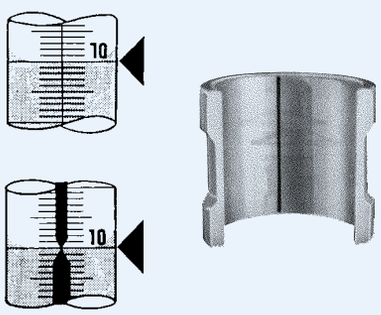
**Over-flow-flasks, volumetric,** for water treatment, cuted and grounded exactly at the volume-mark, without stopper, class B, made of borosilicate glass

***Fioles jaugées à débordement,***
*en verre borosilicaté, pour le traitement des eaux, sans bouchon, Classe B, parfaitement coupées et rodées*

| Capacity<br>*Capacité*<br>ml | Suitable for instruments of<br>*Compatibles aux instruments de*<br>HACH | H&V | WTW | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 21.7 | X | | | **3.685.021** |
| 22.7 | | | X | **3.685.022** |
| 43.5 | | | X | **3.685.044** |
| 56.0 | X | X | | **3.685.056** |
| 94.0 | X | X | | **3.685.094** |
| 97.0 | | | X | **3.685.097** |
| 100.0 | X | X | X | **3.685.100** |
| 110.0 | X | X | X | **3.685.110** |
| 150.0 | X | X | X | **3.685.150** |
| 157.0 | X | X | | **3.685.157** |
| 164.0 | | | X | **3.685.164** |
| 200.0 | X | X | X | **3.685.200** |
| 244.0 | X | X | | **3.685.244** |
| 250.0 | | | X | **3.685.250** |
| 275.0 | X | X | X | **3.685.275** |
| 285.0 | X | X | X | **3.685.285** |
| 300.0 | X | X | X | **3.685.300** |
| 360.0 | X | X | | **3.685.360** |
| 365.0 | | | X | **3.685.365** |
| 428.0 | X | | X | **3.685.428** |
| 432.0 | | | X | **3.685.432** |
| 450.0 | X | X | X | **3.685.450** |
| 650.0 | X | X | X | **3.685.650** |
| 700.0 | X | X | X | **3.685.700** |
| 740.0 | X | X | X | **3.685.740** |

**Clip - the reading aid**
made of Polypropylene (PP), white colour, with grip deepening, unbreakable, with permanent clamping effect, resistant to acids and alkalis, as replacement for self-created back-ground on clear glass measuring instruments, for better recognizing and adjusting the liquid level onto graduations and ring marks, packed 10 pcs. in plastic bag in a carton

***Clips de lecture,***
*en polypropyléne (PP), blanche incassable et résistante aux acides, permet de mieux régler et ajuster le niveau du liquide sur les graduations des instruments de mesure en verre. Emballage standard de 10 pièces*




**3.690.*****

**Schellbach clip, white with blue line**
**Field of application:**
For all measuring instruments in the field of medicine, chemistry and industry
**Handling:**
Adjusting height like that of the MEDICO-clip. Reading is effected in the same way as you do it with Schellbach blue line. The measuring device is brought at eye-level and is read exactly at the points of contact of the arrow-heads which developed on a Schellbach blue line.

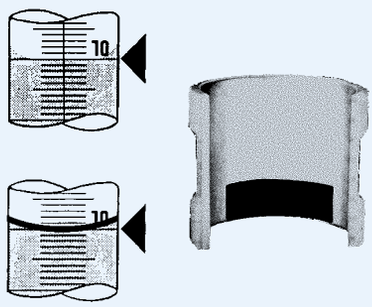
***Clip de Schellbach, blanc avec bande bleue.***
***Champs d'applications:***
*Pour tous les instruments de mesure en verre dans la médecine, la chimie et l'industrie. Même lecture qu'avec la bande en émail bleue de Schellbach*

| Clip Ø<br>mm | Length<br>*Longueur*<br>mm | For tube Ø, from - to<br>*Pour tubes de dia. de -*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4.0 | 36 | 4.2 - 5.5 | **3.690.001** |
| 6.0 | 36 | 6.1 - 7.5 | **3.690.002** |
| 9.8 | 36 | 10.0 - 13.3 | **3.690.003** |
| 13.5 | 36 | 13.8 - 17.0 | **3.690.004** |
| 18.4 | 36 | 18.5 - 22.0 | **3.690.005** |
| 24.8 | 36 | 25.0 - 29.5 | **3.690.006** |
| 32.5 | 36 | 33.0 - 42.0 | **3.690.007** |

**Contrast clip,** black on white

***Clip de contraste,*** *noir sur blanc*

| Clip Ø<br>mm | Length<br>*Longueur*<br>mm | For tube Ø, from - to<br>*Pour tubes de dia. de -*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4.0 | 36 | 4.2 - 5.5 | **3.691.001** |
| 6.0 | 36 | 6.1 - 7.5 | **3.691.002** |
| 9.8 | 36 | 10.0 - 13.3 | **3.691.003** |
| 13.5 | 36 | 13.8 - 17.0 | **3.691.004** |
| 18.4 | 36 | 18.5 - 22.0 | **3.691.005** |
| 24.8 | 36 | 25.0 - 29.5 | **3.691.006** |
| 32.5 | 36 | 33.0 - 42.0 | **3.691.007** |




**3.691.*****

**Assortment,** besides the packing unit of 10 pieces per size, we can also deliver an assortment of clips, size 1 - 7

***Assortiment de clips de la taille 1 à 7***

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| „Medico Clip“, white / *Clip Medico, blanc* | **3.692.000** |
| „Clip with Schellbach blue line“ / *Clip à bande bleue de Schellbach* | **3.693.000** |
| „Contrast-Clip“, black and white / *Clip de contraste, noir sur blanc* | **3.694.000** |

## Graduated cylinders
## *Eprouvettes graduées*

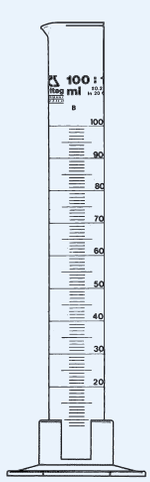
**Graduated cylinders, tall form class B,** short line graduation, acc. to EN ISO 4788, „In“, with acid and alkali resistant DIFFICO amber stain graduation and inscriptions. Better than class B accuracy, within the tolerances for officially tested graduated cylinders, made of borosilicate glass

***Eprouvettes graduées forme haute, à bec en verre borosilicaté, classe B,*** *graduations et inscriptions à haute résistance chimique de couleur marron, selon EN ISO 4788*

**Graduated cylinder, class DIN-B,** short line graduation, made of Borosilicate glass, with plastic bases and protection collar, made of Polypropylene

***Eprouvettes graduées forme haute, à bec en verre borosilicaté, classe B,*** *graduations et inscriptions à haute résistance chimique de couleur marron, livrées avec base hexagonale et collier de protection en polypropylène*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.1 | ± 0.08 | **3.700.000** |
| 10 | 0.2 | ± 0.15 | **3.700.001** |
| 25 | 0.5 | ± 0.40 | **3.700.003** |
| 50 | 1.0 | ± 0.80 | **3.700.005** |
| 100 | 1.0 | ± 0.80 | **3.700.010** |
| 250 | 2.0 | ± 1.50 | **3.700.025** |
| 500 | 5.0 | ± 4.00 | **3.700.050** |
| 1000 | 10.0 | ± 8.00 | **3.700.100** |
| 2000 | 20.0 | ± 15.00 | **3.700.200** |




**3.700.*****

**Spare hexagonal base,** made of Polypropylene (PP)

***Base hexagonale*** *en polypropylène, de rechange*

| For capacity<br>*Pour capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 5 | **3.701.000** |
| 10 | **3.701.001** |
| 25 | **3.701.003** |
| 50 | **3.701.005** |
| 100 | **3.701.010** |
| 250 | **3.701.025** |
| 500 | **3.701.050** |
| 1000 | **3.701.100** |

**Spare protection collar,**
made of Polypropylene (PP)

***Collier de protection*** *en polypropylène, de rechange*

| For capacity<br>*Pour capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 5 | **3.702.000** |
| 10 | **3.702.001** |
| 25 | **3.702.003** |
| 50 | **3.702.005** |
| 100 | **3.702.010** |
| 250 | **3.702.025** |
| 500 | **3.702.050** |
| 1000 | **3.702.100** |

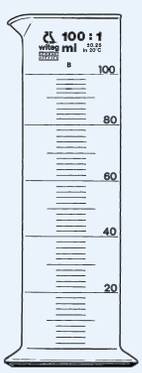


**3.705.*****

**Graduated cylinder, class B,** short line graduation, with hexagonal base, made of DURAN

***Eprouvettes graduées forme haute,*** *à bec et base hexagonale, en verre borosilicaté, classe B*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.1 | ± 0.08 | **3.705.000** |
| 10 | 0.2 | ± 0.15 | **3.705.001** |
| 25 | 0.5 | ± 0.40 | **3.705.003** |
| 50 | 1.0 | ± 1.00 | **3.705.005** |
| 100 | 1.0 | ± 1.00 | **3.705.010** |
| 250 | 2.0 | ± 1.50 | **3.705.025** |
| 500 | 5.0 | ± 4.00 | **3.705.050** |
| 1000 | 10.0 | ± 8.00 | **3.705.100** |
| 2000 | 20.0 | ± 15.00 | **3.705.200** |




**3.707.*****

**Graduated cylinder, low shape, class B,** acc. to EN ISO 4788, short line graduation, „ln", with acid and alkali resistant DIFFICO amber stain graduation and inscriptions, with hexagonal base and spout, made of DURAN

***Eprouvettes graduées forme basse,*** *à bec et base hexagonale, en verre borosilicaté, classe B, graduations et inscriptions à haute résistance chimique de couleur marron, selon EN ISO 4788*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 1.0 | ± 0.20 | **3.707.000** |
| 10 | 1.0 | ± 0.30 | **3.707.001** |
| 25 | 1.0 | ± 0.50 | **3.707.003** |
| 50 | 2.0 | ± 1.00 | **3.707.005** |
| 100 | 2.0 | ± 1.00 | **3.707.010** |
| 250 | 5.0 | ± 2.00 | **3.707.025** |
| 500 | 10.0 | ± 5.00 | **3.707.050** |
| 1000 | 20.0 | ± 10.00 | **3.707.100** |
| 2000 | 50.0 | ± 20.00 | **3.707.200** |



**3.715.*****

**Graduated cylinders, tall form class A, conformity certified, main point ring-graduation, with hexagonal base and spout acc. to EN ISO 4788, „ln"**
With acid and alkali resistant DIFFICO amber stain graduation and inscriptions, which form an integral, absolutely indelible part of glass surface

***Eprouvettes graduées forme haute, à bec et base hexagonale en verre borosilicaté, classe AS certifiée conforme,*** *graduations et inscriptions à haute résistance chimique de couleur marron, selon EN ISO 4788*

**Graduated cylinder, class A**
conformity certified, main point ring-graduation, made of DURAN, with certificate in the box

***Eprouvettes graduées forme haute, classe AS*** *certifiée conforme à bec et base hexagonale en verre borosilicaté, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.1 | ± 0.05 | **3.715.000** |
| 10 | 0.2 | ± 0.10 | **3.715.001** |
| 25 | 0.5 | ± 0.25 | **3.715.003** |
| 50 | 1.0 | ± 0.50 | **3.715.005** |
| 100 | 1.0 | ± 0.50 | **3.715.010** |
| 250 | 2.0 | ± 1.00 | **3.715.025** |
| 500 | 5.0 | ± 2.50 | **3.715.050** |
| 1000 | 10.0 | ± 5.00 | **3.715.100** |
| 2000 | 20.0 | ± 10.00 | **3.715.200** |

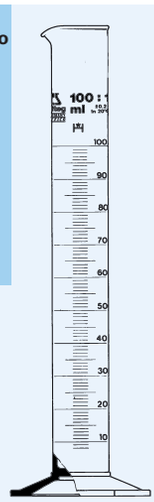
**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*

**Graduated cylinder, class A**
conformity certified, main point ring-graduation, DIFFICO blue, made of DURAN, with certificate in the box

***Eprouvettes graduées forme haute, classe AS*** *certifiée conforme, à bec et base hexagonale en verre borosilicaté, graduations et inscriptions en couleur bleu, livrées avec certificat*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0.1 | ± 0.05 | **3.715.000 BL** |
| 10 | 0.2 | ± 0.10 | **3.715.001 BL** |
| 25 | 0.5 | ± 0.25 | **3.715.003 BL** |
| 50 | 1.0 | ± 0.50 | **3.715.005 BL** |
| 100 | 1.0 | ± 0.50 | **3.715.010 BL** |
| 250 | 2.0 | ± 1.00 | **3.715.025 BL** |
| 500 | 5.0 | ± 2.50 | **3.715.050 BL** |
| 1000 | 10.0 | ± 5.00 | **3.715.100 BL** |
| 2000 | 20.0 | ± 10.00 | **3.715.200 BL** |

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
*Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/3 et 171/4*



**3.715.*** BL**

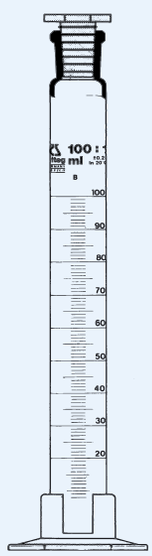
**Graduated cylinders, stoppered ST-Polypropylene-stoppers acc. to EN ISO 4788,** made of Borosilicate glass, with acid and alkali resistant DIFFICO amber stain graduation and inscriptions, which form an integral, absolutely indelible part of glass surface, „In“

***Eprouvettes graduées forme haute en verre borosilicaté, classe B,*** *avec bouchon en polypropylène à rodage normalisé, graduations et inscriptions en couleur marron, selon EN ISO 4788*

**Graduated cylinder, stoppered, class B**
short line graduation, made of Borosilicate glass, with hexagonal base made of Polypropylene (PP)

***Eprouvettes graduées forme haute, classe B,*** *en verre borosilicaté avec base hexagonale en polypropylène, avec bouchon en polypropylène à rodage normalisé, graduations et inscriptions en couleur marron*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | ± 0.15 | 10/19 | **3.750.001** |
| 25 | 0.5 | ± 0.40 | 14/23 | **3.750.003** |
| 50 | 1.0 | ± 0.80 | 19/26 | **3.750.005** |
| 100 | 1.0 | ± 0.80 | 24/29 | **3.750.010** |
| 250 | 2.0 | ± 1.50 | 29/32 | **3.750.025** |
| 500 | 5.0 | ± 4.00 | 34/35 | **3.750.050** |
| 1000 | 10.0 | ± 8.00 | 45/40 | **3.750.100** |
| 2000 | 20.0 | ± 15.00 | 45/40 | **3.750.200** |

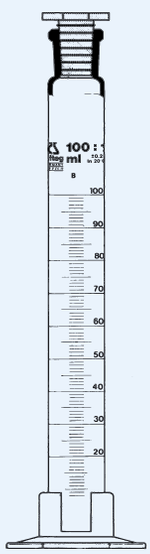


**3.750.***

**Graduated cylinder, threaded, class B**
short line graduation, with screw thread and screw cap, with hexagonal base, made of Borosilicate glass

***Eprouvettes graduées à filetage, classe B,*** *forme haute à base hexagonale en verre borosilicaté, avec bouchon à vis en polypropylène, graduations et inscriptions en couleur marron*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Screw thread<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | ± 0.15 | 14 | **3.751.001** |
| 25 | 0.5 | ± 0.40 | 18 | **3.751.003** |
| 50 | 1.0 | ± 0.80 | 25 | **3.751.005** |
| 100 | 1.0 | ± 0.80 | 32 | **3.751.010** |
| 250 | 2.0 | ± 1.50 | 45 | **3.751.025** |
| 500 | 5.0 | ± 4.00 | 45 | **3.751.050** |
| 1000 | 10.0 | ± 8.00 | 45 | **3.751.100** |

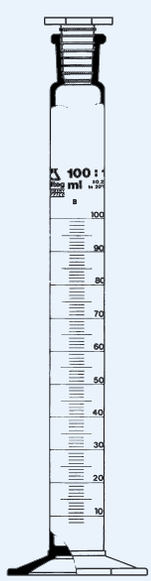


**3.751.***

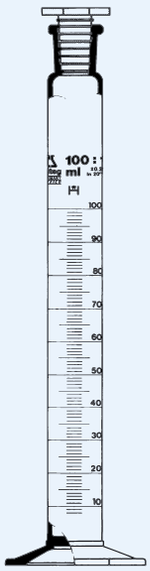
**Graduated cylinder, stoppered class B,**
short line graduation with hexagonal base, made of Borosilicate glass

***Eprouvettes graduées, forme haute à base hexagonale en verre borosilicaté, classe B,*** *avec bouchon en polypropylène à rodage normalisé, graduations et inscriptions en couleur marron*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | ± 0.15 | 10/19 | **3.752.001** |
| 25 | 0.5 | ± 0.40 | 14/23 | **3.752.003** |
| 50 | 1.0 | ± 0.80 | 19/26 | **3.752.005** |
| 100 | 1.0 | ± 0.80 | 24/29 | **3.752.010** |
| 250 | 2.0 | ± 1.50 | 29/32 | **3.752.025** |
| 500 | 5.0 | ± 4.00 | 34/35 | **3.752.050** |
| 1000 | 10.0 | ± 8.00 | 45/40 | **3.752.100** |
| 2000 | 20.0 | ± 15.00 | 45/40 | **3.752.200** |



**3.752.***



**3.754.*****

**Graduated cylinder, stoppered class A** conformity certified main point ring-graduation, with hexagonal base, made of Borosilicate glass, with certificate in the box

***Eprouvettes graduées, forme haute à base hexagonale en verre borosilicaté, classe A*** *certifiée conforme, avec bouchon en polypropylène à rodage normalisé, graduations et inscriptions en couleur marron*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | ± 0.10 | 10/19 | **3.754.001** |
| 25 | 0.5 | ± 0.25 | 14/23 | **3.754.003** |
| 50 | 1.0 | ± 0.50 | 19/26 | **3.754.005** |
| 100 | 1.0 | ± 0.50 | 24/29 | **3.754.010** |
| 250 | 2.0 | ± 1.00 | 29/32 | **3.754.025** |
| 500 | 5.0 | ± 2.50 | 34/35 | **3.754.050** |
| 1000 | 10.0 | ± 5.00 | 45/40 | **3.754.100** |
| 2000 | 20.0 | ± 10.00 | 45/40 | **3.754.200** |

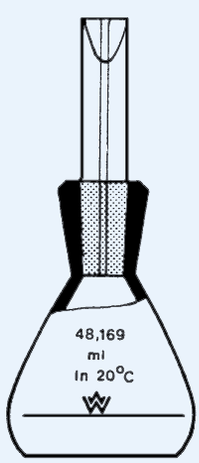
**Graduated cylinder, stoppered class A conformity certified,** main point ring-graduation, with hexagonal base, DIFFICO blue, made of Borosilicate glass, with certificate in the box

***Eprouvettes graduées forme haute avec base hexagonale en verre borosilicaté, classe A*** *certifiée conforme, avec bouchon en polypropylène à rodage normalisé, graduations et inscriptions en couleur bleu*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | ± 0.10 | 10/19 | **3.754.001 BL** |
| 25 | 0.5 | ± 0.25 | 14/23 | **3.754.003 BL** |
| 50 | 1.0 | ± 0.50 | 19/26 | **3.754.005 BL** |
| 100 | 1.0 | ± 0.50 | 24/29 | **3.754.010 BL** |
| 250 | 2.0 | ± 1.00 | 29/32 | **3.754.025 BL** |
| 500 | 5.0 | ± 2.50 | 34/35 | **3.754.050 BL** |
| 1000 | 10.0 | ± 5.00 | 45/40 | **3.754.100 BL** |
| 2000 | 20.0 | ± 10.00 | 45/40 | **3.754.200 BL** |

**Certificates for WITEG Diffico volumetric instruments, please refer to pages 171/1 and 171/2**
***Pour les Certificats des instruments volumétriques Diffico de WITEG, veuillez svp vous référer aux pages 171/1 et 171/2***

## Pycnometers
## *Pycnomètres*




**3.900.*****
**-**
**3.902.*****

**Pycnometers (specific gravity bottles),** acc. to Gay-Lussac, class B accuracy, unadjusted, with ground-in capillary stopper, capacity mark indicated at the bottom, acc. to ISO 3507, made of Borosilicate glass

***Pycnomètres de Gay-Lussac en verre, classe B,*** *non-calibré, avec bouchon rodé à tube capillaire et indication du volume à la base, selon ISO 3507, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 1 | **3.900.001** |
| 2 | **3.900.002** |
| 5 | **3.900.005** |
| 10 | **3.900.010** |
| 25 | **3.900.025** |
| 50 | **3.900.050** |
| 100 | **3.900.100** |

**Pycnometers (specific gravity bottles),** acc. to Gay-Lussac, with ground-in capillary stopper, precisely adjusted to the second place of decimal, acc. to ISO 3507, made of Borosilicate glass

***Pycnomètres de Gay-Lussac en verre, classe A,*** *calibré, avec bouchon rodé à tube capillaire et indication du volume à la base, selon ISO 3507, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 1 | 0.006 | **3.902.001** |
| 2 | 0.006 | **3.902.002** |
| 5 | 0.006 | **3.902.005** |
| 10 | 0.008 | **3.902.010** |
| 25 | 0.01 | **3.902.025** |
| 50 | 0.016 | **3.902.050** |
| 100 | 0.024 | **3.902.100** |

**Pycnometers,** with thermometer ST 10/19 and side tube with ST 7/16 cap, unadjusted, with ground-in capillary stopper, capacity mark indicated at the bottom, acc. to ISO 3507, made of Borosilicate glass

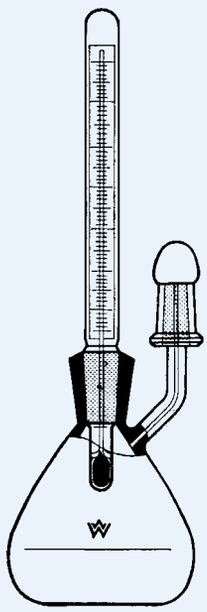
***Pycnomètres*** *en verre avec thermomètre intégré à rodage normalisé 10/19 et tube latéral à rodage 7/19, non-calibré, avec bouchon rodé à tube capillaire et indication du volume à la base, selon ISO 3507, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Thermometer<br>*Thermomètre*<br>° C | Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 0 - 35 | 0.2 | **3.920.005** |
| 10 | 0 - 35 | 0.2 | **3.920.010** |
| 25 | 0 - 35 | 0.2 | **3.920.025** |
| 50 | 0 - 35 | 0.2 | **3.920.050** |
| 100 | 0 - 35 | 0.2 | **3.920.100** |

**Pycnometers,** with thermometer ST 10/19 and side tube with ST 7/16 cap, weighed out up to the second place of decimal, acc. to ISO 3507, made of Borosilicate glass

***Pycnomètres*** *en verre avec thermomètre intégré à rodage normalisé 10/19 et tube latéral à rodage 7/19, calibré, avec bouchon rodé à tube capillaire et indication du volume à la base, selon ISO 3507, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Thermometer<br>*Thermomètre*<br>° C | Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 0.006 | 0 - 35 | 0.2 | **3.922.005** |
| 10 | 0.008 | 0 - 35 | 0.2 | **3.922.010** |
| 25 | 0.010 | 0 - 35 | 0.2 | **3.922.025** |
| 50 | 0.016 | 0 - 35 | 0.2 | **3.922.050** |
| 100 | 0.024 | 0 - 35 | 0.2 | **3.922.100** |

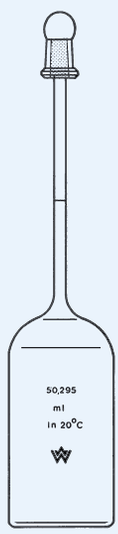


**3.920.*****
**-**
**3.922.*****

**Pycnometers, acc. to Reischauer,** with cap 5/13,weighed out up to the second place of decimal, acc. to ISO 3507, made of Borosilicate glass

***Pycnomètres de Reischauer*** *en verre borosilicaté, avec bouchon à rodage normalisé 5/13, calibré, selon ISO 3507*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 5 | 0.006 | **3.930.005** |
| 10 | 0.008 | **3.930.010** |
| 25 | 0.01 | **3.930.025** |
| 50 | 0.016 | **3.930.050** |
| 100 | 0.024 | **3.930.100** |

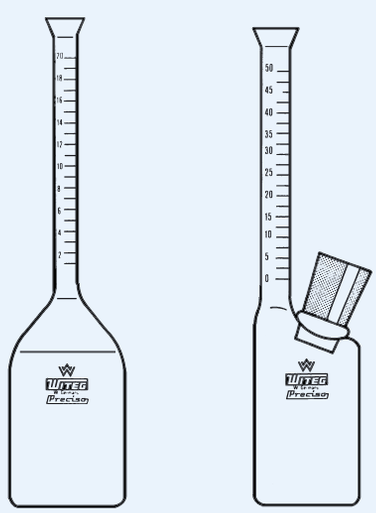



**3.930.*****

**Pycnometers (Bottle-Babcock, Paley),** for milk test, cheese test, cream test, made of borosilicate glass

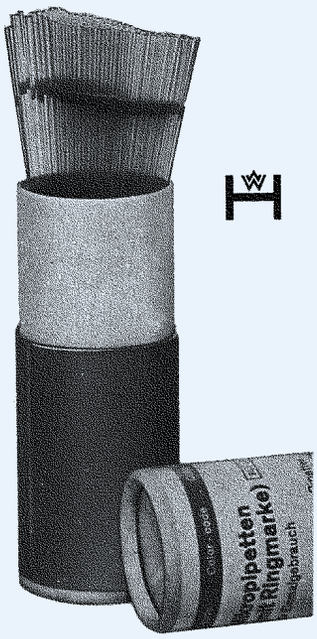
***Pycnomètres (Flacon de Babcock, Paley)*** *pour lait, fromage et crème, en verre borosilicaté*

| Type<br>*Type* | Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| Cheese and ice cream / *Fromage et crème glacée* | 20 | 0.2 | **3.935.001** |
| Cheese / *Fromage* | 50 | 0.5 | **3.935.002** |
| Ice cream / *Crème glacée* | 20 | 0.2 | **3.935.003** |
| Milk / *Lait* | 8 | 0.1 | **3.935.004** |
| Milk / *Lait* | 10 | 0.1 | **3.935.005** |
| Cream / *Crème* | 50 | 0.5 | **3.935.006** |



**3.935.*****

# Pipetting
## *Pipettes*




**4.000.*****

**Disposable micro-pipettes,** with circular mark, made from precision-bore tubing. The suction side end is fire polished.
250 pipettes per cardboard cylinder
Accuracy ≤ ± 0.25 %
Variation 0.5 %

***Micropipettes à usage unique en verre,*** *avec trait circulaire, précision 0.5%. Conditionnement de 250 pièces*

| Capacity<br>*Capacité*<br>µl | Order No.<br>*N° de code* |
|---|---|
| 1/2/3/4/5 * | **4.000.005** |
| 10 | **4.000.010** |
| 20 | **4.000.020** |
| 25 | **4.000.025** |
| 20+40 | **4.000.040** |
| 40 | **4.000.042** |
| 44.7 ** | **4.000.044** |
| 44.7 hep. ** | **4.000.047** |
| 50 | **4.000.052** |
| 100 | **4.000.100** |
| 50+100 | **4.000.150** |
| 200 | **4.000.200** |

* Conformity certified for ring mark 5 µl / *Certifié conforme avec trait à 5µl*
** In addition to ISO / *Additionnellement à ISO*



**4.004.*****

**Disposable pipettes, acc. to Prof. Delbrück** conformity certified
Rectification ≤ ± 0.5 %
Precision ≤ 0.1 %

***Micropipettes selon le Prof. Delbrück,*** *à usage unique et certifiées conforme, de précision +/-0.5%*

| Capacity<br>*Capacité*<br>µl | pcs. per cylinder<br>*Quantité par boite* | Order No.<br>*N° de code* |
|---|---|---|
| 20 hep. | 100 | **4.004.020** |
| 40 hep. | 100 | **4.004.040** |
| 60 hep. | 100 | **4.004.060** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Pipette holder / *Porte-pipette* | **4.004.050** |



**4.004.050**

**Disposable pipettes, end to end,** are made of precision bore tubing, with neatly cut ends
Rectification ≤ ± 0.25 %
250 pieces per cardboard cylinder, including one short pipetting aid

***Micropipettes à usage unique en verre de récision, bout à bout,*** *conditionnement de 250 pièces, livré avec un dispositif de prélèvement court*

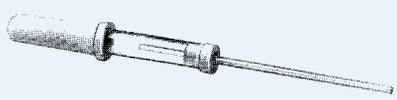
| Capacity<br>*Capacité*<br>µl | Order No.<br>*N° de code* |
|---|---|
| 1 | **4.005.001** |
| 2 | **4.005.002** |
| 3 | **4.005.003** |
| 4 | **4.005.004** |
| 5 | **4.005.005** |
| 10 | **4.005.010** |
| 20 | **4.005.020** |
| 25 | **4.005.025** |
| 44.7* | **4.005.044** |
| 44.7 hep.* | **4.005.047** |
| 50 | **4.005.050** |
| 100 | **4.005.100** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Pipetting aid, short type / *Dispositif de prélèvement, type court* | **4.007.001** |
| Rubber stopper / *Dispositif de prélèvement, type court* | **4.007.003** |



**4.005.*****

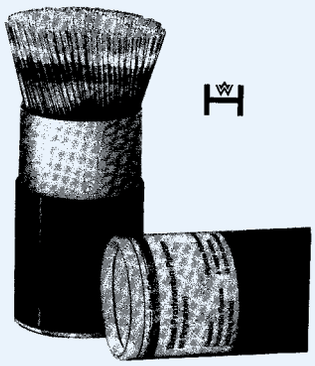


**4.007.*****

**Disposable-Prothrombin-pipettes, with circular marks, conformity certified,** made of precision bore tubing, upper end fire-polished, calibrated to deliver
Rectification ≤ ± 0.25 %
250 pieces per cardboard cylinder

***Pipettes pour Prothrombine à traits circulaires, certifiées conforme,*** *à usage unique, en verre de précision. Conditionnement de 250 pièces*

| Capacity<br>*Capacité*<br>ml | Tolerance<br>*Tolérance*<br>µl | Colour code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.1-0.2 | 2 | ● | **4.010.000** |



**4.010.*****

**Disposable-Haematocrit tubes for blood taking, ungraduated,** with Colour-Code and fire-polished ends.
Length 75 mm ± 0.02 mm
Wall thickness 0.2 mm ± 0.02 mm
internal Ø 1.1 - 1.2 mm
100 pieces in transparent dispenser tube

***Tubes à hématocrite à usage unique, pour prise de sang, non-gradués.***
*Longueur 75 mm +/-0.02 mm*
*Epaisseur 0.2 +/- 0.02 mm*
*Diamètre intérieur 1.1-1.2 mm*
*Conditionnement de 100 pièces*

| Capacity<br>*Capacité*<br>ml | Colour code<br>*Code couleur* | heparinized<br>*Héparanisés* | Order No.<br>*N° de code* |
|---|---|---|---|
| 40 | ● | hep. | **4.015.010** |
| 40 | ● | | **4.015.020** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Pipette holder / *Porte-pipette* | **4.015.011** |



**4.015.*****

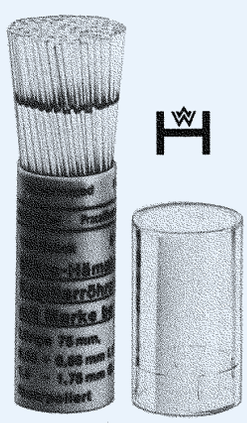
**Disposable-Haematocrit tubes for blood taking, with circular mark at 60 mm,** ends fire-polished.
Length 75 mm
Inner Ø 0.55 mm ± 0.05 mm
Outer Ø 1.4 mm - 1.75 mm
100 pieces in transparent dispenser tube

***Tubes à hématocrite à usage unique, pour prise de sang, avec trait circulaire à 60 mm.***
*Longueur 75 mm +/-0.02 mm,*
*Intérieur 0.55 +/-0.05 mm Ø*
*Extérieur 1.4 -1.75 mm Ø*
*Conditionnement de 100 pièces*

| heparinized<br>*Héparanisés* | Order No.<br>*N° de code* |
|---|---|
| hep. | **4.020.000** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Pipette holder / *Porte-pipette* | **4.020.001** |



**4.020.*****

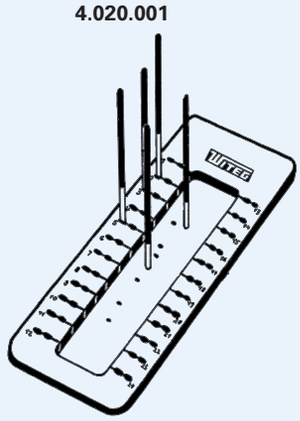


**4.015.011**
**4.020.001**

**Haematocrit-sealing wax**
This is a special sealing wax on a plate for rapid, reliable sealing of several hundred micro-haematocrit tubes
6 pcs. in a standard box

***Cire spéciale pour celler les tubes à hématocrite***
*Conditionnement de 6 pièces*

| Order No.<br>*N° de code* |
|---|
| **4.025.000** |



**4.025.*****

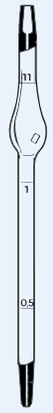



**4.050.*****

**Blood diluting pipettes, acc. to Thoma, white enamelled (erytrocytes),** dilution graduation 1 : 100 with marks at 0.5-1-101, without blood diluting tube and plastic mouth-piece

***Pipettes de dilution sanguine selon Thoma, en émail blanc (érytrocytes),*** *graduation de dilution 1:100 avec traits à 0.5-1-101, sans tube et sans pièce en plastique*

| Marks at<br>*Traits à* | Tolerance<br>*Tolérance*<br>% | Remarks<br>*Remarques* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5-1-101 | 3 | suitable for certication<br>*Pour étalonnage* | **4.050.000** |
| 0.5-1-101 | 3 | officially tested and stamped<br>*Avec certificat d''étalonnage officiel* | **4.050.010** |
| Blood diluting pipettes in other size by request<br>*Autres pipettes de dilution sanguine sur demande* | | | |




**4.060.*****

**Blood diluting pipettes, acc. to Thoma, white enamelled (erytorcytes),** dilution graduation 1 : 10 with marks at 0.5-1-11, without blood diluting tube and plastic mouth-piece

***Pipettes de dilution sanguine selon Thoma, en émail blanc (érytrocytes),*** *graduation de dilution 1:10 avec traits à 0.5-1-11, sans tube et sans pièce en plastique*

| Marks at<br>*Traits à* | Tolerance<br>*Tolérance*<br>% | Remarks<br>*Remarques* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5-1-11 | 3 | suitable for certication<br>*Pour étalonnage* | **4.060.000** |
| 0.5-1-11 | 3 | officially tested and stamped<br>*Avec certificat d''étalonnage officiel* | **4.060.010** |
| Blood diluting pipettes in other size by request<br>*Autres pipettes de dilution sanguine sur demande* | | | |

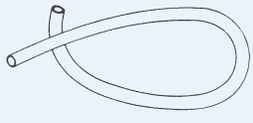



**4.070.*****

**Blood pipettes, acc. to Ellermann,** white enamelled

***Pipettes sanguines selon Ellermann,*** *émaillée blanche*

| Graduation<br>µl | Tolerance<br>*Tolérance*<br>% | Order No.<br>*N° de code* |
|---|---|---|
| 10-20-25 | 1 | **4.070.000** |





**4.080.800**
**-**
**4.080.810**



**4.080.820**
**-**
**4.080.830**

**4.080.840**



**4.080.850**

**Accessories for blood diluting pipettes**

***Accessoires pour pipettes de dilution sanguine***

| | Order No.<br>*N° de code* |
|---|---|
| Blood diluting tube, length 15 cm, red<br>*Tube de dilution de 15 cm, rouge* | **4.080.800** |
| Blood diluting tube, length 15 cm, transparent<br>*Tube de dilution de 15 cm, transparent* | **4.080.810** |
| Plastic mouth piece, red<br>*Embout en plastique, rouge* | **4.080.820** |
| Plastic mouth piece, white<br>*Embout en plastique, blanc* | **4.080.830** |
| Blood diluting pipettes closure, made of soft rubber<br>*Fermeture en caoutchouc souple* | **4.080.840** |
| Blood diluting pipettes rubber caps<br>*Capuchons en caoutchouc* | **4.080.850** |

**Shakers for blood diluting pipettes**
Thorough mixing of blood and reagents through simultaneous shaking and rotating action. Optimum reproduceability of cell counts. The precisely adjusted mixing power guarantees the controlled and uniform mixing effect for all pipettes (2 min). Numbering in pairs facilitates the identification of each pipette. Modern design of the case with elastic rubber-feet prevents creeping on the table surface.
For 220 V / 50 Hz or 110 V / 50 Hz

***Agitateurs pour pipettes de dilution sanguine,*** *à mouvement giratoire, pour l'agitation précise et uniformes de toutes les pipettes de dilution. Alimentation 230V-50Hz ou 110V-50Hz*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| For 2 blood diluting pipettes<br>*Pour 2 pipettes de dilution* | **4.095.001** |
| For 4 blood diluting pipettes<br>*Pour 4 pipettes de dilution* | **4.095.002** |



**4.095.*****

**Pasteur pipettes, disposable**
Capacity approx. 1.5 and 2 ml, with long tip. Capillary-inside diameter on the tip approx. 1 mm. Suction tube approx. 25 mm length. With mouth piece for cotton plugging, outside diameter of tube approx. 7 mm, body-length 90 mm, packed 250 pcs. in dispenser-box.

***Pipettes de Pasteur,*** *à usage unique, capacité 1.5 ml et 2 ml à tige longue ou courte. Avec embout pour cotonnage de diamètre 7 mm. Conditionnement de 250 pièces*

| Models<br>*Modèle* | Overall length / tip<br>*Longueur totale / tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Short<br>*Court* | 150/50 | **4.100.150** |
| Short, with cotton plugging<br>*Court avec embout de cotonnage* | 150/50 | **4.100.151** |
| Long<br>*Long* | 230/120 | **4.100.230** |
| Long, with cotton plugging<br>*Long, avec embout de contonnage* | 230/120 | **4.100.231** |
| Long, heavy wall<br>*Long, version robust* | 250/155 | **4.105.000** |


**4.100.150**


**4.100.230**

**Blood sedimentation system, PS/PD**
For rapid and safe realisation of ESR tests acc. to Westergren. A test tube 12 x 86 mm with labelling field is filled with sodiumcitrate. The included pipette is graduated from 0 to 180 mm. It may easyly filled with the small piston in the pipette.
Application:
1. The test tube is filled with blood up to the marking on the labelling field (approx. 1 ml).
2. The liquid is mixed by shaking and rotatation.
3. The pipette is fixed and the tube is filled up to the zero point.
4. 60 minutes later the result can be read.

***Appareil de sédimentation du sang selon Westergreen pour tests rapides ESR.***
*Un tube de 86 x 12mm est rempli de citrate de sodium. La pipette fournie est graduée de 0-180 mm. Il est facilement rempli avec le petit piston monté dans la pipette.*
*Application:*
*1. Le tube est rempli avec du sang jusqu'au trait (env. 1 ml).*
*2. Le liquide est mélangé par agitation giratoire.*
*3. La pipette est fixée et le tube est rempli jusqu'au repère zéro*
*4. 60 mn après on peut lire le résultat.*

| Type<br>*Type* | Overall length/tip<br>*Longueur totale / tige* | Order No.<br>*N° de code* |
|---|---|---|
| Test tube complete, PP, 12 x 86 mm<br>*Tube d'essai complet, en PP, 12x86mm* | | **4.119.901** |
| Holder with numerical code 1-10 for 10 tubes<br>*Portoir numéroté de 1-10 poru 10 tubes* | | **4.119.902** |
| Blood sedimentation pipettes (PS) 0-180 mm, complete<br>*Pipettes de sédimentation en polystyrène gradées de 0-180 mm, complète* | | **4.119.903** |


**4.119.901**


**4.119.902**
**-**
**4.119.903**




**4.120.*****

**Constriction pipettes (Carlsberg-pipettes)**
With automatic zero point. "Ex" adjusted with blow-out, packed in styrol plastic tubes.

***Micropipettes de Carlsberg,*** *à zéro automatique. Conditionnement dans boite en polystyrène*

| Capacity<br>*Capacité*<br>µl | Tolerance<br>*Tolérance*<br>± µl | Colour code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.1 | ● | **4.120.001** |
| 2 | 0.2 | ● 2 x | **4.120.002** |
| 5 | 0.4 | ○ | **4.120.005** |
| 10 | 0.4 | ● 2 x | **4.120.010** |
| 20 | 0.8 | ● | **4.120.020** |
| 25 | 1 | ○ 2 x | **4.120.025** |
| 50 | 1 | ● | **4.120.050** |
| 100 | 2 | ● | **4.120.100** |
| 200 | 4 | ● | **4.120.200** |
| 250 | 5 | ● 2 x | **4.120.250** |
| 300 | 5 | ● | **4.120.300** |
| 400 | 5 | ● 2 x | **4.120.400** |
| 500 | 5 | ● 2 x | **4.120.500** |
| 1000 | 6 | ● | **4.120.900** |

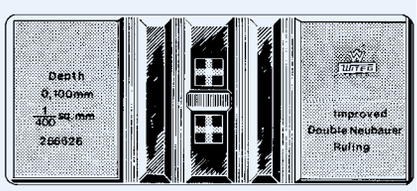



**4.130.**2**

**Counting chambers,** with 2 optical plane cover glasses, not tested, tolerance ± 2 % at the depth of the counting chambers 0.1 mm, double net graduation, without metal clamp, packed in plastic boxes

***Cellules de comptage,*** *à 2 lames en verre optique plan, non-testées, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, sans pince en métal. Conditionnement dans boite en plastique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Thoma | 0.100 | 1.0 | **4.130.102** |
| Buerker | 0.100 | 9.3 | **4.130.202** |
| Neubauer | 0.100 | 9.0 | **4.130.252** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.130.302** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.130.402** |
| Malassez | 0.200 | 5.0 | **4.130.552** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.130.602** |
| Nageotte | 0.500 | 100.0 | **4.130.702** |




**4.130.**4**

**Counting chambers,** with 2 optical plane cover glasses, not tested, with CE mark, tolerance ± 2 %at the depth of the counting chambers 0.1 mm, double net graduation, with metal clamp, packed in plastic boxes

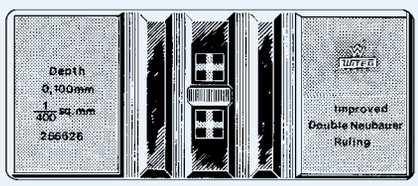
***Cellules de comptage,*** *à 2 lames en verre optique plan, non-testées, avec certificat de conformité CE, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, avec pince en métal. Conditionnement dans boite en plastique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Thoma | 0.100 | 1.0 | **4.130.104** |
| Buerker | 0.100 | 9.3 | **4.130.204** |
| Neubauer | 0.100 | 9.0 | **4.130.254** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.130.304** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.130.404** |
| Malassez | 0.200 | 5.0 | **4.130.554** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.130.604** |
| Nageotte | 0.500 | 100.0 | **4.130.704** |

**Counting chambers,** with 2 optical plane cover glasses, not tested, with CE mark, tolerance ± 2 %at the depth of the counting chambers 0.1 mm, double net graduation, bright line, without metal clamp
Packed in plastic boxes

***Cellules de comptage,*** *à 2 lames en verre optique plan, non-testées, avec certificat de conformité CE, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, ligne claire, sans pince en métal. Conditionnement dans boite en plastique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Buerker | 0.100 | 9.3 | **4.130.205** |
| Neubauer | 0.100 | 9.0 | **4.130.255** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.130.305** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.130.405** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.130.605** |

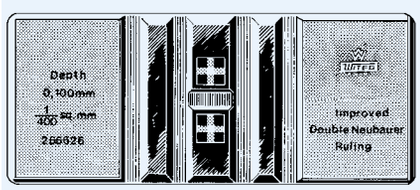



**4.130.****5

**Counting chambers,** with 2 optical plane cover glasses, not tested, with CE mark, tolerance ± 2 %at the depth of the counting chambers 0.1 mm, double net graduation, bright line, with metal clamp, packed in plastic boxes

***Cellules de comptage,*** *à 2 lames en verre optique plan, non-testées, avec certificat de conformité CE, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, ligne claire, avec pince en métal. Conditionnement dans boite en plastique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Buerker | 0.100 | 9.3 | **4.130.206** |
| Neubauer | 0.100 | 9.0 | **4.130.256** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.130.306** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.130.406** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.130.606** |

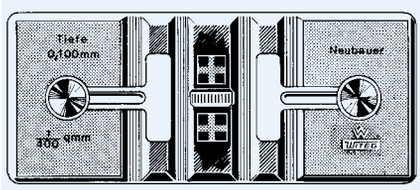



**4.130.****6

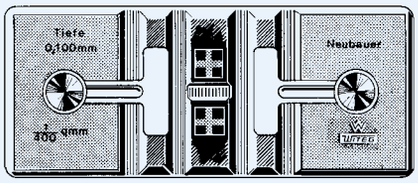
**Counting chambers,** with 2 optical plane cover glasses, officially tested and stamped, tolerance ± 2 %at the depth of the counting chambers 0.1 mm, double net graduation, without metal clamp
Packed in plastic boxes

***Cellules de comptage,*** *à 2 lames en verre optique plan, officiellement testées, avec cerficat de conformité, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, sans pince en métal. Conditionnement dans boite en plastique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Thoma | 0.100 | 1.0 | **4.140.102** |
| Thoma, new / *nouveau modèle* | 0.100 | 1.0 | **4.140.152** |
| Buerker | 0.100 | 9.3 | **4.140.202** |
| Neubauer | 0.100 | 9.0 | **4.140.252** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.140.302** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.140.402** |
| Malassez | 0.200 | 5.0 | **4.140.552** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.140.602** |




**4.140.****2

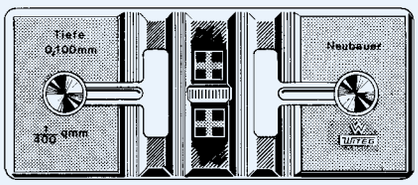



**4.140.***4**

**Counting chambers,** with 2 optical plane cover glasses, officially tested and stamped, with CE mark, tolerance ± 2 % at the depth of the counting chambers 0.1 mm, double net graduation, with metal clamp, packed in plastic boxes

***Cellules de comptage,*** *à 2 lames en verre optique plan, officiellement testées, avec cerficat de conformité, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, sans pince en métal. Conditionnement dans boite en plastique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Thoma | 0.100 | 1.0 | **4.140.104** |
| Thoma, new / *nouveau modèle* | 0.100 | 1.0 | **4.140.154** |
| Buerker | 0.100 | 9.3 | **4.140.204** |
| Neubauer | 0.100 | 9.0 | **4.140.254** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.140.304** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.140.404** |
| Malassez | 0.200 | 5.0 | **4.140.554** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.140.604** |
| Nageotte | 0.500 | 100.0 | **4.140.704** |

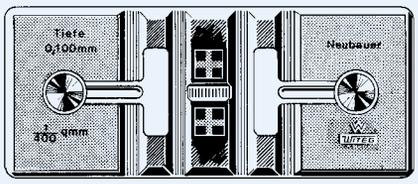



**4.140.***5

**Counting chambers,** with 2 optical plane cover glasses, officially tested and stamped, with CE mark, tolerance ± 2 % at the depth of the counting chambers 0.1 mm, double net graduation, bright line, without metal clamp, packed in plastic boxes

***Cellules de comptage,*** *à 2 lames en verre optique plan, officiellement testées, avec cerficat de conformité, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, ligne claire, sans pince en métal. Conditionnement dans boite en platique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Thoma | 0.100 | 1.0 | **4.140.105** |
| Thoma, new / *nouveau modèle* | 0.100 | 1.0 | **4.140.155** |
| Buerker | 0.100 | 9.3 | **4.140.205** |
| Neubauer | 0.100 | 9.0 | **4.140.255** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.140.305** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.140.405** |
| Malassez | 0.200 | 5.0 | **4.140.555** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.140.605** |
| Nageotte | 0.500 | 100.0 | **4.140.705** |




**4.140.***6

**Counting chambers,** with 2 optical plane cover glasses, officially tested and stamped, with CE mark, tolerance ± 2 % at the depth of the counting chambers 0.1 mm, double net graduation, bright line, with metal clamp, packed in plastic boxes

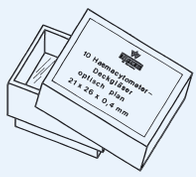
***Cellules de comptage,*** *à 2 lames en verre optique plan, officiellement testées, avec cerficat de conformité, tolérance +/-2% et 0.1 mm à la cavité de la cellule, double graduation du réseau, ligne claire, avec pince en métal. Conditionnement dans boite en plastique*

| System<br>*Types* | Depth of the counting chamber<br>*Profondeur de la cellule*<br>mm | Total measure of the counting chamber<br>*Surface de mesure de la cellule*<br>mm² | Order No.<br>*N° de code* |
|---|---|---|---|
| Thoma | 0.100 | 1.0 | **4.140.106** |
| Thoma, new / *nouveau modèle* | 0.100 | 1.0 | **4.140.156** |
| Buerker | 0.100 | 9.3 | **4.140.206** |
| Neubauer | 0.100 | 9.0 | **4.140.256** |
| Neubauer, improved / *amélioré* | 0.100 | 9.0 | **4.140.306** |
| Buerker-Tuerk | 0.100 | 9.3 resp 9.0 | **4.140.406** |
| Malassez | 0.200 | 5.0 | **4.140.556** |
| Fuchs-Rosenthal | 0.200 | 16.0 | **4.140.606** |
| Nageotte | 0.500 | 100.0 | **4.140.706** |

**Haemacytometer cover glasses,** optical plane ground surface and polished, officially tested and stamped, twice packed in plastik bags, 5 bags (10 cover glasses) per plastic box

***Couvre-objets d'hémacytomètre,*** *avec surface polie et rodée, officiellement testés, emballés par 2 dans un sachet. Conditionnement de 5 sachets (10 couvre-objets) par boite*

| Size<br>*Dimensions*<br>mm | Thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 22 x 22 | 0.4 | **4.160.001** |
| 20 x 26 | 0.4 | **4.160.002** |
| 24 x 24 | 0.4 | **4.160.003** |

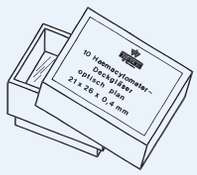



**4.160.*****

**Haemacytometer cover glasses,** for counting chambers, quality A (for standard analysis and in schools), twice packed in plastik bags, 5 bags (10 cover glasses) per plastic box

***Couvre-objets d'hémacytomètre,*** *pour chambres de comptage, qualité A (pour analyses de routine et pour écoles), avec surface polie et rodée, officiellement testés, emballés par 2 dans un sachet. Conditionnement de 5 sachets (10 couvre-objets) par boite*

| Size<br>*Dimensions*<br>mm | Thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 22 x 22 | 0.4 | **4.165.001** |
| 21 x 23 | 0.4 | **4.165.003** |
| 20 x 26 | 0.4 | **4.165.003** |
| 24 x 24 | 0.4 | **4.165.004** |

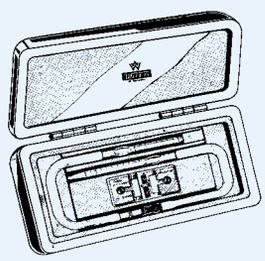



**4.165.*****

**Haemacytometers,** complete in case, with 1 Erythrocyte- and leucocyte pipette with rubber tubing and mouth-piece with counting chamber, with 2 optical plane cover glasses (Please specify size of counting chamber)

***Hémacytomètre complet dans étui,*** *avec une pipette pour Erythrocite et leucocyte y compris tube en caoutchouc, embout en plastique et 2 couvre-objets en verre optique plan. (Prière svp indiquer la dimension de la chambre)*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Without metal clamp / *sans pince en métal* | **4.168.100** |
| With metal clamp / *avec pince en métal* | **4.168.200** |

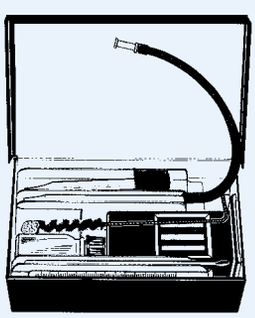


**4.168.*****

**Haemometer, Sahli´s,** complete in case, double colour stick haemometer, with bakelitestand and opal glass plate, 1 comparative tube, 1 haemometer pipette white enamelled, capacity 20 µl, with rubber tube and mouth-piece, 1 water pipette, 1 stirring rod, 1 flask for solvent and 1 brush for cleaning

***Hémacytomètre de Sahli,*** *complet dans étui composé d'un hémomètre à double couleur, d'un support rétroéclairé et verre en opaline, un tube comparatif, une pipette d'hémomètre en émail blanc de 20µl, tube en caoutchouc et embout en plastique, une pipette à eau, une tige d'agitation, une fiole pour solvent et une brosse de netooyage*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **4.170.000** |



**4.170.*****

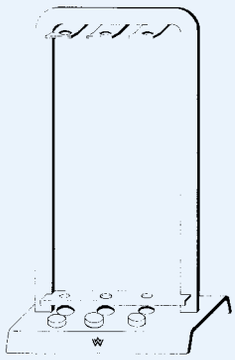
**Haemometer comparative tubes,** for above mentioned haemometer, 120 mm long, outside Ø 8.1 mm

***Tubes comparatifs d'hémomètre*** *à utiliser avec l'hémomètre ci-dessus, longueur 120 mm x Ø ext. 8.1 mm*

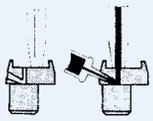
| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| With single scale (g % = gram Haemoglobin in 100 ccm blood)<br>*Avec simple échelle (g% = gramme d'hémoglobine da)* | **4.180.100** |
| With double scale (gram-scale = g % and Haemometer units = HE)<br>*Avec double échelle (g% et unités d''hémomètre = HE)* | **4.180.200** |



**4.180.*****



4.200.***



4.200.050



4.200.080

**Blood sedimentation apparatus acc. to Westergren,** consisting of a stainless steel frame with excellent and stable construction, special laminated springs, pipettes and speciment tube with rubber stopper, complete

***Appareil de sédimentation du sang selon Westergreen.*** *Construction robuste en acier inoxydable livré complet avec pipettes et tubes à échantillon y compris bouchon en caoutchouc. Complet*

| For examination<br>*Nombre d'examinations* | Order No.<br>*N° de code* |
|---|---|
| 3 | **4.200.003** |
| 5 | **4.200.005** |
| 10 | **4.200.010** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Filling stopper, made of rubber<br>*Bouchon de remplissage en caoutchouc* | **4.200.050** |
| Blood mixing glasses, with flat bottom and rubber stopper<br>*Verres de mélange du sang à fond plat et bouchon en caoutchouc* | **4.200.080** |



4.230.***



4.235.***

**Blood sedimentation tubes, acc. to Westergren,** with easy to read DIFFICO graduations and inscriptions, resistant against acid and alkali, which form an integral, indelible part of the glass surface. Tempered delivery tips

***Tubes de sédimentation selon Westergreen*** *avec graduations et inscriptions facilement lisibles DIFFICO, résistants aux acides et alcalins*

| Overall length<br>*Longueur*<br>mm | Division<br>*Division*<br>mm | Graduated<br>*Graduation*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 300 | 0-200 | 1 | clear glass<br>*verre clair* | **4.230.001** |
| 300 | 0-200 | 1 | white enamelled<br>*émaillé blanc* | **4.230.002** |

**Blood sedimentation tubes, acc. to Westergren-Adler, with roll,** with easy to read DIFFICO graduations and inscriptions, resistant against acid and alkali, which form an integral, indelible part of the glass surface. Tempered delivery tips

***Tubes de sédimentation selon Westergreen-Adler*** *avec graduations et inscriptions facilement lisibles DIFFICO, résistants aux acides et alcalins*

| Overall length<br>*Longueur*<br>mm | Division<br>*Division*<br>mm | Graduated<br>*Graduation*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 300 | 0-200 | 1 | clear glass<br>*verre clair* | **4.235.001** |
| 300 | 0-200 | 1 | white enamelled<br>*émaillé blanc* | **4.235.002** |



4.300.***
-
4.320.***

**Capillary pipettes, calibrated for „In“,** with graduation mark, acc. to DIN 12687, clear glass, suitable for officially testing (class A), made of borosilicate glass

***Pipettes capillaires,*** *calibrées avec trait de graduation selon DIN 12687, en verre clair, adaptées à l'étalonnage (Classe A), en verre borosilicaté*

| Capacity<br>*Capacité*<br>µl | Tolerance<br>*Tolérance*<br>± µl | Colour code<br>*Code douleur* | acc. to<br>*Selon* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 20 | 0.4 | ● | Sahli | **4.300.020** |
| 80 | 1.0 | ● | Geigy | **4.300.080** |
| 100 | 1.0 | ● | Geigy | **4.300.100** |
| 200 | 2.0 | ● | Geigy | **4.300.201** |

**Capillary pipettes, calibrated for „In“,** with circular mark, acc. to DIN 12687, white enamelled, for officially testing (class A), made of borosilicate glass

***Pipettes capillaires,*** *calibrées avec trait circulaire selon DIN 12687, en verre blanc émaillé blanc, adaptées à l'étalonnage (Classe A), en verre borosilicaté*

| Capacity<br>*Capacité*<br>µl | Tolerance<br>*Tolérance*<br>± µl | Colour code<br>*Code douleur* | acc. to<br>*Selon* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 20 | 0.4 | ● | Sahli | **4.320.020** |
| 80 | 1.0 | ● | Geigy | **4.320.080** |
| 100 | 1.0 | ● | Geigy | **4.320.100** |
| 200 | 2.0 | ● | Geigy | **4.320.201** |

**Folin-capillary pipettes calibrated for „In“,** with 2 marks, acc. to DIN 12688, clear glass, for officially testing, (class A), made of borosilicate glass

***Pipettes capillaires de Folin calibrées,*** *à 2 traits, selon DIN 12688, en verre clair, étalonnées officiellement (Classe A), en verre borosilicaté*

| Total capacity<br>*Capacité*<br>µl | Mark at<br>*Trait à*<br>µl | Tolerance<br>*Tolérance*<br>± µl | Colour code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 50 | 1.0 | 2 x | **4.350.100** |
| 200 | 100 | 2.0 | | **4.350.200** |

**Micro lambda pipettes, transfer type, suitable for certification,** tolerances indicated on each pipette, individually packed in plastic tubes, made of borosilicate glass

***Micropipettes de Lamda pour transferts,*** *adaptées à l'étalonnage, avec indication des tolérances sur chaque pipette, en verre borosilicaté. Conditionnement individuel dans boite en plastique*

| Capacity<br>*Capacité*<br>µl | Tolerance<br>*Tolérance*<br>± µl | Colour code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.04 | | **4.391.001** |
| 2 | 0.08 | 2 x | **4.391.002** |
| 5 | 0.2 | | **4.391.005** |
| 10 | 0.2 | 2 x | **4.391.010** |
| 20 | 0.4 | | **4.391.020** |
| 25 | 0.5 | 2 x | **4.391.025** |
| 50 | 0.5 | | **4.391.050** |
| 100 | 1 | | **4.391.100** |
| 200 | 2 | | **4.391.200** |
| 250 | 3 | 2 x | **4.391.250** |
| 300 | 3 | | **4.391.300** |
| 400 | 3 | - | **4.391.400** |
| 500 | 3 | 2 x | **4.391.500** |
| 1000 | 3 | | **4.391.900** |

**Blood sugar pipettes,** white enamelled, suitable for certification, made of borosilicate glass

***Pipettes sanguines pour sucre,*** *en verre blanc émaillé, adaptées pour l'étalonnage, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 1 | 1.0 | 2 x | **4.420.100** |
| 200 | 2 | 2.0 | 2 x | **4.420.200** |

**Kahn pipettes, clear glass for the antigen dilution,** tolerances indicated on each pipette, made of borosilicate glass

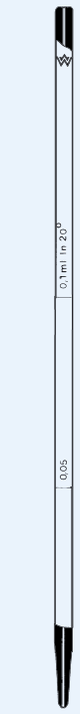
***Pipettes de Kahn,*** *en verre clair pour la dilution d'antigène avec indication de la tolérance sur chaque pipette, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Colour code<br>*Code couleur* | Graduated to | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.1 | 0.001 | 0.003 | 2 x | base | **4.450.010** |
| 0.1 | 0.001 | 0.001 | 2 x | tip | **4.450.012** |
| 0.125 | 0.0125 | 0.003 | - | base | **4.450.015** |
| 0.25 | 0.0125 | 0.003 | - | base | **4.450.025** |
| 0.2 | 0.001 | 0.002 | 2 x | tip | **4.450.030** |
| 0.6 | 0.15 | 0.005 | - | tip | **4.450.060** |

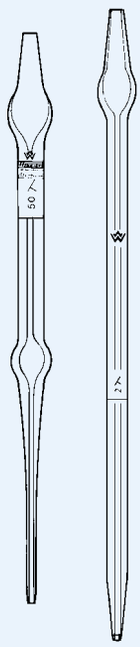
**Tubes blood sugar, acc. to Folin-Wu** approx. 220 x 19 mm outer Ø, made of borosilicate glass

***Tubes à sucre sanguins selon Folin-Wu,*** *env. 220 x 19 mm Ø. ext., en verre borosilicaté*

| With marks at<br>*Avec traits à*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 25 | **4.500.001** |
| 12.5-25 | **4.500.002** |
| 4-12.5-25 | **4.500.003** |



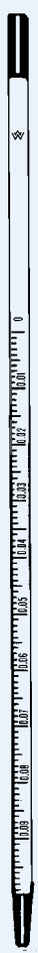
**4.350.***



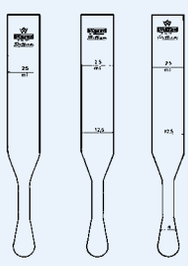
**4.391.***



**4.420.***



**4.450.***



**4.500.***



4.505.***



4.510.***



4.515.***



4.516.001



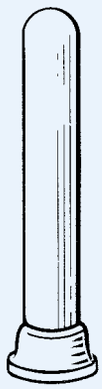
4.516.002



4.516.003




4.517.***



4.517.003




4.518.***

**Haematocrit tubes, acc. to Wintrobe**
graduated 0 - 105 mm : 1 mm, double scale, length 110 mm, made of clear borosilicate glass

***Tubes à hématocrite selon Wintrobe***
*gradués 0 - 105 mm : 1 mm, double échelle, longueur 110 mm, en verre borosilicaté, clair*

| | Order No.<br>*N° de code* |
|---|---|
| | **4.505.000** |

**Haematocrit tubes, acc. to van Allen**
white enamelled, capacity of the ball approx. 1 ml, grad 0.01 ml = 100 divisions, length 100 mm, made of borosilicate glass

***Tubes à hématocrite selon van Allen***
*en verre émaillé blanc, capacité de la bulle env. 1 ml : 0.01 ml = 100 divisions, longueur 100 mm, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | **4.510.000** |

**Haematocrit tubes, acc. to Dahland**
prismatic, white enamelled
grad. 50 mm : 1/2 mm, length 50 mm, with acid and alkali resistant DIFFICO amber stain graduations and inscriptions, made of borosilicate glass

***Tubes à hématocrite prismatiques selon Dahland,***
*en verre émaillé blanc, graduation 50 mm : 1/2 mm, longueur 50 mm, graduations et inscription en marron DIFFICO résistantes aux acides et alcalins, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | **4.515.000** |

**Accessories to the Haematocrit tubes**

***Accessoires pour les tubes à hématocrite***

| | Order No.<br>*N° de code* |
|---|---|
| Rubber caps (Wintrobe)<br>*Capuchons en caoutchouc (Wintrobe)* | **4.516.001** |
| Filling pipette for wintrobe tubes with rubber teats<br>*Pipette de remplissage pour tubes Winrobe avec têtine en caoutchouc* | **4.516.002** |
| Spring seal for van Allen tubes<br>*Joints à ressort pour tubes de Van Allen* | **4.516.003** |

**Albuminimeters, Eschbach,** with round bottom, white graduation, complete in a plastic box, with rubber stopper

***Albuminomètres de Eschbach à fond rond,***
*graduations blanches, complets avec bouchon en caoutchouc, dans étui en plastique*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **4.517.000** |
| **Spare parts /** *Pièces de rechange* | |
| Glass tube / *Tube en verre* | **4.517.001** |
| Glass with rubber stopper / *Verre avec bouchon en caoutchouc* | **4.517.002** |
| Plastic box / *Etui en plastique* | **4.517.003** |

**Albuminimeters, Eschbach,** with conical bottom, white graduation, complete in a plastic box, with rubber stopper

***Albuminomètres de Eschbach à fond conique,***
*graduations blanches, complets avec bouchon en caoutchouc, dans étui en plastique*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **4.518.000** |
| **Spare parts /** *Pièces de rechange* | |
| Glass tube / *Tube en verre* | **4.518.001** |
| Glass with rubber stopper / *Verre avec bouchon en caoutchouc* | **4.518.002** |
| Plastic box / *Etui en plastique* | **4.518.003** |

## Micro slides
## *Lames microscopiques*

**Micro slides,** half white glass, of best non-corrosive glass, size 76 x 26 mm (3“ x 1“), thickness approx. 0.8 - 1.0 mm, in boxes of 50 pcs.

***Lames microscopiques porte-objet,*** *en verre mi-blanc non-corrosif. Dimensions 76 x 26 mm (3"x1"), épaisseur env. 0.8-1.0 mm. Conditionnement de 50 pcs.*

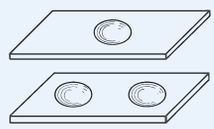
| | Order No. / *N° de code* |
|---|---|
| Cut edges / *Bords coupés* | 4.520.010 |
| Cut edges, with frosted ends / *Bords coupés, polis* | 4.520.015 |
| Cut edges, in tropial packing / *Bords coupés, emballage tropical* | 4.520.016 |
| Fully ground edges / *Bords entièrement rodés* | 4.520.020 |
| Fully ground edges, with frosted ends / *Bords entièrement rodés, polis* | 4.520.022 |
| Fully ground edges, in tropial packing *Bords entièrement rodés, emballage tropical* | 4.520.025 |




**Micro slides,** pure glass, of best non-corrosive glass, size 76 x 26 mm (3“ x 1“), thickness approx. 1.2 - 1.5 mm, in boxes of 50 pcs.

***Lames microscopiques,*** *en verre hautement pur non-corrosif. Dimensions 76 x 26 mm (3"x1"), épaisseur env. 1.2-1.5 mm. Conditionnement de 50 pcs.*

| | Order No. / *N° de code* |
|---|---|
| Cut edges / *Bords coupés* | 4.520.030 |
| Fully ground edges / *Bords entièrement rodés* | 4.520.040 |
| with 1 cavity, fully ground edges / *Avec 1 cavité, à bords entièrement rodés* | 4.520.100 |
| with 2 cavities, fully ground edges / *Avec 2 cavités, à bords entièrement rodés* | 4.520.200 |
| with 3 cavities, fully ground edges / *Avec 3 cavités, à bords entièrement rodés* | 4.520.300 |

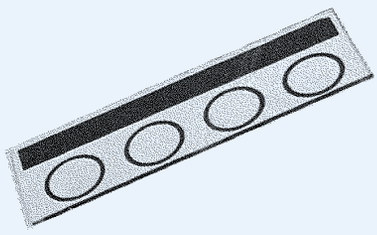


4.520.***

**Somatic cell count slide,** for making microscopic counts of somatic cells in cow's milk

***Lames microscopiques de comptage*** *de cellules somatiques dans le lait de vache*

| Dimensions / *Dimensions* / mm | Thickness / *Épaisseur* / mm | Order No. / *N° de code* |
|---|---|---|
| 75 x 25 | 1 | 4.521.201 |

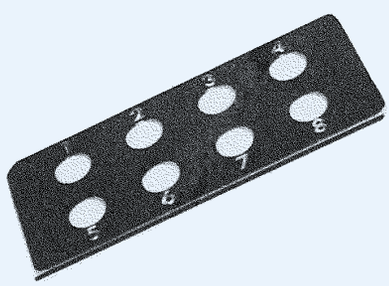


4.521.2**

**Flourescent antibody,** for indirect fluorescent antibody test for toxoplasmosis, 8 rings of 6 mm Ø

***Lames microscopiques fluorescentes*** *pour anti-corps, destinées au test indirect d'anti-corps des toxoplasmoses, avec 8 anneaux de Ø 6 mm chacun*

| Dimensions / *Dimensions* / mm | Thickness / *Épaisseur* / mm | Order No. / *N° de code* |
|---|---|---|
| 75 x 25 | 1 | 4.521.301 |

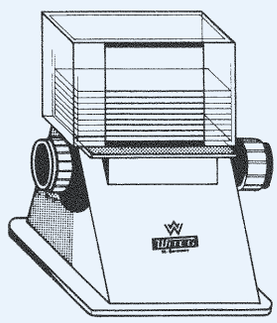


4.521.3**

**Slide dispenser,** made of ABS (Novodur), to hold 50 microscope slides of the standard size 76 x 26 mm

***Distributeur de lames microscopiques,*** *en plastique antichoc (ABS), pour 50 lames de dimensions 76 x 26 mm*

| | Order No. / *N° de code* |
|---|---|
| | 4.550.000 |



4.550.000

**All cover glasses made of excellent special glass of hydrolytical class I, without any flaws or bubbles, precisely cut, exactly adjusted and carefully selected**
100 pieces packed in plastic case

***Lames microscopiques couvre-objet, en verre spécial classe I de haute qualité***
*en conditionnement de 100 pcs dans boite en plastique*



**4.600.***
-
**4.615.***

### Cover glasses, square

***Lames couvre-objets, carrées***

| Dimensions<br>*Dimensions*<br>mm | Thickness<br>*Épaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 20 x 20 | 0.08-0.12 | **4.600.020** |
| 22 x 22 | 0.08-0.12 | **4.600.022** |
| 24 x 24 | 0.08-0.12 | **4.600.024** |
| 12 x 12 | 0.13-0.17 | **4.600.112** |
| 15 x 15 | 0.13-0.17 | **4.600.115** |
| 18 x 18 | 0.13-0.17 | **4.600.118** |
| 20 x 20 | 0.13-0.17 | **4.600.120** |
| 22 x 22 | 0.13-0.17 | **4.600.122** |
| 24 x 24 | 0.13-0.17 | **4.600.124** |
| 18 x 18 | 0.19-0.23 | **4.600.218** |
| 20 x 20 | 0.19-0.23 | **4.600.220** |
| 22 x 22 | 0.19-0.23 | **4.600.222** |
| 24 x 24 | 0.19-0.23 | **4.600.224** |

### Cover glasses, rectangular

***Lames couvre-objets, rectangulaires***

| Dimensions<br>*Dimensions*<br>mm | Thickness<br>*Épaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 21 x 26 | 0.13-0.17 | **4.610.009** |
| 22 x 32 | 0.13-0.17 | **4.610.010** |
| 22 x 40 | 0.13-0.17 | **4.610.011** |
| 22 x 50 | 0.13-0.17 | **4.610.012** |
| 22 x 60 | 0.13-0.17 | **4.610.013** |
| 24 x 32 | 0.13-0.17 | **4.610.014** |
| 24 x 40 | 0.13-0.17 | **4.610.015** |
| 24 x 46 | 0.13-0.17 | **4.610.016** |
| 24 x 48 | 0.13-0.17 | **4.610.017** |
| 24 x 50 | 0.13-0.17 | **4.610.018** |

### Cover glasses, circular

***Lames couvre-objets, rondes***

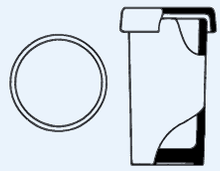
| Outer Ø<br>*Ø ext.*<br>mm | Thickness<br>*Épaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 0.13-0.17 | **4.615.001** |
| 12 | 0.13-0.17 | **4.615.002** |
| 15 | 0.13-0.17 | **4.615.003** |
| 18 | 0.13-0.17 | **4.615.004** |
| 20 | 0.13-0.17 | **4.615.005** |
| 22 | 0.13-0.17 | **4.615.006** |
| 24 | 0.13-0.17 | **4.615.007** |
| 30 | 0.13-0.17 | **4.615.008** |

# Staining jars
## *Jarres de coloration*

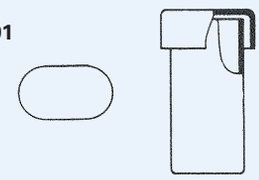
**Staining jar with overlapping cover**

***Jarres de coloration,*** *en verre avec couvercle à coiffe*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Width<br>mm | | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 85 | 40 | - | round shape<br>*forme circulaire* | **4.620.001** |
| 85 | 40 | 25 | oval shape<br>*forme ovale* | **4.620.002** |



**4.620.001**

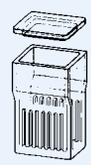


**4.620.002**

**Staining jars, acc. to Helledahl**
with enlargement size:
Deep 57 mm
Height 105 mm
for 16 slides 76 x 26 mm

***Jarre de coloration selon Hellendahl***
*pour 16 lames microscopiques de 76 x 26 mm,*
*Dimensions:*
*105 mm de hauteur et 57 mm de profondeur*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complète* | **4.630.000** |

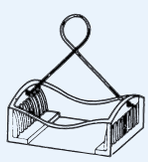


**4.630.*****

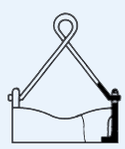
**Staining device for 10 slides 76 x 26 mm**
up to 52 mm broadness, consists of a glass box with cover, frame for slides and wire holder

***Cuve de coloration en verre, nouvelle version,***
*pour 10 lames microscopiques de 76 x 26 mm, livrée complète avec couvercle, portoir et anse en métal*

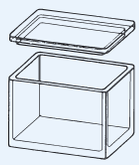
| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complète* | **4.640.000** |
| **Spare parts /** *Pièces de rechange* | |
| Staining tray for 10 slides 76x26mm<br>*Panier de coloration pour 10 lames de 76x26mm* | **4.640.001** |
| Wire handle / *Anse en métal* | **4.640.002** |
| Staining dish / *Cuve de coloration* | **4.640.003** |



**4.640.001**



**4.640.002**



**4.640.003**



**4.650.000**

**Staining jars, acc. to Coplin**
for 10 slides 76 x 26 mm

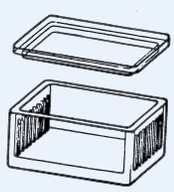
***Jarres de coloration, selon Coplin,*** *pour 10 lames microscopiques de 76 x 26 mm*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complète* | **4.650.000** |

**Staining jars, acc. to Schiefferdecker**
for 10 slides 76 x 26 mm

***Jarre de coloration selon Schiefferdecker,*** *pour 10 lames microscopiques de 76 x 26 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **4.660.000** |



**4.660.000**

**Ureometers acc. to Barron,**
**macro type,** graduation bellow stopcock 0 - 10 ml : 0.1 ml, graduation above stopcock 0 - 10 ml : 1 ml, with suction bulb 25 ml capacity, with ST-stopcock, with acid and alkali resistant DIFFICO amber stain graduation, made of borosilicate glass

***Uréomètre selon Barron, version macro,***
*avec graduations en-dessous du robinet*
*0-10 ml : 0.1 ml, graduations au-dessus du robinet*
*0-10 ml : 1 ml, avec poire d'aspiration de 25 ml et robinet interchangeable. Graduations à haute résistance chimique de couleur marron DIFFICO, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | **4.700.000** |



**4.700.*****

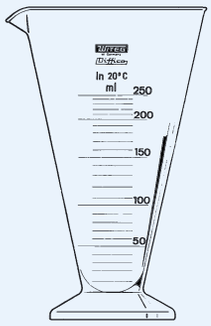
**Ureometers acc. to Barron**
**micro type,** graduation bellow stopcock 0 - 1 ml : 0.01 ml, graduation above stopcock 0 - 5 ml : 1 ml, with suction bulb 10 ml capacity, with ST-stopcock, with acid and alkali resistant DIFFICO amber stain graduation, made of borosilicate glass

***Uréomètre selon Barron, version macro,***
*avec graduations en-dessous du robinet*
*0-1 ml : 0.01 ml, graduations au-dessus du robinet*
*0-5 ml : 1 ml, avec poire d'aspiration de 10 ml et robinet interchangeable. Graduations à haute résistance chimique de couleur marron DIFFICO, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | **4.710.000** |



**4.710.*****




**4.800.*****

**Measures, conical shape,** with round base, with spout, without handle, with acid and alkali resistant DIFFICO amber stain graduation, Class DIN B-short line graduation, made of SBW-Borosilicate glass

***Verres de mesure gradués,*** *en verre borosilicaté classe B, forme conique avec base ronde et bec-verseur. Graduations à haute résistance chimique en couleur marron DIFFICO*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 2 | **4.800.050** |
| 100 | 5 | **4.800.100** |
| 250 | 10 | **4.800.250** |
| 500 | 10 | **4.800.500** |
| 1000 | 20 | **4.800.001** |

## Tubes
## *Tubes*




**4.850.*****

**Kafka's tube for albumin,** with 40 graduation marks, with acid and alkali resistant DIFFICO amber stain graduation, made of borosilicate glass

***Tubes de Kafka pour albumine,*** *à 40 traits de division à haute résistance chimique DIFFICO, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | **4.850.000** |



**4.860.*****

**Centrifuge tubes,** ungraduated, with conical bottom, capacity approx. 15 ml, 112 x 17 mm, wall tickness 0.8 - 1.0 mm 100 pieces in a cardboard-box

***Tubes à centrifuger en verre,*** *non-gradués, volume env. 15 ml, 112x17 mm, épaisseur de paroi 0.8-1.0 mm. Conditionnement de 100 pièces*

| Remarks<br>*Remarques* | Glass<br>*Verre* | Order No.<br>*N° de code* |
|---|---|---|
| without rim / *sans bord évasé* | AR-glass / *verre de chimie* | **4.860.001** |
| with rim / *avec bord évasé* | AR-glass / *verre de chimie* | **4.860.004** |
| with rim / *avec bord évasé* | Borosilicate glass / *verre borosilicaté* | **4.860.005** |



**4.865.*****

**Centrifuge tubes,** ungraduated, with conical bottom, size 98 x 17 mm, made of borosilicate glass, 100 pieces in a cardboard-box

***Tubes à centrifuger gradués en verre,*** *forme conique, volume 15 ml : 0.1 ml avec trait à 15 ml, 112 x 17 mm, épaisseur 0.8-1.0 mm, graduations blanches DIFFICO, en verre borosilicaté*

| Remarks<br>*Remarques* | Glass<br>*Verre* | Order No.<br>*N° de code* |
|---|---|---|
| without rim / *sans bord évasé* | AR-glass / *verre de chimie* | **4.865.001** |
| with rim / *avec bord évasé* | AR-glass / *verre de chimie* | **4.865.002** |



**4.870.*****

**Centrifuge tubes,** graduated „DIFFICO" white, with conical bottom, capacity approx. 15 ml, 112 x 17 mm, wall tickness 0.8 - 1.0 mm, made of borosilicate glass 100 pieces in a cardboard-box
**graduated 15 ml : 0.1 ml with mark at 15 ml**

***Tubes à centrifuger gradués en verre*** *forme conique, volume 15 ml : 0.1 ml avec trait à 15 ml, 112x17 mm, épaisseur 0.8-1.0 mm, graduations blanches DIFFICO, en verre borosilicaté*

| Remarks<br>*Remarques* | Glass<br>*Verre* | Order No.<br>*N° de code* |
|---|---|---|
| without rim / *sans bord évasé* | AR-glass / *verre de chimie* | **4.870.001** |
| with rim / *avec bord évasé* | AR-glass / *verre de chimie* | **4.870.004** |



**4.875.*****

**Centrifuge tubes,** graduated „DIFFICO" white, with conical bottom, capacity approx. 15 ml, 112 x 17 mm, wall tickness 0.8 - 1.0 mm, made of borosilicate glass, 100 pieces in a cardboard-box
**graduated 15 ml : 0.1 ml**

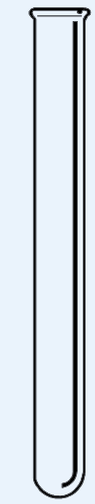
***Tubes à centrifuger gradués en verre*** *forme conique, volume 15 ml : 0.1 ml, 112x17 mm, épaisseur 0.8-1.0 mm, graduations blanches DIFFICO, en verre borosilicaté*

| Remarks<br>*Remarques* | Glass<br>*Verre* | Order No.<br>*N° de code* |
|---|---|---|
| without rim / *sans bord évasé* | AR-glass / *verre de chimie* | **4.875.001** |
| with rim / *avec bord évasé* | AR-glass / *verre de chimie* | **4.875.004** |
| with rim / *avec bord évasé* | Borosilicate glass / *verre borosilicaté* | **4.875.005** |

**Test tubes, AR-glass, with rim and round bottom,** 100 pieces in a cardboard-box

***Tubes à essais, en verre de chimie,*** *à bord évasé et fond rond. Conditionnement de 100 pièces*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 160 | 16 | **4.900.006** |
| 180 | 20 | **4.900.010** |

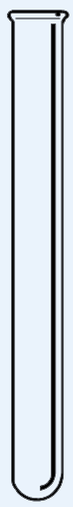


**4.900.*****

**Test tubes, made of FIOLAX-borosilicate glass, with rim and round bottom**
100 pieces in a cardboard-box
(heat resistant)

***Tubes à essais en verre borosilicaté FIOLAX,*** *avec bord évasé et fond rond. Conditionnement de 100 pièces*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 70 | 8 | **4.902.001** |
| 100 | 10 | **4.902.002** |
| 100 | 12 | **4.902.003** |
| 130 | 16 | **4.902.004** |
| 150 | 14 | **4.902.005** |
| 160 | 16 | **4.902.006** |
| 180 | 18 | **4.902.007** |
| 180 | 20 | **4.902.008** |
| 200 | 25 | **4.902.009** |
| 200 | 30 | **4.902.010** |



**4.902.*****

**Culture tubes,** plain top,
made of borosilicate glass

***Tubes à cultures,*** *en verre borosilicaté, bord droit*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Épaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 70 | 8 | 0.8-1.0 | **4.903.000** |
| 75 | 12 | 0.8-1.0 | **4.903.001** |
| 100 | 12 | 0.8-1.0 | **4.903.002** |
| 130 | 16 | 1.0-1.2 | **4.903.003** |
| 160 | 16 | 1.0-1.2 | **4.903.004** |
| 180 | 18 | 1.0-1.2 | **4.903.005** |
| 150 | 20 | 1.0-1.2 | **4.903.006** |
| 150 | 25 | 1.0-1.2 | **4.903.008** |
| 200 | 25 | 1.0-1.2 | **4.903.009** |
| 200 | 30 | 1.0-1.4 | **4.903.010** |
| 100 | 10 | 0.8-1.0 | **4.903.013** |
| 130 | 14 | 0.8-1.0 | **4.903.014** |
| 180 | 18 | 1.0-1.2 | **4.903.020** |

**Culture tubes,** plain top
made of borosilicate glass

***Tubes à cultures,*** *en verre borosilicaté bord droit*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*èpaisseur*<br>mm | | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 70 | 8 | 0.8-1.0 | | **4.903.100** |
| 75 | 12 | 0.8-1.0 | DIN 12395 | **4.903.101** |
| 100 | 12 | 0.8-1.0 | DIN 12395 | **4.903.102** |
| 130 | 16 | 1.0-1.2 | DIN 12395 | **4.903.103** |
| 160 | 16 | 1.0-1.2 | DIN 12395 | **4.903.104** |
| 180 | 18 | 1.0-1.2 | DIN 12395 | **4.903.105** |
| 150 | 20 | 1.0-1.2 | DIN 12395 | **4.903.106** |
| 150 | 25 | 1.0-1.2 | | **4.903.108** |
| 200 | 25 | 1.0-1.2 | DIN 12395 | **4.903.109** |
| 200 | 30 | 1.0-1.4 | DIN 12395 | **4.903.110** |
| 100 | 10 | 0.8-1.0 | DIN 12395 | **4.903.113** |
| 130 | 14 | 0.8-1.0 | DIN 12395 | **4.903.114** |
| 180 | 18 | 1.0-1.2 | | **4.903.120** |



**4.903.*****



**4.903.*****

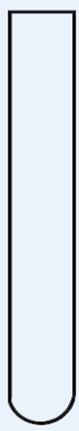
**Culture test tubes,** made of borosilicate glass, with new two position cap made of Polypropylene (PP), for tissue cultures. Open cap for gas exchange processes, closed cap for internal, sample difined humidity conditions. Autoclavable. Reduced contamination due to an internal drop ring, standard pack of 10 pcs.

***Tubes à cultures en verre borosilicaté*** *avec nouveau capuchon en PP à 2 positions, pour la culture des tissus. Capuchon ouvert pour le procès d'échange de gaz et à capuchon fermé pour des conditions d'humidité définies de l'échantillon. Contamination réduite grâce à un anneau à goutte intérieur. Conditionnement de 10 pièces*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 20 | **4.903.121** |
| 150 | 20 | **4.903.150** |
| 100 | 25 | **4.903.174** |
| 150 | 25 | **4.903.175** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Spare caps, two position type, 20 mm<br>*Capuchon de rechange, à 2 positions, 20 mm* | **4.903.220** |
| Spare caps, two position type, 25 mm<br>*Capuchon de rechange, à 2 positions, 25 mm* | **4.903.225** |



**4.904.*****

**Test tubes,** made of AR-glass, heavy wall approx. 1 mm, without rim, round bottom, 100 pieces in a cardboard-box

***Tubes à essais,*** *en verre de chimie, paroie épaisse de 1 mm env., à bord droit et fond rond. Conditionnement de 100 pièces*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 40 | 8 | **4.904.002** |
| 70 | 10 | **4.904.003** |
| 75 | 12 | **4.904.004** |
| 85 | 15 | **4.904.006** |
| 100 | 10 | **4.904.007** |
| 100 | 12 | **4.904.008** |
| 100 | 14 | **4.904.009** |
| 100 | 16 | **4.904.010** |
| 130 | 14 | **4.904.012** |
| 160 | 16 | **4.904.014** |
| 180 | 18 | **4.904.015** |



**4.906.*****

**Gas collection culture fermentation tube,** inverting in bottom of larger tube for collection of gases produced in fermentation cultures, made of borosilicate glass

***Tubes à fermentation de culture,*** *destinés à collecter les gaz produits dans les cultures de fermentation, en verre borosilicaté*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 29 | 8 | **4.904.100** |

**Test tubes,** made of borosilicate glass, graduated, with spout

***Tubes à essais,*** *gradués, en verre borosilicaté, avec bec*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.1 | 150 | 12 | **4.906.001** |
| 20 | 0.1 | 210 | 14 | **4.906.002** |
| 25 | 0.1 | 180 | 18 | **4.906.003** |
| 30 | 0.1 | 180 | 20 | **4.906.004** |

**Caps, Kapsenberg, for test tubes**

***Capuchons de Kapsenberg, pour tubes à essais***

| For test tubes with outer Ø<br>*Pour tubes à Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 16 | **4.920.016** |
| 18 | **4.920.018** |



**4.920.*****

**Disposable culture tubes,** without rim, made of AR-glass, ungraduated with round bottom, packed 250 pieces in a cardboard-box

***Tubes à cultures à usage unique,** à bord droit, en verre de chimie, non-gradués avec fond rond. Conditionnement de 250 pièces*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Épaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 70 | 10 | 0.6 | **4.925.001** |
| 75 | 12 | 0.6 | **4.925.002** |
| 100 | 12 | 0.6 | **4.925.003** |
| 100 | 16 | 0.6 | **4.925.004** |
| 125 | 16 | 0.6 | **4.925.005** |
| 160 | 16 | 0.6 | **4.925.006** |
| 180 | 18 | 0.6 | **4.925.007** |



**4.925.*****

**Durham-tubes,** without rim, made of AR-glass, round bottom
Packed 100 pieces in a cardboard-box

***Tubes de Durham,** en verre de chimie, à bord droit et fond rond. Conditionnement de 100 pièces*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 35 | 6 | **4.930.001** |
| 40 | 8 | **4.930.002** |
| 70 | 10 | **4.930.003** |
| 75 | 10 | **4.930.004** |



**4.930.*****

**Kahn-tubes, plain rim, made of AR-glass,** with round bottom, packed 100 pieces in cardboard-box

***Tubes de Kahn,** en verre de chimie, à bord droit et fond rond. Conditionnement de 100 pièces*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 70 | 12 | **4.935.001** |
| 100 | 12 | **4.935.002** |

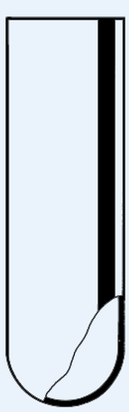


**4.935.*****

**Centrifuge tubes, with rond bottom,** ungraduated, **heavy wall,** without rim, acc. to DIN 58970 (Part 2), made of borosilicate glass

***Tubes à centrifuger,** non-gradués à fond rond en verre borosilicaté, à paroie épaisse et bord droit selon DIN 58970/2*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 12 | 6 | **4.940.001** |
| 100 | 16 | 12 | **4.940.002** |
| 100 | 24 | 25 | **4.940.003** |
| 100 | 34 | 50 | **4.940.004** |
| 100 | 44 | 80 | **4.940.005** |
| 115 | 40 | 80 | **4.940.006** |
| 147 | 56 | 250 | **4.940.007** |



**4.940.*****



**4.940.*****

**Centrifuge tubes,** with round bottom, graduated, heavy wall, without rim, acc. to DIN 58970 (Part 2), made of borosilicate glass

***Tubes à centrifuger,*** *gradués à fond rond en verre borosilicaté, à paroie épaisse et bord droit selon DIN 58970/2*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 16 | 12 | **4.940.102** |
| 100 | 24 | 25 | **4.940.103** |
| 100 | 34 | 50 | **4.940.104** |
| 100 | 44 | 80 | **4.940.105** |
| 147 | 56 | 250 | **4.940.107** |

**Centrifuge tubes,** ungraduated, conical bottom with angle 60°
(Order No. 4.945.001 with angle 30°), without rim, with heavy wall, made of borosilicate glass

***Tubes à centrifuger,*** *non-gradués à fond conique à angle de 60°, (No. 4.945.001 avec angle de 30°), en verre borosilicaté, à paroie épaisse et bord droit*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 16 | 12 | **4.945.001** |
| 100 | 24 | 25 | **4.945.002** |
| 100 | 34 | 50 | **4.945.003** |
| 100 | 44 | 80 | **4.945.004** |
| 115 | 40 | 80 | **4.945.005** |



**4.945.*****

**Centrifuge tubes, conical, heavy wall,** graduated,without rim, made of borosilicate glass

***Tubes à centrifuger,*** *gradués à fond conique, en verre borosilicaté, à paroie épaisse et bord droit*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 98 | 16 | 15 | **4.945.101** |
| 98 | 24 | 25 | **4.945.102** |
| 98 | 34 | 50 | **4.945.103** |
| 98 | 44 | 80 | **4.945.104** |

**Centrifuge tubes,** with round bottom, heavy wall, ungraduated, with screw cap, made of borosilicate glass

***Tubes à centrifuger,*** *en verre borosilicaté, à paroie épaisse, non-gradués à fond rond et avec bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 98 | 16 | 15 | **4.945.201** |
| 98 | 24 | 25 | **4.945.202** |
| 98 | 34 | 50 | **4.945.203** |
| 98 | 44 | 80 | **4.945.204** |

**Centrifuge tubes,** conical, heavy wall, ungraduated, with screw cap, Made of borosilicate glass

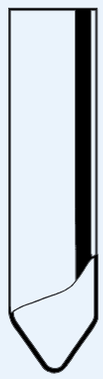
***Tubes à centrifuger,*** *en verre borosilicaté, à paroie épaisse, non-gradués à fond conique et avec bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 98 | 16 | 15 | **4.945.301** |
| 98 | 24 | 25 | **4.945.302** |
| 98 | 34 | 50 | **4.945.303** |
| 98 | 44 | 80 | **4.945.304** |

**Centrifuge tubes,** with round bottom, heavy wall, graduated, with screw cap, made of borosilicate glass

***Tubes à centrifuger,*** *en verre borosilicaté, à paroie épaisse, gradués à fond rond et bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 98 | 16 | 15 | **4.945.401** |
| 98 | 24 | 25 | **4.945.402** |
| 98 | 34 | 50 | **4.945.403** |
| 98 | 44 | 80 | **4.945.404** |



**4.945.*****

**Centrifuge tubes,** conical, heavy wall, graduated, with screw cap, made of borosilicate glass

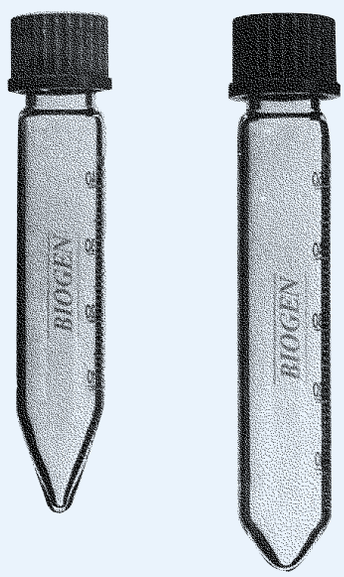
***Tubes à centrifuger,*** *en verre borosilicaté, à paroie épaisse, gradués à fond conique et bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 98 | 16 | 15 | **4.945.501** |
| 98 | 24 | 25 | **4.945.502** |
| 98 | 34 | 50 | **4.945.503** |
| 98 | 44 | 80 | **4.945.504** |

**Centrifuge tubes,** conical bottom, graduated, thick-walled, with screw cap, made of borosilicate glass

***Tubes à centrifuger,*** *en verre borosilicaté, à paroie épaisse, gradués à fond conique et bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Screw cap<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 137 | 17 | 12 | 1 | 18 | **4.946.001** |
| 140 | 17 | 15 | 1 | 18 | **4.946.002** |
| 145 | 28 | 40 | 0 - 10 : 0.5<br>10 - 40 : 1.0 | 25 | **4.946.003** |




**4.946.*****

**Centrifuge tubes,** shallow cone bottom, graduated, thick-walled, with screw cap, made of bBorosilicate glass

***Tubes à centrifuger,*** *en verre borosilicaté, à paroie épaisse, gradués à fond conique et bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Screw cap<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 140 | 28 | 50 | 0 - 10 : 0.5<br>10 - 50 : 1.0 | 25 | **4.946.101** |

**Centrifuge tubes,** round bottom, ungraduated, thick-walled, with screw cap, made of borosilicate glass

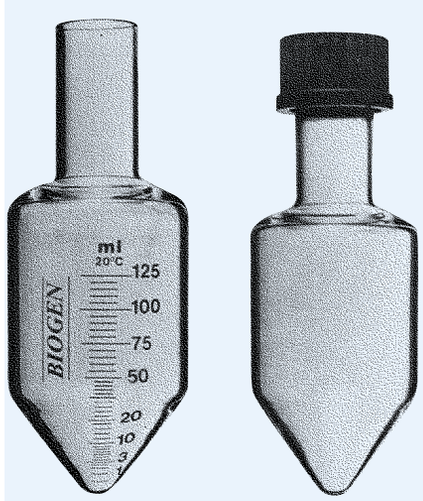
***Tubes à centrifuger,*** *en verre borosilicaté, à paroie épaisse, non-gradués à fond rond et bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Screw cap<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 97 | 20 | 10 | 1 | 18 | **4.947.001** |
| 100 | 28 | 35 | 1 | 18 | **4.947.002** |
| 140 | 28 | 50 | 0 - 10 : 0.5<br>10 - 40 : 1.0 | 25 | **4.947.003** |

**Centrifuge tubes,** large volume, conical bottom, graduated, plain top, for metal caps, made of borosilicate glass

***Tubes à centrifuger,*** *pour gros volumes, en verre borosilicaté, à bord droit, gradués à fond conique, pour bouchon en métal*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | | | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 152 | 60 | 140 | 0 - 3<br>3 - 10<br>10 - 20<br>20 - 50<br>50 - 125 | :<br>:<br>:<br>:<br>: | 0.5<br>1.0<br>2.0<br>3.0<br>5.0 | **4.947.101** |




**4.947.*****
**-**
**4.947.1****

**Centrifuge tubes,** large volume, conical bottom, ungraduated. with screw cap, made of borosilicate glass

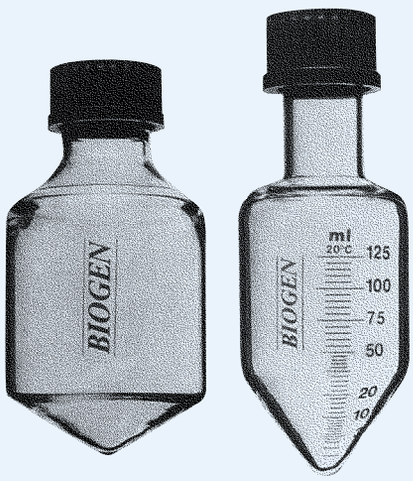
***Tubes à centrifuger,*** *pour gros volumes, en verre borosilicaté, non-gradués à fond conique et bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Screw cap<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 152 | 60 | 140 | 32 | **4.947.201** |
| 175 | 95 | 590 | 32 | **4.947.202** |

**Centrifuge tubes,** large volume, shallow cone bottom, ungraduated, with screw cap, made of borosilicate glass

***Tubes à centrifuger,*** *pour gros volumes, en verre borosilicaté, non-gradués à fond conique peu profond et bouchon à vis*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Screw cap<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 175 | 95 | 760 | 45 | **4.947.301** |

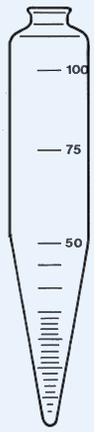



**4.947.3****
**-**
**4.947.4****

**Centrifuge tubes,** large volume, cone bottom, graduated, with screw cap GL 32, made of borosilicate glass

***Tubes à centrifuger,*** *pour gros volumes, en verre borosilicaté, gradués à fond conique et bouchon à vis GL 32*

| Length<br>*Longueur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 152 | 60 | 140 | 0 - 3 : 0.5<br>3 - 10 : 1.0<br>10 - 20 : 2.0<br>20 - 50 : 3.0<br>50 - 125 : 5.0 | **4.947.401** |
| 175 | 60 | 200 | 0 - 3 : 0.5<br>3 - 10 : 1.0<br>10 - 20 : 2.0<br>20 - 50 : 3.0<br>50 - 125 : 5.0 | **4.947.402** |




**4.955.*****

**Centrifuge tubes,** cylindrical, with conical bottom, acc. to ASTM specifications D 91 and ASTM D 96; 8 in., capacity 100ml, graduated, made of borosilicate glass

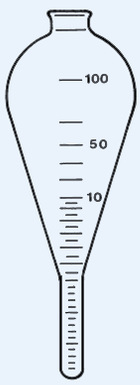
***Tubes à centrifuger,*** *pour essais pétroliers selon ASTM D91et D96, en verre borosilicaté, gradués à fond conique, capacité 100 ml*

| Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 0 - 0.5 : 0.05<br>0.5 - 2 : 0.10<br>2 - 3 : 0.20<br>3 - 5 : 0.5<br>5 - 10 : 1.0<br>10 - 25 : 5<br>25 - 100 : 25 | **4.955.010** |

**Centrifuge tubes,** pear shape, with cylindrical bottom, acc. to ASTM specification D 96, capacity 100ml, graduated, made of borosilicate glass

***Tubes à centrifuger,*** *pour essais pétroliers selon ASTM D96, en verre borosilicaté, en forme de poire, gradués à fond rond cylindrique, capacité 100 ml*

| Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 0 - 1.5 : 0.10<br>1.5 - 3 : 0.5<br>3 - 5 : 0.5<br>5 - 10 : 1.0<br>10 - 25 : 5<br>25 - 100 : 25 | **4.956.010** |

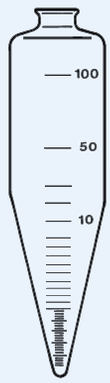



**4.956.*****

**Centrifuge tubes,** cylindrical, with conical bottom, acc. to ASTM specification D 96; 6 in., capacity 100ml, graduated, with marks at 50 and 100 ml, made of borosilicate glass

***Tubes à centrifuger,*** *pour essais pétroliers selon ASTM D96, en verre borosilicaté, en forme cylindro-conique graduée, capacité 100 ml*

| Division<br>*Division*<br>ml | | | Order No.<br>*N° de code* |
|---|---|---|---|
| 0 - 0.5 | : | 0.05 | **4.957.010** |
| 0.5 - 2 | : | 0.10 | |
| 2 - 3 | : | 0.20 | |
| 3 - 5 | : | 0.5 | |
| 5 - 10 | : | 1.0 | |
| 10 - 25 | : | 5 | |



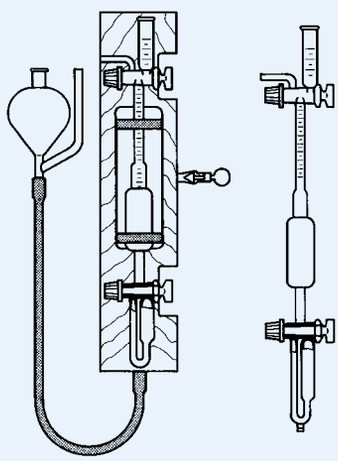

**4.957.*****

## Van Slyke apparatus
## *Appareil de Van Slyke*

**Van Slyke apparatus**
with clamp, levelling bulb and rubber tubing. Capacity of burette 50 ml. Funnel graduated from 0 - 6 : 1.0 ml. Graduation of the burette tube bellow the stopcock at the top: 0 - 1 ml : 0.1 ml, 1 - 5 ml : 0.5 ml, **mounted on a wooden board**

***Appareil de Van Slyke***
*avec pince, flacon de nivellement et tube en caoutchouc. Capacité de la burette 50 ml avec graduations en-dessous du robinet de 0-1 ml:0.1 ml, 1-5 ml: 0.5 ml . Entonnoir gradué de 0-6:1.0 ml.* ***Monté sur bâti en bois***

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Without water jacket<br>*Sans manteau de refroidissement* | **4.958.010** |
| With water jacket<br>*Avec manteau de refroidissement* | **4.958.020** |
| **Spare parts /** *Pièces de rechange* | |
| Burette / *Burette* | **4.958.021** |
| Levelling bulb / *Flacon de nivellement* | **4.958.022** |
| Burette with water jacket / *Burette avec manteau de refroidissement* | **4.958.023** |



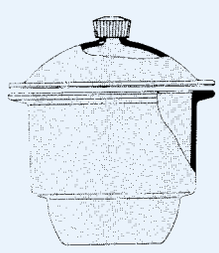
**4.958.*****

## Desiccators
## *Dessicateurs*

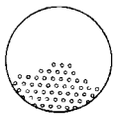
**Desiccators „MOBILEX“**
with lid, with screw thread and screw-closure cap, made of borosilicate glass, with safety PROTEFAN coating as implosion and splinter protection

***Dessicateurs "MOBILEX"***
*en verre borosilicaté à revêtement de protection PROTEFAN contre les risques d'implosion et d'éclat et couvercle à bouchon de fermeture à vis*

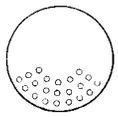
| Inner Ø<br>*Ø int.*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 | 8.662.805 | 8.535.005 | **5.050.200** |
| 250 | 8.662.806 | 8.535.006 | **5.050.250** |
| 300 | 8.662.807 | 8.535.007 | **5.050.300** |



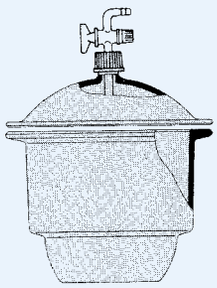
**5.050.*****



**8.662.*****



**8.535.*****

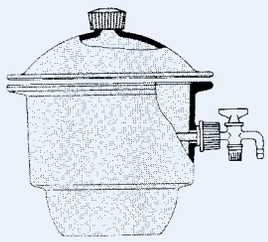


**5.055.*****

**Desiccators „MOBILEX“**
with lid, with screw thread and screw-connection cap with aperture, with silicone sealing ring, with ST-stopcock, inclusive extra screw closure cap, made of borosilicate glass, with safety PROTEFAN coating as implosion and splinter protection

***Dessicateurs "MOBILEX"***
*en verre borosilicaté à revêtement de protection PROTEFAN contre les risques d'implosion et d'éclat, avec couvercle à bouchon de fermeture à vis perforé, joint d'étanchéité en silicone et bouchon de fermeture additionnel*

| Inner Ø<br>*Ø int.*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 | 8.662.805 | 8.535.005 | **5.055.200** |
| 250 | 8.662.806 | 8.535.006 | **5.055.250** |
| 300 | 8.662.807 | 8.535.007 | **5.055.300** |

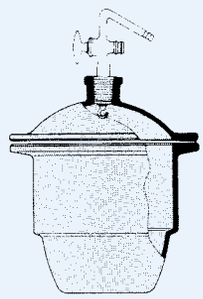


**5.060.*****

**Desiccators „MOBILEX“**
with screw thread at side of base, with screw-connection cap with aperture, with silicone sealing ring, with ST-stopcock, lid with screw closure cap, made of borosilicate glass, with safety PROTEFAN coating as implosion and splinter protection

***Dessicateurs "MOBILEX"***
*en verre borosilicaté à revêtement de protection PROTEFAN contre les risques d'implosion et d'éclat avec couvercle à bouchon de fermeture à vis perforé, joint d'étanchéité en silicone, robinet pour vide interchangeable et bouchon de fermeture additionnel*

| Inner Ø<br>*Ø int.*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 | 8.662.805 | 8.535.005 | **5.060.200** |
| 250 | 8.662.806 | 8.535.006 | **5.060.250** |
| 300 | 8.662.807 | 8.535.007 | **5.060.300** |

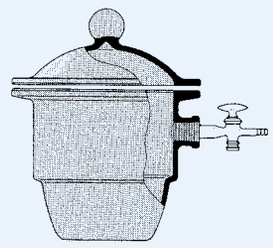


**5.065.*****

**Desiccators „NOVUS“**
with needle valve stopcock, made of borosilicate glass, with safety PROTEFAN coating as implosion and splinter protection

***Dessicateurs de Novus***
*en verre borosilicaté à revêtement de protection PROTEFAN avec couvercle à robinet à pointeau*

| Inner Ø<br>*Ø int.*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 | 8.662.805 | 8.535.005 | **5.065.200** |
| 250 | 8.662.806 | 8.535.006 | **5.065.250** |
| 300 | 8.662.807 | 8.535.007 | **5.065.300** |

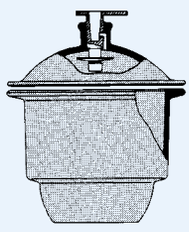


**5.070.*****

**Desiccators „NOVUS“**
with needle valve stopcock in side tubular and knobbed lid, made of Borosilicate glass, with safety PROTEFAN coating as implosion and splinter protection

***Dessicateurs de Novus***
*en verre borosilicaté à revêtement de protection PROTEFAN avec couvercle à bouton et robinet à pointeau sur le côté*

| Inner Ø<br>*Ø int.*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 | 8.662.805 | 8.535.005 | **5.070.200** |
| 250 | 8.662.806 | 8.535.006 | **5.070.250** |
| 300 | 8.662.807 | 8.535.007 | **5.070.300** |

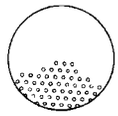


**5.075.*****

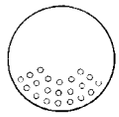
**Desiccators „NOVUS“**
with improved Wertex sealing device Made of Borosilicate glass, with safety-PVC-coating

***Dessicateurs de Novus***
*en verre borosilicaté à revêtement de protection en PVC, avec dispositif d'étanchéité Wertex*

| Inner Ø<br>*Ø int.*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 | 8.662.805 | 8.535.005 | **5.075.200** |
| 250 | 8.662.806 | 8.535.006 | **5.075.250** |
| 300 | 8.662.807 | 8.535.007 | **5.075.300** |



**8.662.*****



**8.535.*****

# Flasks
## *Fioles*

**Filtration flasks, Erlenmeyer shape**
with PPN-plastic hose connection and plastic tubulature, clear glass, non-coating, complete, made of borosilicate glass

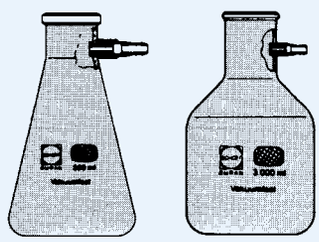
***Fioles de filtration sous vide en verre clair**, forme Erlenmeyer avec raccord à olive en PPN et tubulure en plastique, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 100 | 5.070.110 |
| 250 | 5.070.125 |
| 500 | 5.070.150 |
| 1000 | 5.070.210 |
| 2000 | 5.070.220 |

**Filtration flasks, Bottle shape**
with PPN-plastic hose connection and plastic tubulature, clear glass, non-coating, complete, made of borosilicate glass

***Fioles de filtration sous vide en verre clair,** forme flacon avec raccord à olive en PPN et tubulure en plastique, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 3000 | 5.070.310 |
| 5000 | 5.070.350 |
| 10000 | 5.070.390 |
| 15000 | 5.070.395 |
| 20000 | 5.070.397 |



**5.070.*****
**-**
**5.071.*****

**Filtration flasks, Erlenmeyer shape**
with PPN-plastic hose connection and plastic tubulature, with safety coating, complete, made of borosilicate glass

***Fioles de filtration sous vide en verre** avec revêtement de protection, forme Erlenmeyer avec raccord à olive en PPN et tubulure en plastique, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 100 | 5.071.010 |
| 250 | 5.071.025 |
| 500 | 5.071.050 |
| 1000 | 5.071.100 |
| 2000 | 5.071.200 |

**Filtration flasks, Bottle shape,**
with PPN-plastic hose connection and plastic tubulature, with safety coating, complete, made of borosilicate glass

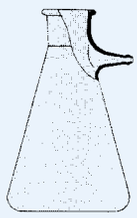
***Fioles de filtration sous vide en verre** avec revêtement de protection, forme flacon avec raccord à olive en PPN et tubulure en plastique, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 3000 | 5.071.300 |
| 5000 | 5.071.500 |
| 10000 | 5.071.900 |
| 15000 | 5.071.915 |
| 20000 | 5.071.920 |

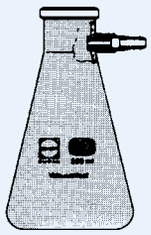
**Filtration flasks, Erlenmeyer shape,**
with side tube (If desired, up to 2000 ml capacity vacuum tested with 2 bar), made of borosilicate glass, non-coating

***Fioles de filtration sous vide**, en verre borosilicaté, forme Erlenmeyer avec raccord à olive (si désiré, testées au vide à 2 bar jusqu'à une capacité de 2000 ml)*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 250 | 5.080.250 |
| 500 | 5.080.500 |
| 1000 | 5.080.001 |
| 2000 | 5.080.002 |
| 3000 | 5.080.003 |
| 5000 | 5.080.005 |
| 10000 | 5.080.010 |



**5.080.*****

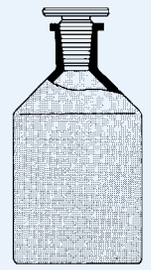


**5.080.*****

**Filter flask, Erlenmeyer shape,** with side tube, non coated, made of borosilicate glass, (if desired, up to 2000 ml capacity, vacuum tested with 2 bar)

***Fioles de filtration sous vide,*** *en verre borosilicaté, de forme Erlenmeyer avec tubulure à olive*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | | | **5.080.100B** |
| 250 | 155 | 85 | **5.080.250B** |
| 500 | 185 | 105 | **5.080.500B** |
| 1000 | 230 | 135 | **5.080.001B** |
| 2000 | 265 | 170 | **5.080.002B** |
| 3000 | 305 | 200 | **5.080.003B** |
| 5000 | 375 | 235 | **5.080.005B** |
| 10000 | 465 | 315 | **5.080.010B** |

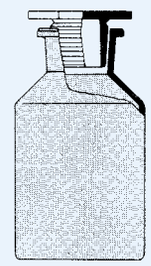


**5.081.*****

**Bottles,** conical shoulder, soda-glass, narrow neck, with ST-glass stopper, with washing-machine-proof PROTEFAN safety coating with UV stabilizer

***Flacons,*** *en verre de chimie, à revêtement de protection PROTEFAN, avec stabilisateur UV, à col étroit avec bouchon en verre à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 14/15 | **5.081.050** |
| 100 | 14/23 | **5.081.100** |
| 250 | 19/26 | **5.081.250** |
| 500 | 24/29 | **5.081.500** |
| 1000 | 29/32 | **5.081.001** |
| 2000 | 29/32 | **5.081.002** |



**5.085.*****

**Bottles,** conical shoulder, soda-glass, wide mouth, with ST-glass stopper, with washing-machine-proof, PROTEFAN safety coating with UV stabilizer

***Flacons en,*** *verre de chimie à revêtement de protection PROTEFAN, avec stabilisateur UV, à col large avec bouchon en verre à RN*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Cône femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 24/20 | **5.085.050** |
| 100 | 29/22 | **5.085.100** |
| 250 | 34/24 | **5.085.250** |
| 500 | 45/27 | **5.085.500** |
| 1000 | 60/46 | **5.085.001** |
| 2000 | 60/46 | **5.085.002** |



**5.090.*****

**Filtration flasks, Erlenmeyer shape** with side tube (If desired, up to 2000 ml capacity vacuum tested with 2 bar), made of borosilicate glass, with safety PROTEFAN coating as implosion and splinter protection

***Fioles de filtration sous vide,*** *en verre borosilicaté à revêtement de protection PROTEFAN, forme Erlenmeyer avec raccord à olive (si désiré, testées au vide à 2 bar jusqu'à une capacité de 2000 ml)*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 250 | **5.090.250** |
| 500 | **5.090.500** |
| 1000 | **5.090.001** |
| 2000 | **5.090.002** |



**5.061.*****

**Laboratory bottles,** with screw thread, GL 45, with safety coating, made of borosilicate glass, without screw cap

***Flacons à réactifs,*** *en verre borosilicaté, à revêtement de protection et col à vis GL 45, sans bouchon*

| -Capacity<br>*Capacité*<br>ml | Screw cap<br>*Bouchon* | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 0.175.145 | **5.100.010** |
| 250 | 0.175.145 | **5.100.025** |
| 500 | 0.175.145 | **5.100.050** |
| 1000 | 0.175.145 | **5.100.001** |
| 2000 | 0.175.145 | **5.100.200** |
| 5000 | 0.175.145 | **5.100.005** |
| 10000 | 0.175.145 | **5.100.900** |

# Cleaning
## *Nettoyage*

### WITONEX-Cleaning concentrate

- **WITONEX** is a detergent which exceeds the cleaning of chromium sulphuric acid
- **WITONEX** is a detergent for all purposes which can be used without hesitation for all kinds of soil on objects made of glass, porcelain, plastic, rubber and metals
- **WITONEX** is used both for routine cleaning of objects in medical, chemical and technical laboratories like pipettes, test tube, flasks etc. as well as for great cleaning problems concerning the trace analysis
- The solution is scentless and has no harmfull effect on skin and clothes
- **WITONEX** is delivered highly concentrated, is used strongly diluted, and owing to long durability of the solution, it is extremely economical
- The solution reaches a „pH-value“ which naturally corresponds to the regulations for biological removal
- On the contrary to other preparations, WITONEX leaves no traces, in case it is used according to the instructions

***Agent concentré de nettoyage WITONEX***

*- Le détergent **WITONEX** est destiné aussi pour le nettoyage de l'acide sulphurique*

*- C'est un détergent universel utilisable pour tous types de sols sur des objets en verre, en porcelaine, en plastique, en caoutchouc ou en métal.*

*- Hautement concentré il doit être préalablement dilué*

*- Il peut être utilisé aussi pour le nettoyage de routine dans les laboratoires de médecine, de chimie et technique tels que pipettes, tubes à essais, fioles etc...*




### WITONEX-30-Cleansing concentrate

***Agent concentré WITONEX-30***

| Net-weight<br>*Poids net*<br>kg | Packed in<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|
| 1 | Bottle / *Flacon* | **5.200.001** |
| 5 | Canister / *Bidon* | **5.200.005** |
| 10 | Canister / *Bidon* | **5.200.010** |
| 30 | Canister / *Bidon* | **5.200.030** |

### WITONEX-B-26

Foam reduced special detergent for rinsing machines „liquid“

***WITONEX-B-26***
*Détergent spécial pour les machines à laver la verrerie "liquide"*

| Net-weight<br>*Poids net*<br>kg | Packed in<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|
| 1 | Bottle / *Flacon* | **5.220.001** |
| 5 | Canister / *Bidon* | **5.220.005** |
| 10 | Canister / *Bidon* | **5.220.010** |
| 30 | Canister / *Bidon* | **5.220.030** |

**WITONEX-B-24,** in powder form
Non-foaming detergent for laboratory rinsing machines which cleans residue-free. Cleans all laboratory dishes of all degrees of soil, using very slow doses

***WITONEX-B-24***
*Détergent non-moussant pour machines à laver et destiné pour le nettoyage des boites de pétri de tous types de sols*

| Net-weight<br>*Poids net*<br>kg | Packed in<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|
| 5 | Bucket / *Bidon* | **5.250.005** |
| 10 | Bucket / *Bidon* | **5.250.010** |
| 20 | Bucket / *Bidon* | **5.250.020** |
| 40 | Bucket / *Bidon* | **5.250.040** |

**Natural-coloured wipers and wiping rolls,** these highly absorbent and lint-free wipers are made from 100% recycled material and are non-bleached. Indispensable at petrol stations, garages etc.

***Chiffonnettes et rouleaux à nettoyer,*** *non blanchi et naturel. Ces chiffonettes trés absorbantes et à caractère non peluchant sont faites de 100% de matières recyclées et ne sont pas blanchies. Indispensables dans les stations-service, les garages, etc.*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Wipers, 3-ply<br>*Essuie-tout, 3 épaisseurs* | 32 x 34 | 1000 sheets<br>(20 x 50) | **5.300.000** |
| Wipers, 4-ply<br>*Essuie-tout, 4 épaisseurs* | 32 x 34 | 1000 sheets<br>(20 x 50) | **5.300.001** |
| Wiping roll, 2-ply<br>*Rouleau à nettoyer, 2 épaisseurs* | 36 x 38 | 2 rolls of<br>1000 sheets | **5.300.002** |
| Wiping roll, 2-ply<br>*Rouleau à nettoyer, 2 épaisseurs* | 36 x 24 | 2 rolls of<br>1000 sheets | **5.300.003** |
| Wiping roll, 3-ply<br>*Rouleau à nettoyer, 2 épaisseurs* | 36 x 38 | 2 rolls of<br>1000 sheets | **5.300.004** |
| Wiping roll, 3-ply<br>*Rouleau à nettoyer, 2 épaisseurs* | 36 x 24 | 2 rolls of<br>1000 sheets | **5.300.005** |

**Blue, 2-ply and 3-ply wiping rolls for industry and craft,** can be used for nearly all kinds of cleaning, e.g. in metal working or maintenance of machines

***Rouleaux à nettoyer à 2 ou 3 épaisseurs, bleu*** *elles conviennent pour pratiquement tout type de nettoyage, par ex. dans l´industrie du métal et la maintenance de machines*



| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Wiping roll, blue, 2-ply<br>*Rouleau à nettoyer, bleu, 2 épaisseurs* | 38 x 24 | 2 rolls of<br>1000 sheets | **5.300.010** |
| Wiping roll, blue, 3-ply<br>*Rouleau à nettoyer, bleu, 3 épaisseurs* | 38 x 24 | 2 rolls of<br>1000 sheets | **5.300.011** |
| Wiping roll, blue, 3-ply<br>*Rouleau à nettoyer, bleu, 3 épaisseurs* | 38 x 24 | 2 rolls of<br>1000 sheets | **5.300.012** |
| Wiping roll, blue, 3-ply<br>*Rouleau à nettoyer, bleu, 3 épaisseurs* | 35 x 37 | 1 roll of<br>1000 sheets | **5.300.013** |
| Wiping roll, blue, 2-ply<br>*Rouleau à nettoyer, bleu, 2 épaisseurs* | 38 x 24 | 2 rolls of<br>500 sheets | **5.300.014** |
| Wiping roll, blue, 2-ply<br>*Rouleau à nettoyer, bleu, 2 épaisseurs* | 38 x 38 | 2 rolls of<br>500 sheets | **5.300.015** |

**Blue, 3-ply wiping rolls for industry and craft,** these cloths are ideally suited for areas where a high degree of effiency and safety is required, such as in wiping metal filings

***Rouleaux à nettoyer à 3 épaisseurs, bleu***
*ces chiffons sont idéals pour tous les domaines qui exigent un niveau élevé d´efficacité et de sécurité, par exemple pour enlever des copeaux métalliques*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Wiping roll, blue, 2-ply<br>*Rouleau à nettoyer, bleu, 2 épaisseurs* | 38 x 24 | 2 rolls of<br>500 sheets | **5.300.016** |
| Wiping roll, blue, 3-ply<br>*Rouleau à nettoyer, bleu, 3 épaisseurs* | 38 x 38 | 2 rolls of<br>500 sheets | **5.300.017** |

**3-ply wiping roll,** due to their high tear-resistance even in wet use and their high absorption capacity, they are suitable for the food industry

***Rouleaux à nettoyer à 3 épaisseurs,*** *grace à leur bonne résistance à la déchirure et leur capacité d´absorption élevée, ces chiffons conviennent parfaitement pour l´industrie agro-alimentaire*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Wiping roll, white, 3-ply<br>*Rouleau à nettoyer, blanc, 3 épaisseurs* | 38 x 27 | 2 rolls of<br>1000 sheets | **5.300.020** |

**White wipers and wiping rolls for polishing and servicing,** 2-ply and 4-ply versions, high-qualitiy special-purpose wipers are perfectly for treatment of sensitive surfaces of metal, plastic, wood etc. Indispensable in print shops, precision machine shops or in car paint shops

***Chiffonettes et rouleaux à reluire, blanc,*** *versions 2 et 4 épaisseurs, idéales pour le traintement de surfaces sensibles en métal, plastique, bois, etc. Indispensables dans les imprimeries, les ateliers de machines de précision ou de peinture automobile*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Polishing wipers, 4-ply<br>*Chiffonettes à reluire, 4 épaisseurs* | 33 x 34 | 1000 sheets<br>(20 x 50) | **5.300.030** |
| Polishing roll, 2-ply<br>*Roleau à reluire, 2 épaisseurs* | 38 x 32 | 2 rolls of<br>1000 sheets | **5.300.031** |
| Polishing roll, 4-ply<br>*Roleau à reluire, 4 épaisseurs* | 38 x 38 | 1 roll of<br>1000 sheets | **5.300.032** |
| Polishing roll, 4-ply<br>*Roleau à reluire, 4 épaisseurs* | 38 x 27 | 1 roll of<br>1000 sheets | **5.300.033** |
| Polishing roll, „Trikot“<br>*Roleau à reluire, „Trikot“* | 40 x 38 | 1 roll of<br>420 sheets | **5.300.034** |
| Polishing roll, „Trikot“<br>*Roleau à reluire, „Trikot“* | 40 x 30 | 1 roll of<br>250 sheets | **5.300.035** |

**White wiping roll for polishing and servicing, „Trikot“ version,** supplied in dispenser

***Chiffonettes et rouleaux à reluire, blanc, version „Trikot“,*** *en boîte distibutrice*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Polishing roll, „Trikot“<br>*Roleau à reluire, „Trikot“* | 40 x 38 | 1 roll of<br>375 sheets | **5.300.040** |



**Air White, embossed wipes and wiping rolls for polishing and sevicing,** made of 100% cellulose, the wipe is very suitable for any kind of cleaning and wiping puposes especially for applications in hospitals and old people´s homes. The material is furthermore very applicable for cleaning oily or dirty surfaces in industry

***Chiffonettes gaufrées et rouleaux,*** *pour le polissage et l´entretien , blanc (100% cellulose), pour le nettoyage universel et l´utlisation dans les domaines hygiéniques. Peuvent être utilisées sans problème dans le secteur industriel*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Air cellulose wipes, whitey<br>*Air chiffonettes en cellulose, blanches* | 27 x 32 | 1000 sheets<br>(40 x 25) | **5.300.050** |
| Air cellulose wipes, whitey<br>*Air chiffonettes en cellulose, blanches* | 32 x 34 | 500 sheets<br>(20 x 25) | **5.300.051** |
| Air polishing roll, white<br>*Air rouleau à reluire, blanc* | 40 x 25 | 1 roll of<br>500 sheets | **5.300.052** |

**Clinic and practice aids – Perfect hygene in the treatment area,** extremely absorbent multipurpose towels are particulary suitable for applications in the medical field, either in the patient treatment area or for cleaning medical equipment.
100% recycling material – highly absorbent – wet-strength – especially economical due to single sheet folding – universal applications

***Produits pour cliniques et cabinets médicaux-Hygiène optimale dans le secteur de la santé,*** *essuie-tout très absorbant. Les essuie-tout à trois et quatre épaisseurs sont parfaits pour un usage multiple aussi bien pour les soins directs aux patients que pour nettoyer les appareils médicaux. En matériau 100% recyclable – très absorbant – résistant à l´humidité – particulièrement grâce au pilage feuille à feuille – usage multiples*



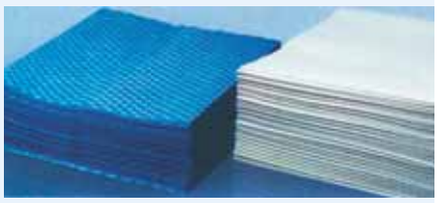
| Type<br>*Type* | Dimensions<br>*Dimensions*<br>cm | Packing<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Multipurpose towels, natural, 3-ply<br>*Esuie-tout, nature, 3 épaisseurs* | 27 x 32 | 1000 towels<br>(20 x 50) | **5.300.060** |
| Multipurpose towels, natural, 3-ply<br>*Esuie-tout, nature, 3 épaisseurs* | 32 x 34 | 1000 towels<br>(20 x 50) | **5.300.061** |
| Multipurpose towels, natural, 4-ply<br>*Esuie-tout, nature, 4 épaisseurs* | 32 x 34 | 1000 towels<br>(20 x 50) | **5.300.062** |



**Physican´s rolls in crepe and tissue qualitiy**
Available in single, 2-ply od 3-ply versions. Soft and absorbent – material does not adhere to the skin – economical in use to the perforations in car paint shops

***Rouleaux de papiers absorbants à usage médical***
*en qualité tissu ou crêpe, au choix en 1, 2 ou 3 épaisseurs. Doux et absorbants – ne collent pas à la peau – économiques grâce aux perforations de coupe*

| **Type**<br>***Type*** | **Dimensions**<br>***Dimensions***<br>**m x cm** | **Packing**<br>***Conditionnement*** | **Order No.**<br>***N° de code*** |
|---|---|---|---|
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 150 x 39 | 4 rolls<br>*4 rouleaux* | **5.300.070** |
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 150 x 50 | 4 rolls<br>*4 rouleaux* | **5.300.071** |
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 150 x 55 | 4 rolls<br>*4 rouleaux* | **5.300.072** |
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 150 x 59 | 4 rolls<br>*4 rouleaux* | **5.300.073** |
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 100 x 39 | 6 rolls<br>*6 rouleaux* | **5.300.074** |
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 100 x 50 | 6 rolls<br>*6 rouleaux* | **5.300.075** |
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 100 x 55 | 6 rolls<br>*6 rouleaux* | **5.300.076** |
| Crepe, white, single ply<br>*Crêpe, blanc, 1 épaisseur* | 100 x 59 | 6 rolls<br>*6 rouleaux* | **5.300.077** |
| Tissue, white, 2-ply<br>*Crêpe, blanc, 2 épaisseurs* | 50 x 39 | 9 rolls<br>*9 rouleaux* | **5.300.078** |
| Tissue, white, 2-ply<br>*Crêpe, blanc, 2 épaisseurs* | 50 x 50 | 9 rolls<br>*9 rouleaux* | **5.300.079** |
| Tissue, white, 2-ply<br>*Crêpe, blanc, 2 épaisseurs* | 50 x 55 | 9 rolls<br>*9 rouleaux* | **5.300.080** |
| Tissue, white, 2-ply<br>*Crêpe, blanc, 2 épaisseurs* | 50 x 59 | 9 rolls<br>*9 rouleaux* | **5.300.081** |
| Tissue, white, 3-ply<br>*Crêpe, blanc, 3 épaisseurs* | 50 x 39 | 6 rolls<br>*6 rouleaux* | **5.300.082** |
| Tissue, white, 3-ply<br>*Crêpe, blanc, 3 épaisseurs* | 50 x 50 | 6 rolls<br>*6 rouleaux* | **5.300.083** |
| Tissue, white, 3-ply<br>*Crêpe, blanc, 3 épaisseurs* | 50 x 59 | 6 rolls<br>*6 rouleaux* | **5.300.084** |



**Laboratory towels,** made of pure cloth lint free, highly absorbent, and chemical neutral, for universal applications in the laboratory, in dispenser box of 150 pieces

***Essuie-tout de laboratoire,*** *doux en tissu pur trés absorbants et chimiquement neutres à usage universe, en boite distributrice de 150 pièces*

| **Type**<br>***Type*** | **Dimensions**<br>***Dimensions***<br>**cm** | **Packing**<br>***Conditionnement*** | **Order No.**<br>***N° de code*** |
|---|---|---|---|
| Towels, 2-ply for laboratory use<br>*Essuie-tout de laboratoire* | 21 x 22 | 30 boxes<br>*30 boites* | **5.300.020** |

**Hand-washing lotions,** the high-quality liquid soaps of the ZetClean range moisturize and have skin protecting ingredients and are alkali-free and biodegradable. They are available in different colours and fragrances and in cartridges or in canisters

***Lotions nettoyantes pour les mains.*** *les savons liquides de grande qualité de la gamme ZetClean ne dessèchent pas la peau et la protègent. Ils sont exempts d'agents alcalins et sont biodégradables. Disponibles en plusieurs couleurs et plusieurs parfums, en cartouches ou en jerricans*

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| 500 ml hand-washing cream soap Bio in cartridge<br>*Savon-crème Bio en cartouche de 500 ml* | 12 | **5.300.100** |
| 750 ml hand-washing cream soap Bio in cartridge<br>*Savon-crème Bio en cartouche de 750 ml* | 8 | **5.300.101** |
| 950 ml hand-washing cream soap Bio in cartridge<br>*Savon-crème Bio en cartouche de 950 ml* | 12 | **5.300.102** |
| 1000 ml hand-washing cream soap Bio in cartridge<br>*Savon-crème Bio en cartouche de 1000 ml* | 6 | **5.300.103** |
| 5 litres hand-washing cream soap Bio in canister<br>*Savon-crème Bio en jerrican de 5 litres* | 4 | **5.300.104** |
| 10 litres hand-washing cream soap Bio in canister<br>*Savon-crème Bio en jerrican de 10 litres* | 1 | **5.300.105** |
| 500 ml hand-washing lotion rosé in cartridge<br>*Lotion nettoyante rose de 500 ml, pour utilisation multiple* | 12 | **5.300.110** |
| 750 ml hand-washing lotion rosé in cartridge<br>*Lotion nettoyante rose de 750 ml, pour utilisation multiple* | 8 | **5.300.111** |
| 950 ml hand-washing lotion rosé in cartridge<br>*Lotion nettoyante rose de 950 ml, pour utilisation multiple* | 12 | **5.300.112** |
| 1000 ml hand-washing lotion rosé in cartridge<br>*Lotion nettoyante rose de 1000 ml, pour utilisation multiple* | 6 | **5.300.113** |
| 5 litres hand-washing lotion rosé in canister<br>*Lotion nettoyante rose en jerrican de 5 litres* | 4 | **5.300.114** |
| 10 litres hand-washing lotion rosé in canister<br>*Lotion nettoyante rose en jerrican de 10 litres* | 1 | **5.300.115** |
| 750 ml hand-washing lotion green in cartridge<br>*Lotion nettoyante verte de 750 ml, pour utilisation multiple* | 8 | **5.300.120** |
| 5 litres hand-washing lotion white in canister for use in the food industry<br>*Lotion nettoyante blanche à pH neutre utilisée dans l'industrie alimentaire en jerrican de 5 litres* | 4 | **5.300.130** |
| 10 litres hand-washing lotion white in canister for use in the food industry<br>*Lotion nettoyante blanche à pH neutre utilisée dans l'industrie alimentaire en jerrican de 10 litres* | 1 | **5.300.131** |
| 5 litres hand-washing lotion and disinfection in canister for use in the food industry<br>*Lotion nettoyante désinfectante blanche à pH neutre utilisée dans l'industrie alimentaire en jerrican de 5 litres* | 4 | **5.300.140** |
| 10 litres hand-washing lotion and disinfection in canister for use in the food industry<br>*Lotion nettoyante désinfectante blanche à pH neutre utilisée dans l'industrie alimentaire en jerrican de 10 litres* | 1 | **5.300.140** |

**Hand-desinfecting lotions,** the high-quality liquid hand-desinfecting lotions are used against fungicides and bactericides

***Lotions désinfectantes pour les mains,*** *les lotions liquides désinfectantes de grande qualité sont utilisées contre les fongicides et bactéricides*

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| 500 ml hand-desinfecting lotion<br>*Lotion désinfectante de 500 ml* | 20 | **5.300.150** |
| 1000 ml hand-desinfecting lotion<br>*Lotion désinfectante de 1000 ml* | 10 | **5.300.151** |
| 5 litres hand-desinfecting lotion in canister<br>*Lotion désinfectante en jerrican de 5 litres* | 4 | **5.300.152** |
| 10 litres hand-desinfecting lotion in canister<br>*Lotion désinfectante rose en jerrican de 10 litres* | 1 | **5.300.153** |

**Surface-desinfecting liquid concentrates,** the high-quality concentrated surface-desinfecting liquids, are used mainly for the desinfection of areas in the labs, kitchens, hospitals and others against fungicides, bactericides and inactive HIV

***Liquides désinfectants concentrés,*** *pour les surfaces. Les liquides désinfectants concentrés, sont utilisés principalement pour la désinfection des surfaces dans les laboratoires, cuisines, hôpitaux et autres, contre les fongicides, les bactéricides et les HIV non-actifs*

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| 1000 ml surface-desinfecting concentrate<br>*Liquide concentré désinfectant de 1000 ml* | 12 | **5.300.160** |
| 10 litres surface-desinfecting concentrate in canister<br>*Liquide concentré désinfectant en jerrican de 10 litres* | 1 | **5.300.161** |

**Universal cleaning agents**

***Agents de nettoyage universels***

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| 1000 ml Intensive cleaning agent IR Turbo for all surfaces and suitable for high-pressure cleaners<br>*Agent de nettoyage intensif IR Turbo de 1000 ml, pour toutes les surfaces et pour utilisation avec un nettoyeur à pression* | 12 | **5.300.170** |
| 10 litres Intensive cleaning agent IR Turbo in canister, for all surfaces and suitable for high-pressure cleaners<br>*Agent de nettoyage intensif IR Turbo en jerrican de 10 litres, pour toutes les surfaces et pour utilisation avec un nettoyeur à pression* | 1 | **5.300.171** |
| 10 litres universal cleaning agent AZ Citro in canister, for all surfaces (glass, plastic, ceramic etc.) quick drying time<br>*Agent de nettoyage universel AZ Citro en jerrican de 10 litres, pour toutes les surfaces (verrerie, céramique, plastique etc.) à séchage rapide* | 1 | **5.300.180** |
| 10 litres universal cleaning alcohol AR Blue in canister, for all surfaces (glass, plastic, ceramic etc.) quick drying time<br>*Alcool de nettoyage universel AR Bleu en jerrican de 10 litres, pour toutes les surfaces (verrerie, céramique, plastique etc.) à séchage rapide* | 1 | **5.300.190** |
| 10 litres special floors cleaning agent BR in canister, for all kind of water- resistant floors<br>*Agent spécial de nettoyage BR pour sols résistants, en jerrican de 10 litres* | 1 | **5.300.200** |
| 10 litres special floors cleaning agent BR in canister, for all PVC and stone floors<br>*Agent spécial de nettoyage BR pour sols en PVC ou en pierre, en jerrican de 10 litres* | 1 | **5.300.201** |

# From glass to laboratory high-tech
## *Du verre à la haute technologie du laboratoire*

LABmax

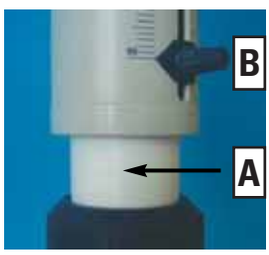
- highest reproducibility
- conformity certification and CE
- safe handling
- autoclavable at 121 °C
- dated batch certification
- fulfills all applicable standards an official demands
- adapters for all current bottles included
- comprehensive accessories

*- Haute reproductibilité*
*- Certificat de conformité et CE*
*- Utilisation sécurisée*
*- Autoclavable à 121°C*
*- Certification datée du lot*
*- En conformité avec toutes les normes applicables sur demandes officielles*
*- Adaptateurs inclus pour tous les flacons courants*
*- Kit d'accessoires*



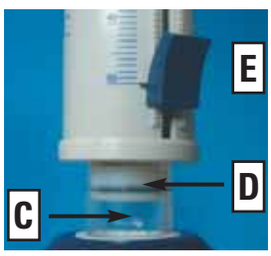
### LABmax "airless"

The LABmax "airless" is the latest dispenser generation with automatic air purging.
- PTFE cylinder (A) with special ejection channel
- piston made of borosilicate glass 3.3
- adjustment screw (B) for high-precision volume adjustment




*Le "LABmax "airless" est un distributeur tout dernière génération avec système à purge d'air automatique.*
*- cylindre en téflon (A) avec canal spécial d'éjection*
*- piston en verre borosilicaté 3.3*
*- vis de réglage (B) pour volume de haute précision*

All dispensers allow total disassembling for complete cleaning. Please follow the operating manual. All components can be replaced without problems.
Due to the constant technical improvements our products may differ from actual shown supplies.
*Tous les distributeurs sont totalement démontables pour un nettoyage efficace. Veuillez suivre le manuel d'utilisation. Toutes les pièces sont facilement remplacables.*



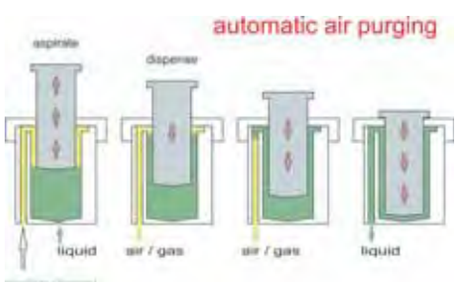

### LABmax "OE"

The LABmax "OE" is the economy dispenser without automatic air-purging.
- cylinder out of borosilicate glass 3.3 (C)
- patented long life PTFE piston (D)
- fast volume adjustment with rocker switch (E) and sprocket jags (except 100 ml "OE")

*Le "LABmax "OE" est un didistributeur économique sans système à purge d'air.*
*- cylindre en verre borosilicaté 3.3 (C)*
*- piston en PTFE brevêté (D)*
*- Réglage rapide du volume avec bouton à bascule (E) pour volume de haute précision (excepté 100 ml version "OE")*

### „Air-purging" fully automatic

The LABmax „airless" has an automatic air purging system. That avoids wrong values which concerns to gas bubbles in the device. Gas -lighter than liquid- is firstly leaving the device automatically through the special ejection channel. A contamination of the bottle contents is not possible because the air purging is managed through the ejection cannula.
If you do not wish air exchange between reagent and room air the LABmax is equipped with a connector which allows the simple attachment of different filters as well as calcium chloride tubes or a check valve.




***"Purgeage d'air" entièrement automatique***

*Le LABmax "Airless" est équipé d'un système à purge d'air automatique. Cela evite des valeurs erronées dûes à des bulles de gaz dans le système. Une contamination du flacon est impossible vu que l'air purgé est conduit à travers de la canule d'éjection. Si vous ne souhaitez pas d'échange d'air entre le réactif et la chambre à air, le LABmax est équipé d'un raccord qui permet de fixer différents filtres ainsi que des tubes CaCl ou une vanne.*



### Smooth and fatigue-free dispensing

The LABmax „airless" is made of high resistant materials and therefore high chemically and mechanically resistant and can be consequently universal (expect HF). We offer the „HF" version for hydrofluoric acid seperatly. The vertical valves assure a minimum of dead volume and also make effective cleaning possible. See operation manual for details.

***Distribution facile et sans effort***

*Le LABmax "airless" est concu avec des matériaux à haute résistance et de ce fait il est hautement résistant aux agents chimiques (excepté HF). Nous offrons aussi une version "HF" pour l'acide fluorydrique. La vanne verticale garantie un minium de volume mort et un nettoyge effectif. Voir le manuel d'empli pour plus de détails*

### Convenient volume setting

Adjusting the volume of the LABmax is done by an adjustment scew. Just open the adjustment screw a little bit - move to the desired volume - fix the screw - thats all. Precise reproducibility of the volume in the clinical field, science and research the word is LABmax. After all - if the LABmax has to be disassembled e.g. for cleaning it does not need to be readjusted after assembling. The zero-point is part of the construction and automatically calibrated.



***Sélection du volume***

*Le réglage du volume du LABmax est actionné par une vis qu'il suffit d'ouvrir légèrement, de la déplacer vers le volume désiré et de la reserrer. Le LABmax offre une précise reproductibilité du volume dans différents domaines. S'il est nécessaire de le démonter pour le nettoyage, il n'est pas nécessaire de le réajuster après son assemblage. Le point-zéro fait part de la conception et est calibré automatiquement*



### Safe by lock - a secure rest position

By turning the operation mode selector by 180° all liquid in the discharge tube flows back into the bottle. It is almost impossible for any leakage to occur when it is in that position. The LABmax is completely shut down and no accidental discharge will occur by inadvertently moving the piston. This is clearly indicated by the position of the tube and the setting of the operation mode.

***Fermeture sécurisée***

*En tournant le mode de sélection à 180°, tout le liquide se trouvant dans le tube d'écoulement retourne dans le flacon et évite ainsi le risque de fuite. Le LABmax est entièrement fermé et il n'y a aucun danger d'accident. Tout est clairement indiqué dans la position du tube et du mode opératoire.*



LABmax „OE“

**5.370.00* OE**

LABmax "OE" without air purging system, with patented PTFE-piston, complete with accessories (see Scope of Supply)

*Distributeur de liquide* LABmax *“OE“, sans système à purge d'air , avec piston en PTFE brevêté, livré avec accessoires (bagues d'adaptation pour flacon et tuyau)*

| Volume<br>*Volume*<br>ml | Division steps<br>*Traits de division*<br>ml | Tolerance<br>*Tolérance*<br>ml | CV<br>*Répétabilité*<br>ml | Thread<br>*Raccord à vis GL*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.25-2.5 | 0.05 | ± 0.012 | 0.002 | 32/33 | **5.370.001 OE** |
| 0.5-5.0 | 0.10 | ± 0.03 | 0.005 | 32/33 | **5.370.002 OE** |
| 1.0-10.0 | 0.20 | ± 0.06 | 0.010 | 32/33 | **5.370.003 OE** |
| 2.5-25.0 | 0.50 | ± 0.15 | 0.025 | 45 | **5.370.004 OE** |
| 5.0-50.0 | 1.00 | ± 0.30 | 0.050 | 45 | **5.370.005 OE** |
| 10.0-100.0 | 2.00 | ± 0.60 | 0.100 | 45 | **5.370.006 OE** |
| 25.0-250.0 | 5.00 | ± 1.60 | 0.250 | 45 | **5.370.000 OE** |




LABmax „S“

**5.370.01* OE**

LABmax **„S“** for solvents and PTFE-swelling media, with piston made of Brosilicate glass, complete with accessories (see Scope of Supply)

*Distributeur de liquide* LABmax *"S", pour solvants, avec piston en verre borosilicaté et pièces en contact avec le milieu en PTFE, livré avec accessoires (bagues d'adaptation pour flacon et tuyau)*

| Volume<br>*Volume*<br>ml | Division steps<br>*Traits de division*<br>ml | Tolerance<br>*Tolérance*<br>ml | CV<br>*Répétabilité*<br>ml | Thread<br>*Raccord à vis GL*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 1.0-10.0 | 0.20 | ± 0.06 | 0.010 | 32 | **5.370.013 OE** |
| 2.5-25.0 | 0.50 | ± 0.15 | 0.025 | 45 | **5.370.014 OE** |
| 5.0-50.0 | 1.00 | ± 0.30 | 0.050 | 45 | **5.370.015 OE** |




LABmax „HF“
**hydrofluoric acid**
**5.370.021* OE**

LABmax **„HF“** suitable for hydrofloric acid, with patended PTFE-piston, liquids comes in contact only with PTFE and platinum iridium, complete with accessories (see Scope of Supply)

*Distributeur de liquide* LABmax *"HF", pour acide fluorydrique, avec piston en PTFE brevêté et pièces en contact avec le milieu en PTFE et PtRh, livré avec accessoires (bagues d'adaptation pour flacon et tuyau)*

| Volume<br>*Volume*<br>ml | Division steps<br>*Traits de division*<br>ml | Tolerance<br>*Tolérance*<br>ml | CV<br>*Répétabilité*<br>ml | Thread<br>*Raccord à vis GL*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 1.0-10.0 | 0.20 | ± 0.06 | 0.010 | 32 | **5.370.023 OE** |
| 2.5-25.0 | 0.50 | ± 0.15 | 0.025 | 45 | **5.370.024 OE** |



LABmax „airless“

**5.370.80***

LABmax **“airless“**
with automatic air purging system, universal use, complete with accessories (see scope of supply)

*Distributeur de liquide* LABmax *de liquide "airless" avec système à purge d'air, à usage universel, complet avec accessoires (voir descriptif de la livraison)*

| Volume<br>*Volume*<br>ml | Division steps<br>*Traits de division*<br>ml | Tolerance<br>*Tolérance*<br>ml | CV<br>*Répétabilité*<br>ml | Thread<br>*Raccord à vis GL*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.25-2.5 | 0.05 | ± 0.012 | 0.002 | 32/33 | **5.370.801** |
| 0.5-5.0 | 0.10 | ± 0.03 | 0.005 | 32/33 | **5.370.802** |
| 1.0-10.0 | 0.20 | ± 0.06 | 0.010 | 32/33 | **5.370.803** |
| 2.5-25.0 | 0.50 | ± 0.15 | 0.025 | 45 | **5.370.804** |
| 5.0-50.0 | 1.00 | ± 0.30 | 0.050 | 45 | **5.370.805** |
| 10.0-100.0 | 2.00 | ± 0.60 | 0.100 | 45 | **5.370.806** |




LABmax airless „HF“
**hydrofluoric acid**
**5.370.82***

LABmax airless **„HF“** suitable for hydrofluoric acid, with automatic air purging system, liquids comes in contact only with PTFE and platinum iridium, complete with accessories (see Scope of Supply)

*Distributeur de liquide* LABmax *de liquide "airless HF", adapté pour l'acide fluorydrique, avec système à purge d'air. Liquide en contact avec des pièces en téflon et en iridium de platine, complet avec accessoires (voir descriptif de la livraison)*

| Volume<br>*Volume*<br>ml | Division steps<br>*Traits de division*<br>ml | Tolerance<br>*Tolérance*<br>ml | CV<br>*Répétabilité*<br>ml | Thread<br>*Raccord à vis GL*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 1.0-10.0 | 0.20 | ± 0.06 | 0.010 | 32 | **5.370.823** |
| 2.5-25.0 | 0.50 | ± 0.15 | 0.025 | 45 | **5.370.824** |
| 5.0-50.0 | 1.00 | ± 0.30 | 0.050 | 45 | **5.370.825** |

**Scope of Supply:**

LABmax with operation mode selector for air-puring, complete with filling- and discharge tubes, instruction manual as well as the following thread adapters:
- 2.5/5 and 10 ml adapter A 25, A 28, A 45, S 40
- 25/50 and 100 ml adapter A 28, A 32 / 45, S 40
- conformity certification, CE
- quality certification, individual serial number
- developed and produced acc. to ISO 9001:2000

*Kit d'accessoires standards livrés avec les* LABmax*:*
- *Tuyaux d'aspiration et de décharge*
- *Bagues d'adaptation A 25, A28, A45 et S40 pour les volumes de 2.5/5 et 10 ml*
- *Bagues d'adaptation A28, A32, A45 et S40 pour les volumes de 25/50 et 100 ml*
- *Certificat de conformité CE*
- *Assurance de qualité avec numéro de série*
- *Certificat ISO 9001:2000*

## LABmax FUTURE

- The LABmax FUTURE offers a large extent of applications for the dosage of aggressive reagents, e. g. strong acids like $H_3PO_4$, $H_2SO_4$, alkaline solutions like NaOH, KOH, sodium solutions and a larger number of organic solvents

- All parts coming into contact with liquid are made of following high-quality materials:
  Borosilicate glass, Ceramics, Platinum-Iridium, PTFE, PFA, FEP

- Limitations of use:
  Steam pressure max.500 mbar
  Viscosity max. 500 mm²/s
  Temperature max. 40 °C
  Density max. 2.2 g/cm³

- The LABmax FUTURE should be used in application fields of „Dispensing", „Sampling", „Pipetting", „Pumping" and is especially suitable in biochemistry use for the dispensing of culture media

*- La série LABmax FUTURE offre un nombre important d'applications pour le dosage de réactifs et acides aggrésifs tels que le $H_3PO_4$, l'$H_2SO_4$, les solutions alcalines telles que le NaOH, le KOH, les solutions de sodium et les solvants organiques*

*- Toutes les parties en contact avec le liquide sont en verre borosilicaté, en céramique, en PtRh, en PTFE, en PFA et en FEP*

*- Limites d'utilisation:*
*Pression à la vapeur max. 500 mbar*
*Viscosité max. 500 mm²/s*
*Température max. 40°C*
*Densité max., 2.2g/cm³*

*- La série LABmax FUTURE est utilisée pour la distribution, l'échantillonnage, le pipetage, le pompage et est particulièrement recommandée en biochimie pour la distribution des milieux de cultures*

**LABmax FUTURE** calibration inside, conformity certified, with patended PTFE-piston, complete with accessories

*LABmax FUTURE calibration interne, certifiée conforme, avec piston en PTFE brevêté, complet avec accessoires*

| Volume<br>*Volume*<br>ml | Division steps<br>*Traits de division*<br>ml | Tolerance<br>*Tolérance*<br>% / µl | CV<br>*Répétabilité*<br>% / µl | Thread<br>*Raccord à vis GL*<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.3-2.5 | 0.05 | 0.5 / ± 10 | 0.1% / ± 2 | 32 | **5.370.112** |
| 0.5-5.0 | 0.10 | 0.5 / ± 25 | 0.1% / ± 5 | 32 | 5.370.113 |
| 1.0-10.0 | 0.20 | 0.5 / ± 50 | 0.1% / ± 10 | 32 | **5.370.114** |

**Discharge tube** with integrated movable tube holder

***Tube de décharge,** avec porte-tube amovible*

| Volume<br>*Volume*<br>ml | Form<br>*Forme* | Order No.<br>*N° de code* |
|---|---|---|
| 0.5, 2.5, 5.0, 10.0 | fine pointed / *fine pointue* | **5.370.311** |
| 0.5, 2.5, 5.0, 10.0 | fine pointed / *fine pointue* | **5.370.340** |
| 0.5, 2.5, 5.0, 10.0 | standard | **5.370.341** |

**Flexible discharge tube,** in spiral, made of PTFE

***Tube de décharge flexible,** en serpentin, PTFE*

| Volume<br>*Volume*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5, 2.5, 5.0, 10.0 | 6.9 | 250 | **5.370.411** |

**Filling tube for LABmax FUTURE,** made of FEP

***Tube de remplissage** pour la série LABmax FUTURE, en FEP*

| Volume<br>*Volume*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5, 2.5, 5.0, 10.0 | 6.9 | 250 | **5.370.510** |

**Filling hose for LABmax FUTURE,** made of PTFE, for barrels and tanks

***Tuyau de remplissage** pour la série LABmax FUTURE, en PTFE, pour barils et réservoirs*

| Volume<br>*Volume*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5, 2.5, 5.0, 10.0 | 6.9 | 2000 | **5.370.530** |

**Filling valve with sealing for LABmax FUTURE**

***Vanne de remplissage** avec fermeture pour la série LABmax FUTURE*

| Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 0.5, 2.5, 5.0, 10.0 | **5.370.610** |



**LABmax Future**

**5.370.114**



LABmax Future

**5.370.114**

**Filling valve with sealing for LABmax FUTURE „HF“**

***Vanne de remplissage** avec fermeture pour la série LABmax **FUTURE** "HF"*

| Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 10.0 | **5.370.660** |

**Discharge valve with sealing for LABmax FUTURE**

*Vanne de décharge avec fermeture pour la série LABmax **FUTURE***

| Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 0.5, 2.5, 5.0, 10.0 | **5.370.710** |

**Discharge valve with sealing for LABmax FUTURE „HF“**

*Vanne de décharge avec fermeture pour la série LABmax **FUTURE** "HF"*

| Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 10.0 | **5.370.760** |

# MINISPENSOR

**The bottle top dispenser for dosings in the microliter range with 2 „fix adjustable“ volumes**

In medical and diagnostical laboratories a dispenser in the microliter range will be required, with which accurate volumes can be dosed with one hand only. This operation was done in the past by microliter pipettes. The top technology of witeg has fulfilled this requirement with engeneering the **MINISPENSOR**.

***Le distributeur pour flacon destiné aux dosages en microlitres et simple d'utilisation***

*Entretien facile. Le **MINISPENSOR** est démontable. Le **MINISPENSOR** est entièrement autoclavable*

**Easy to maintain**

The **MINISPENSOR** is constructed easy to maintain. For sophisticated cleaning the upper part can be completely dismantled.



**The MINISPENSOR is completely sterilizable.**

***Le MINISPENSOR est entièrement autoclavable***

**Conformity**

With the symbol ⌂ we certify the conformity with the specifications of Annex 12 of the German Weights and Measures Regulations provided the instrument is used with accessories supplied by us and in accordance to the operating manual.

***Conformité***

*Avec le symbole ⌂ nous certifions la conformité en relation à l'annexe 12 de la réglementation allemande des "Poids & Mesures" et des accessoires livrés conformément au mode d'emploi*

**Safe volume adjustment**

The **MINISPENSOR** will be delivered with one volume adapter, which is subdivided in 2-fix-volumes. By turning the push button the volumes can be adjusted easyly and precisely.

***Réglage sécurisé du volume***

*Le **MINISPENSOR** est fourni avec un adaptateur de volume qui est subdivisé en 2 volumes fixes. En tournant le bouton-poussoir, les volumes peuvent être facilement ajustés et d'une manière trés précise*



When turning the push-button a second volume stop will click into place which is half of the total lifting.

*En tournant le bouton-poussoir, un deuxième stop du volume est actionné*

**Perfect handling**

Unlike the conventional dispensers is the fatique-proof handling. Uncramped, relaxed and stressless long series can be managed. With three fingers only the new developed dispenser can be manipulated. The push-botton will be pressed down for dispensing with the thumb as with automatic pipettes. With the help of a spring the selected volume will be drawn back to the cylinder automatically.

***Utilisation parfaite***

*Seulement avec trois doigts il est facile de manipuler le nouveau distributeur. Le bouton poussoir est enfoncé pour assurer la distribution comme pour les micropipettes. A l'aide d'un ressort, le volume sélectionné est entrainé automatiquement dans le cylindre.*

**It´s your money going down the drain!**

Please, calculate for once your monthly consumption of pipette tips. Maybe you can exchange an expensive pipette by a **MINISPENSOR**.

***C'est votre argent qui s'écoule!***

*Calculez votre consommation mensuelle en embouts de pipette, peut-être que le remplacement de votre pipette coûteuse par un système **MINISPENSOR** vous rendra service.*

**Safe the environment**

Whenever you do not really need to work with a pipette we recommend our tip saving **MINISPENSOR**.

***Protégez l'environnement!***

*Si vous ne devez pas travailler avec une pipette, alors nous vous recommandons notre **MINISPENSOR***

## MINISPENSOR

**Fix-Volume-Bottle-Top-dispenser x 2**
for accurate delivery of **microliter quantities.** Just screw it onto the bottle, press the plunger - thats all!

- the bottle-top micro dispenser even for hospital laboratories (glucose test, Gama GT, Chreatinine, Urea, Cholesterol, Amylase, Lypose, Iric acid, Bilirubin a.s.o.)
- for single handed operation
- due to direct displacement no sticking or jamming of the plunger
- suitable for storage in a fridge
- substitution for microliter pipettes
- special volume adapters available on request
- just select the required volume and press the plunger - thats all
- no tips required

## MINISPENSOR

2x-**Fixvolume-dispenser**
Complete with accessories (with thread connector GL 28, 1 volume adapter and 1 bottle, both ST 28/32, suction tube and discharge tube)

## MINISPENSOR

*Distributeur à deux volumes fixes en microlitres, pour montage sur flacon à col fileté.*

*- Utilisation simple, dans les laboratoires médicaux (test du glucose, Gama GT, Chreatinine, Urée, Cholestérol, Amylase, Lypose, Acide irique, Bilirubine etc.*
*- Utilisation à une main*
*- A la place des micro-pipettes*
*- Adaptateurs spéciaux de volume disponibles sur demande*
*-Simplement sélectionner le volume désiré et appuyer sur le piston*
*- Pas d'embouts à utiliser*

***Distributeur* MINISPENSOR *à 2 volumes fixes,*** *complet avec accessoirs (bague de raccordement GL28, 1 adaptateur de volume, 1fflacon en verre à racord 28/32, et un tuyau de décharge, et d'aspiration*

| Volume range<br>*Echelle du volume*<br>µl | A<br>*Précision*<br>≤ ± % | CV<br>*Répétabilité*<br>≤ ± % | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 + 100 | 2.0 | 0.5 | **5.371.101** |
| 250 + 500 | 1.0 | 0.2 | **5.371.525** |
| 500 + 1000 | 1.0 | 0.2 | **5.371.950** |
| 1000 + 2000 | 0.7 | 0.2 | **5.371.990** |



MINISPENSOR

## Accessories for LABmax, MINISPENSOR, TITREX

## *Accessoires pour* LABmax, MINISPENSOR, TITREX

**Bottles for LABmax, MINISPENSOR, TITREX**
made of soda lime brown-glass, LEVASINT®-coated, screw cap made of Polypropylene (PP), space saving square shape

***Flacons en verre brun de chimie,*** *avec revêtement de sécurité en LEVASINT et bouchon à vis en polypropylène (PP) pour les* LABmax, MINISPENSOR *et* TITREX

| Capacity<br>*Capacité*<br>ml | Thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 100 (MINISPENSOR) | 28 | **5.372.128** |
| 100 | 32 | **5.372.101** |
| 250 | 32 | **5.372.025** |
| 500 | 32 | **5.372.050** |
| 1000 | 45 | **5.372.100** |
| 2500 (round form / *forme ronde*) | 45 | **5.372.250** |



**Bottle for LABmax, TITREX**
made of brown glass, with center screw neck and side entry filler neck for refilling the bottle without removing the LABmax or TITREX, capacity 2000 ml

***Flacons en verre brun de chimie,*** *à col central fileté et orifice de remplissage latéral, pour* LABmax *ou* TITREX, *capacité 2000 ml*

| | Order No.<br>*N° de code* |
|---|---|
| | **5.372.300** |



3.377.300



Filling tubes

**Filling tubes, for LABmax, MINISPENSOR,** made of FEP

***Tuyaux de remplissage en FEP,*** *pour* **LABmax** *et* **MINISPENSOR**

| Suitable for type<br>*Pour type* | Length x outer Ø<br>*Longueur x Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| LABmax 2.5 - 10 | 250 x 5 | 5.375.000 |
| LABmax 25 - 100 | 335 x 6 | 5.375.001 |
| MINISPENSOR 50 - 100 | | 5.375.004 M |
| MINISPENSOR 100 - 2000 | | 5.375.014 |



Discharge tubes

**Discharge tubes, for LABmax, MINISPENSOR** made of FEP, complete with support sleeve

***Tuyaux de décharge en FEP,*** *pour* **LABmax** *et* **MINISPENSOR**, *complet avec raccord*

| For type<br>*Pour type* | Type<br>*Type* | Volume<br>*Volume* | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| LABmax | bent / *coudé* | 2.5 - 10 ml | 80 | 5.375.003 |
| LABmax | bent / *coudé* | 25 - 100 ml | 120 | 5.375.004 |
| MINISPENSOR | bent, fine tip<br>*coudé, point fine* | 50 - 21000 µl | | 5.375.013 |



Flexible discharge tubing

**Flexible discharge tubing, for LABmax** made of PTFE, coiled, complete with tubing support, length 800 mm

***Tuyaux de décharge flexible en serpentin,*** *PTFE, pour* **LABmax**, *complet avec raccord, longueur 800mm*

| Suitable for type<br>*Pour type* | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| LABmax 2.5 - 10 | 3.0 | 2.0 | 5.375.002 |
| LABmax 25 - 100 | 4.3 | 3.4 | 5.375.012 |

**Reflux tube** for **LABmax** 25 to 100 ml and **TITREX** 50 ml

***Tube à reflux,*** *pour* **LABmax** *de 25 à 100 ml et* **TITREX** *de 50 ml*

| Order No.<br>*N° de code* |
|---|
| 5.375.011 |



Thread adapters

**Thread adapters for LABmax, MINISPENSOR, TITREX,** made of PP (PTFE on request)

***Bagues filetées d'adaptation*** *pour* **LABmax, MINISPENSOR** *et* **TITREX**, *en polypropylène*

| Thread<br>*Filetage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| A 22 | 5.377.022 |
| A 25 | 5.377.025 |
| A 28 | 5.377.028 |
| A 30 | 5.377.030 |
| A 32 / A 28* | 5.377.032 |
| A 38 | 5.377.038 |
| A 40 | 5.377.040 |
| A 45 / A 32** | 5.377.600 |
| A 45 | 5.377.045 |

* from A 28 to A 32 (**MINISPENSOR**) / *de A28 à A32 pour* **MINISPENSOR**
** from A 45 to A 32 inverted / *de A45 à A32, inversé*



3.377.222

**Bottle stand** for **LABmax** up to 10 ml and bottles up to 250 ml, as well as **MINISPENSOR,** adjustable height, rubber feet

***Support de flacon,*** *pour LABmax jusqu'à 10 ml et flacons jusqu'à 250 ml, ainsi que pour* **MINISPENSOR**, *à hauteur réglable et pièds en caoutchouc*

| Order No.<br>*N° de code* |
|---|
| 5.377.222 |



3.377.300

**Check valve,** made of Borosilicate glass, with plastic coating to be inserted into the ventilation channel of the operation mode selector. For fuming acids and strong smelling liquids like linol or brom etc.

***Vanne de vérification,*** *en verre borosilicaté, avec revêtement en plastique à insérer dans le canal d'aération du sélecteur de fonction. Recommandée pour les acides forts et aggressifs*

| Order No.<br>*N° de code* |
|---|
| 5.377.300 |

**Calcium chloride tube,** made of borosilicate glass, with plastic coating. to protect reagents in the bottle from moisture from the outside

***Tube de séchage au chlorure de calcium,*** *en verre borosilicaté, avec revêtement en plastique. Permet de protéger l'acide contenu dans le flacon contre l'humidité*

| | Order No. |
|---|---|
| | *N° de code* |
| | 5.377.310 |



3.377.310

**ST-adapters for LABmax, MINISPENSOR, TITREX,** made of borosilicate glass, 1 piece each pack

***Raccords à rodage et à filetage,*** *en verre borosilicaté, pour* **LABmax, MINISPENSOR** *et* **TITREX**

| Thread | Cone | Order No. |
|---|---|---|
| *Filetage* | *Cône mâle* | *N° de code* |
| GL | ST | |
| 32 | 19/26 | 5.380.019 |
| 32 | 24/29 | 5.380.024 |
| 32 | 29/32 | 5.380.029 |
| 45 | 29/32 | 5.380.129 |
| 45 | 45/40 | 5.380.145 |



**ST-adapters for LABmax, MINISPENSOR, TITREX**

# WITOPED XP and WITOPED ECO

## electrical pipette filling for professionals

## *Pipeteur électrique de remplissage pour les professionnels*





**WITOPED XP rechargeable Pipetting** for all pipettes from 0.1 to 100 ml, complete with 4 filters and recharger, unit ready for use

*Pipeteur rechargeable* **WITOPED XP**, *pour toutes les pipettes de 0.1 à 100 ml, livré complet avec 4 filtres et chargeur*

| Type | Order No. |
|---|---|
| *Type* | *N° de code* |
| 220 V | 5.380.001 |
| 110 V | 5.380.002 |
| **Spare parts /** *Pièces de rechange* | |
| Rubber adaptor / *Raccord en caoutchouc* | 5.380.004 |
| Spare filter (set of 5 pcs.) / *Jeu de 5 filtres de rechange 0.2 µm* | 5.380.006 |



3.380.***

**WITOPED ECO** the low priced pipetting help with 8 different speed levels for suction and discharging. For glass and plastic pipettes from 0.1 ml up to 100 ml. Recharger and 2 liquid stopping one-way filters included

*Pipeteur rechargeable* **WITOPED ECO**, *version économique pour le pipetage à l'aide de pipettes de 0.1 ml à 100 ml, avec 8 vitesses différentes pour l'aspiration et le refoulement. Livré avec chargeur et 2 iltres d'arrêt à usage unique*

| Type | Order No. |
|---|---|
| *Type* | *N° de code* |
| | 5.381.000 |
| **Spare parts /** *Pièces de rechange* | |
| Rubber adaptor / *Raccord en caoutchouc* | 5.382.010 |
| Spare filter (set of 5 pcs.) / *Jeu de 5 filtres de rechange 0.2 µm* | 5.380.006 E |




3.381.000

# TITREX 2000

**Burettes digital**
Using the TITREX 2000, you will „recognize“ the changing point faster than with common glass burettes, more sensitive and, for sure less costly than with motor burettes. Hereby the dosing speed is adjusted when turning the handwheels steplessly from fast to drop by drop. The witeg burette has the advantage that the piston only without headweight is moving during the titrating process and few turnings on the wheel are sufficient to take the preselected volume. A total volume of 50 ml should be sufficient because all burette volumes can be simulated since the volume which is being sucked is determined via the display and continuously read out.

# TITREX 2000

## 1 instrument for all volumes

**Software and interface cord FREE OF CHARGE**

**Your special advantage!**
You do not need several sizes of the TITREX 2000 - just push the button „DOS“, watch the display and with only a few turns of the handwheel you fill the burette cylinder with volumes between 0 to 50 ml - enough for several titrations.



**Calibration**
The permanent calibration of the TITREX 2000 is adjusted to water at 20 °C.
For liquids of different viscosities/densities the TITREX 2000 can be easily recalibrated by pushing the button „O/CAL“ - just follow the detailed instructions of the manual.
You can set calibration intervalls with referring reminder (recalibration timer).



**Practical and fast pre-selection of volumes needed for titrations**
Just push the key „DOS“ and you can pre-select the burette-volume for your titrations. By watching the display you always can control the volume of liquid, that you suck-in to the buerette cylinder. Press the button „zero“ and titration can start immediately. It could not be quicker, handier and more accurate than with a glass burette and more sensitive than with a motor dirven burette. The key „MEM“ (memory) helps to avoid complicated calculations.

**...finally**
- automatic power-cut-off after 3 minutes
- operating temperature 10-40 °C
- transport and storage temperature max. 60 °C
- a flashing indicator in the display shows, when charging of the battery is required. Running titrations remains unaffected.
- up to 1000 data sets may be stored in the memory and are available for data evaluation on PC or printers. Together with the Excel software specific evaluations are possible.
- included “Titrexsoft”-software with interface cord
- read out of operating hours

**Safe and secure restposition**
By turning the operation mode selector by 180° all liquid in the discharge tube flows back into the bottle.
It is almost impossible for any leakage to occur when it is in that position.
The TITREX 2000 is completely shut down and no accidental discharge will occur by inadvertently moving the piston. This is clearly indicated by the position of the tube and the setting of the operation mode.



The first Witeg burette, developed in conformity with ISO 9001 and of course conformity certified

# „Calibration inside“

## EN ISO 9000 ff, GLP/GMP

**We have meanwhile developed a new generation of the WITEG-measuring instruments (e. g. TITREX 2000). All electronical measuring devices can justify the accuracy without any tools. Just call up the installed „CAL“ programme and the justification can be made without any problems. This device shows you continuously the new value being actualized.**
**It´s very easy and simple to work with.**









All dosing and titration processes up to 1000 data can be stored non-stop and evaluated at your PC or be printed with almost any printer. Statistical data evaluation can be set up if an Excel programme is used in addition.
**Titrex inclusive of Software on CD-ROM, interface cord.**




**TITREX 2000 digital burette,** complete with filling and discharging tube, instruction manual as well as the following thread adapters: A25, A28, A32/45, S45; conformity certification. CE, single tested, quality certification, individual serial number

***Burette digitale* TITREX 2000,** *complète avec tube d'aspiration et d'écoulement, manuel d'emploi et jeu de bagues d'adaptation: A25, A28, A32/45, S45, certificat de conformité CE, testée individuellement, assurance de qualité, numéro de série individuel*

| Type<br>*Type* | Volume range<br>*Volume* | Resolution<br>*Résolution* | A<br>*Précision* | CV<br>*Répétabilité* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | ml | ml | ≤ ± % | ≤ ± % | |
| Standard version / *Version standard* | | | | | **5.497.050 OE** |
| | 0 - 50 | 0.01 | 0.2 | 0.1 | |
| Version with fine adjustment / *Version à réglage fin* | | | | | **5.497.150 OE** |
| | 0 - 50 | 0.01 | 0.2 | 0.1 | |

**Accessories** / *Accessiores*

| | |
|---|---|
| **TITREX suction tube**, made of PTFE, natural color<br>*Tube d'aspiration en PTFE* | **5.497.200** |
| **TITREX discharge tube**, made of PTFE, natural color<br>*Tube de décharge en PTFE* | **5.497.300** |
| **TITREX discharge tube**, made of PTFE, with tube holder, natural color<br>*Tube de décharge avec raccord* | **5.497.400** |
| **TITREX charger,** 100 - 240 V AC, 50 - 60 Hz<br>*Chargeur 220V-50Hz* | **5.497.500** |
| **TITREX thread adapter** (reduction adapter) GL 45 - GL 32<br>*Bague réductrice d'adaptation GL45-GL32* | **5.497.600** |
| **TITREXSOFT** software for data evaluation<br>*Logiciel* **TITREXSOFT** *pour acquisition de données et évaluation* | **5.497.700** |

The new witeg hand help dispenser for dosings in series in the range of 1 µl to 5000 µl, 1 **WITIP** filling permits up to 48 dispensing steps of 29 different volumes in intervals of 1 second without refilling and thus saves about 90 % of working time, which would have to be spent when using the traditional pipetting techniques. 1 adapter for **WITIPS** 25 ml and 50 ml is included to each **WITOPETTE**.

*Le Nouveau distributeur à main* **WITOPETTE** *de Witeg, pour des dosages en série compris entre 1 µl et 5000 µl. Un remplissage* **WITIP** *offre jusqu'à 48 distributions parmi 29 volumes différents dans des intervalles de 1 seconde sans nécessité de le remplir et ainsi un gain de temps réduit d'environ 90% par rapport aux autres techniques raditionnelles de pipetage*

**Technical data:**
Weight: approx. 100 g
Reproducibility and accuracy:
Bidestilled water at 20-25 ± 0.5 °C constant (acc. to DIN 12 650)

***Spécifications techniques:***
*Poids: env. 100 g*
*Reproductibilité et précision:*
*Eau distillée à 20-25°C ± 0.5 °C constant (selon DIN 12650)*



**5.385.200**

**WITOPETTE**
hand held dispenser for dosings in series from 1 µl - 5000 µl, incl. adapter for **WITIPS** 25 and 50 ml, for the use with **WITIPS**, Combitips® and Brandtips

***Distributeur*** **WITOPETTE** *pour dosages en série entre 1µl et 5000µl, livré avec adaptateur pour l'utilisation de* **WITIPS** *de 25 et 50 ml. Compatible aussi avec Combitips et Brandtips*

| | Order No.<br>*N° de code* |
|---|---|
| | **5.385.200** |

**WITIPS,** suitable for **WITOPETTE** and Multipette® 4780

**WITIPS**, *pour le distributeur* **WITOPETTE** *et la MULTIPETTE® 4780*

| Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.05 | 100 | **5.385.222** |
| 0.5 | 100 | **5.385.223** |
| 1.25 | 100 | **5.385.224** |
| 2.5 | 100 | **5.385.225** |
| 5.0 | 100 | **5.385.226** |
| 12.5 | 100 | **5.385.227** |
| 25.0 | 50 | **5.385.228** |
| 50.0 | 25 | **5.385.229** |



**Spare adapter for WITIPS-G,** 25 and 50 ml

***Adaptateur de rechange*** *pour* **WITIPS-*G***, *25 et 50 ml*

| | Order No.<br>*N° de code* |
|---|---|
| | **5.385.234** |

**WITIPS,** sterile, single packed suitable for **WITOPETTE** and Multipette® 4780

**WITIPS,** *stériles, emballage individuel, pour* **WITOPETTE** *et MULTIPETTE® 4780*

| Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.5 | 100 | **5.385.252** |
| 1.25 | 100 | **5.385.253** |
| 2.5 | 100 | **5.385.254** |
| 5.0 | 100 | **5.385.255** |
| 12.5 | 100 | **5.385.256** |
| 25.0 | 50 | **5.385.257** |
| 50.0 | 25 | **5.385.258** |

**WITIPS,** made of glass and PTFE, suitable for **WITOPETTE** and other dispensers
- for corrosive liquids and aggressive accid p. ex triflour which are attacking the standard Polypropylene of the conventional tips

**WITIPS**, *en verre et PTFE, pour le distributeur* **WITOPETTE** *et autres distributeurs.*
- *Résistant aux liquides corrosifs et acides aggressifs qui attaquent facilement le polypropylène*

| Capacity<br>*Capacité*<br>ml | Screw-thread<br>*Filetage*<br>GL | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 32 | 1 | **5.385.428** |
| 50 | 45 | 1 | **5.385.429** |

# WITOPET - Single channel, Fix

**Microliter-pipettes, WITOPET FIX with tip ejector,** suitable for all brands of disposable tips, optimum shaft length, ergonomic design for nonfatquing operation even over longer periods, **conformity certified**

***Micropipettes WITOPET,*** *version simple à volume fixe, avec éjecteur d'embout, livrées avec certificat de conformité*



| Volume<br>*Volume*<br>µl | A<br>*Précision*<br>≤ ± % | CV<br>*Répétabilité*<br>≤ ± % | Matching pipette tips<br>*Embouts compatibles* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 0.8 | 1.0 | Biohit - Gilson - Axygen - Witeg | **5.401.005** |
| 10 | 0.4 | 0.7 | Biohit - Gilson - Brand - Witeg | **5.401.010** |
| 20 | 0.4 | 0.7 | Biohit - Gilson - Brand - Witeg | **5.401.020** |
| 25 | 0.2 | 0.6 | Biohit - Gilson - Brand - Witeg | **5.401.025** |
| 50 | 0.2 | 0.5 | Biohit - Gilson - Brand - Witeg | **5.401.050** |
| 100 | 0.2 | 0.5 | Biohit - Gilson - Brand - Witeg | **5.401.100** |
| 200 | 0.2 | 0.5 | Biohit - Gilson - Brand - Witeg | **5.401.200** |
| 250 | 0.2 | 0.5 | Biohit - Gilson - Brand - Witeg | **5.401.250** |
| 500 | 0.2 | 0.5 | Biohit - Gilson - Brand - Witeg | **5.401.500** |
| 1000 | 0.2 | 0.5 | Biohit - Gilson - Brand - Witeg | **5.401.910** |
| 1000 | 0.2 | 0.5 | Biohit - Gilson - Brand - Witeg | **5.401.950** |

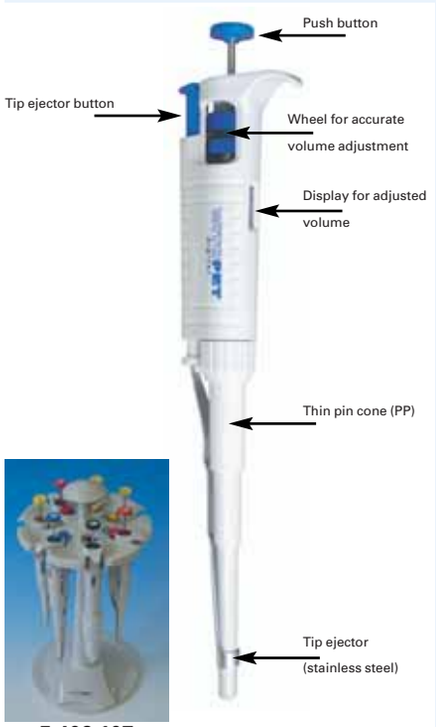
# WITOPET - variable Microliterpipette

**Microliter-pipettes, WITOPET variable,** suitable for all brands of pipette tips, ergonomical design to fit the hand, comfortable operation overcome the fatique and strain of repetitive pipetting, **conformity certified**

***Micropipettes WITOPET*** *à volume variable, compatibles avec la plupart des marques d'embouts, livrées avec certificat de conformité*



| Volume<br>µl | Type<br>*Type* | Division<br>*Division*<br>µl | Capacity<br>*Capacité*<br>µl | A<br>*Précision*<br>≤ ± % | CV<br>*Répétabilité*<br>≤ ± % | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.2 - 2 | PL 2<br>PL 2<br>PL 2 | 0.1 | 0.2<br>1.0<br>2.0 | 12.0<br>2.7<br>1.5 | 6.0<br>1.3<br>0.7 | **5.402.002** |
| 0.5 - 10 | PL 10<br>PL 10<br>PL 10 | 0.1 | 0.5<br>5<br>10 | 4.0<br>1.0<br>0.5 | 4.0<br>0.8<br>0.4 | **5.402.010** |
| 2 - 20 | PL 20<br>PL 20<br>PL 20 | 0.1 | 2<br>10<br>20 | 4.0<br>1.0<br>0.8 | 3.0<br>0.7<br>0.4 | **5.402.020** |
| 10 - 100 | PL 100<br>PL 100<br>PL 100 | 1.0 | 10<br>50<br>100 | 1.6<br>1.0<br>0.8 | 0.8<br>0.4<br>0.3 | **5.402.100** |
| 20 - 200 | PL 200<br>PL 200<br>PL 200 | 1.0 | 20<br>100<br>200 | 2.0<br>1.0<br>0.6 | 0.6<br>0.3<br>0.3 | **5.402.200** |
| 100 - 1000 | PL 1000<br>PL 1000<br>PL 1000 | 10 | 100<br>500<br>1000 | 0.7<br>0.7<br>0.6 | 0.5<br>0.5<br>0.5 | **5.402.901** |
| 1000 - 5000 | PL 5000<br>PL 5000<br>PL 5000 | 10 | 1000<br>2500<br>5000 | 0.6<br>0.6<br>0.5 | 0.3<br>0.3<br>0.2 | **5.402.950** |




**Accessories /** *Accessoires*

Pipette support WITOPET. Suitable for al sizes of WITOPET for 7 pipettes **5.406.107**

*Portoir pour 7 micropipettes de toutes tailles*



**5.406.107**




# WITOPET - variable economy

**Microliter-pipettes, WITOPET variable economy**
- Leightweight ergonomic design
- Digital display clearly reads volume setting
- The range of pipettor covers a volume range from 0.1 µl to 5000 µl
- -easy to calibrate and maintenance

***Micropipettes WITOPET** à économie variable*
*-forme ergonomique et légère*
*-affichage digital du volume*
*-Plages de 0.1µl à 5 ml*
*-Calibrage et maintenance simple*

| Volume<br>µl | Division<br>*Division*<br>µl | Capacity<br>*Capacité*<br>µl | A<br>*Précision*<br>≤ ± % | CV<br>*Répétabilité*<br>≤ ± % | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 0.1 - 2.5 | 0.05 | 2.5<br>1.25<br>0.25 | 2.50<br>3.00<br>12.00 | 2.00<br>3.00<br>6.00 | **5.402.002 D** |
| 0.5 - 10 | 0.1 | 10.0<br>5.0<br>1.0 | 1.00<br>1.50<br>2.50 | 0.80<br>1.50<br>1.50 | **5.402.010 D** |
| 2 - 20 | 0.5 | 20.0<br>10.0<br>2.0 | 0.90<br>1.20<br>2.50 | 0.40<br>1.00<br>2.00 | **5.402.020 D** |
| 10 - 100 | 1.0 | 100.0<br>50.0<br>10.0 | 0.80<br>1.00<br>3.00 | 0.15<br>0.40<br>1.50 | **5.402.100 D** |
| 20 - 200 | 1.0 | 200.0<br>100.0<br>20.0 | 0.60<br>0.80<br>3.00 | 0.15<br>0.30<br>1.00 | **5.402.200 D** |
| 100 - 1000 | 5.0 | 1000.0<br>500.0<br>100.0 | 0.50<br>0.70<br>0.90 | 0.20<br>0.25<br>0.30 | **5.402.901 D** |
| 1000 - 5000 | 50.0 | 5000.0<br>2500.0<br>1000.0 | 0.50<br>0.60<br>0.70 | 0.15<br>0.30<br>0.30 | **5.402.950 D** |

# WITOPET EP Digital



5.402.3**

**Microliter-pipettes, WITOPET Digital,** with battery and charger console **conformity certified**

***Micropipettes digitales WITOPET** à volume variable avec batterie et station de rechargement, livrées avec certificat de conformité*

| Volume<br>µl | Type<br>*Type* | Division<br>*Division*<br>µl | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 - 20 | EP 20 | 0.1 | **5.402.302 S** |
| 20 - 200 | EP 200 | 1.0 | **5.402.320 S** |
| 100 - 1000 | EP 1000 | 1.0 | **5.402.390 S** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Battery charger console / *Station de rechargement* | **5.402.450** |
| Lithium-ion battery, for **WITOPET** EP Digital / *Batterie en Lithium-Ion* | **5.402.455** |



5.402.4**

**8-channel electronic pipettes, WITOPET Digital,** with battery and charger console **conformity certified**

***Micropipettes électroniques et digitales à 8-canaux WITOPET**, avec batterie et station de rechargement, livrées avec certificat de conformité*

| Volume<br>µl | Type<br>*Type* | Division<br>*Division*<br>µl | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 - 20 | EP8 20 | 0.1 | **5.402.402 S** |
| 20 - 200 | EP8 200 | 1.0 | **5.402.420 S** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Battery charger console / *Station de rechargement* | **5.402.450** |
| Lithium-ion battery, for **WITOPET** EP Digital / *Batterie en Lithium-Ion* | **5.402.455** |

**8 and 12 channel pipettes**
WITOPET-Multi, variable adjustable multichannel pipette designed for comfort over long term repetitive pipetting. 8 or 12 indentical volumes for titration plates.
3 volume ranges - 0.5 - 10 µl, 5 - 50 µl and 50 - 300 µl -. Highest possible accuracy and precision. Each pipette is individually tested and delivered with a test certificate.
- Designed for operator´s comfort over long term repetitive pipetting
- Easy readable digital volume display, volume ranges colour coded on the push button
- Volumes steplessly adjustable
- The tip ejector can be blocked to avoid mis-application when using the instrument over large series

***Micropipettes à 8 ou 12-canaux*** WITOPET-*Multi, à volume variable, pour pipetage répétitif sur plaques de titrage, affichage digital du volume réglable en continu, avec éjecteur d'embout pouvant être bloqué. Livrées avec certificat de conformité*



**5.403.1****

**8-channel pipettes,** WITOPET-Multi

***Micropipettes*** WITOPET-*Multi à 8-canaux*

| Volume<br>µl | Type<br>*Type* | Division<br>*Division*<br>µl | Capacity<br>*Capacité*<br>µl | A<br>*Précision*<br>≤ ± % | CV<br>*Répétabilité*<br>≤ ± % | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.5 - 10 | ME 10 | 0.1 | 10<br>5<br>1 | 1.5<br>2.5<br>4.0 | 1.5<br>2.5<br>4.0 | **5.403.101** |
| 5 - 50 | ME 50 | 1.0 | 50<br>25<br>5 | 1.0<br>1.5<br>3.0 | 0.5<br>1.0<br>2.0 | **5.403.105** |
| 50 - 300 | ME 300 | 1.0 | 300<br>150<br>50 | 0.7<br>1.0<br>1.5 | 0.25<br>0.5<br>0.8 | **5.403.130** |



**5.403.2****

**12-channel pipettes,** WITOPET-Multi

***Micropipettes*** WITOPET-*Multi à 12-canaux*

| Volume<br>µl | Type<br>*Type* | Division<br>*Division*<br>µl | Capacity<br>*Capacité*<br>µl | A<br>*Précision*<br>≤ ± % | CV<br>*Répétabilité*<br>≤ ± % | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 0.5 - 10 | ME 10 | 0.1 | 10<br>5<br>1 | 1.5<br>2.5<br>4.0 | 1.5<br>2.5<br>4.0 | **5.403.201** |
| 5 - 50 | ME 50 | 1.0 | 50<br>25<br>5 | 1.0<br>1.5<br>3.0 | 0.5<br>1.0<br>2.0 | **5.403.205** |
| 50 - 300 | ME 300 | 1.0 | 300<br>150<br>50 | 0.7<br>1.0<br>1.5 | 0.25<br>0.5<br>0.8 | **5.403.230** |



5.405.005



**Microliter pipettes, WITOPET-MINI,**
the most competitive way of quick pipetting
- with quality certificate per lot (individual certificate on request)
- Minimumsize / maximum accuracy with overall length of 130 mm only, gives the mini-pipette the complete work-feeling of a pipette
- Two stage plunger ensures last drop dispensing
- Smart tip cone design allows perfect fit for 200 µl as well as 20 µl tips
- Fully autoclavable
- Colour code
- 6 fix volumina from 5 µl to 100 µl

***Mini Micropipettes* WITOPE-*MINI,*** *forme stylo de 130 mm, à volume fixe, entièrement autoclavable, avec code couleur et livrées avec certificat de conformité*

| Volume<br>*Volume*<br>µl | A<br>*Précision*<br>≤ ± % | CV<br>*Répétabilité*<br>≤ ± % | Colour code<br>*Code-couleur* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 4.0 | 2.5 | | **5.405.005** |
| 10 | 3.2 | 1.4 | | **5.405.010** |
| 20 | 3.0 | 0.5 | | **5.405.020** |
| 25 | 1.5 | 1.1 | | **5.405.025** |
| 50 | 1.5 | 0.4 | | **5.405.050** |
| 100 | 1.5 | 0.3 | | **5.405.100** |

**WITOPETTOR, the positive displacement microliter pipette**
**Where air-displacement microliter pipettes have their limits, the WITOPETTOR has its field of application:**
- pipetting of high viscous media, such as oils resins and fats up to viscosity of 50.000 mm²/s
- for pipetting of medias of high density up to 13.6 g/cm³ such as mercury, sulphuric acid etc.
- for pipetting of medias with foam-forming tendency
- for pipetting of liquids with high vapour pressure

***Micropipettes* WITOPETTOR** *destinées au pipetage de milieu hautement visqueux tels que les résines et graisses jusqu'à une viscosité de 50.000 mm²/s, mais aussi pour les milieux à haute densité allant jusqu'à 13.6 g/cm³ tels que le mercure, l'acide sulfurique etc... et autres produits moussants ou à haute pression de vapeur*

**WITOPETTOR variable,**
conformity certified, the positive lock prevents accidental volume changes

***Micropipettes à volume variable* WITOPETTOR**, *livrées avec certificat de conformité*



| Volume<br>*Volume*<br>µl | Division<br>*Division*<br>µl | A<br>*Précision*<br>± % | Suitable capillary<br>*Capillaire recommandé* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2 - 10 | 0.01 | 1 | 5.405.410 | **5.405.201** |
| 5 - 25 | 0.1 | 1 | 5.405.425 | **5.405.202** |
| 10 - 50 | 0.1 | 1 | 5.405.450 | **5.405.203** |
| 20 - 100 | 0.1 | 1 | 5.405.490 | **5.405.204** |
| 100 - 1000 | 1.0 | 1 | 5.405.495 | **5.405.205** |

**WITOPETTOR fix,** conformity certified

***Micropipettes à volume fixe* WITOPETTOR**, *livrées avec certificat de conformité*

| Volume<br>*Volume*<br>µl | A<br>*Précision*<br>± % | Suitable capillary<br>*Capillaire recommandé* | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 1 | 5.405.401 | **5.405.301** |
| 2 | 1 | 5.405.401 | **5.405.302** |
| 3 | 1 | 5.405.401 | **5.405.303** |
| 4 | 1 | 5.405.401 | **5.405.304** |
| 5 | 1 | 5.405.401 | **5.405.305** |
| 10 | 1 | 5.405.410 | **5.405.310** |
| 50 | 1 | 5.405.450 | **5.405.350** |
| 100 | 1 | 5.405.490 | **5.405.3100** |
| 250 | 1 | 5.405.494 | **5.405.3250** |
| 1000 | 1 | 5.405.495 | **5.405.3390** |

**Calibrated capillaries**
for use with WITOPETTOR Fix and Variable, with colour code. Fire polished. Accuracy of +/-0.5%. Pack of 100 pieces

***Capillaires calibrés***
*pour utilisation avec WITOPETTOR Fixe ou Variable, avec code-couleur. Précision +/-0.5%. Boite de 100*

| Volume<br>*Volume*<br>µl | Colour code<br>*Code-couleur* | Order No.<br>*N° de code* |
|---|---|---|
| 1 - 5 | | 5.405.401 |
| 10 | | 5.405.410 |
| 20 | | 5.405.420 |
| 25 | x 2 | 5.405.425 |
| 50 | | 5.405.450 |
| 100 | | 5.405.490 |
| 200 | | 5.405.492 |
| 100 / 200 | | 5.405.493 |
| 250 | | 5.405.494 |
| 1000 | plastic tip<br>*embout en plastique* | 5.405.495 |

**Micropipette stands**

***Portoirs pour micropipettes***

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| For WITOPET EP, with 5 places<br>*Portoir pour 5 micropipettes WITOPET EP* | 5.406.105 |
| For WITOPET, suitable for all sizes, for 7 pipettors<br>*Portoir pour 7 micropipettes WITOPET* | 5.406.107 |
| Carussel for up to 6 WITOPET pipettors<br>*Caroussel pour 6 micropipettes WITOPET* | 5.406.109 |
| Universal stand for up to 3 pipettors<br>*Portoir universel pour 3 micropipettes* | 5.406.203 |
| Labrack for up to 5 pipettors<br>*Portoir universel pour 5 micropipettes* | 5.406.205 |
| Universal stand for up to 8 pipettors<br>*Portoir universel pour 8 micropipettes* | 5.406.207 |


5.406.105


5.406.107


5.406.205

5.406.***

## Microliter-pipette tips
## *Pointes pour micropipettes*

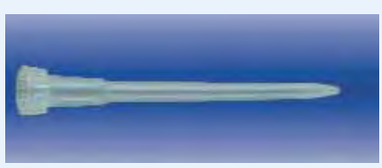
**Microliter-pipette Tips 0.1 to 200µl** made of high quality polypropylene (PP)

***Pointes pour micropipettes de 0.1 à 200 µl*** *en polypropylène (PP) de haute qualité*

**Crystal-E Tips (0.1-10µl),** universal long tips available in bags, in racks sterile or not sterile or in Multibox Refill.
For use with Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman – Labmate and Socorex

***Pointes Cristal-E (0.1-10µl),*** *pointes longues universelles en sachet, sur rack stérile ou non-stérile ou dans boite Multibox rechargeable. Compatibles avec les micropipettes de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman – Labmate - Socorex*

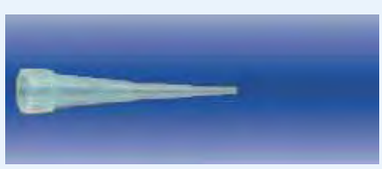
| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | 5.407.001 |
| Rack / *Portoir* | 10 x 96 | 960 | 5.407.002 |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | 5.407.003 |
| Multibox / *Multibox* | 18 x 192 | 3456 | 5.407.004 |
| Multitray / *Multiportoir* | 2 x 96 | 192 | 5.407.005 |


5.407.00*

**Crystal-G Tips (0.1-10µl),** short pointed tips available in bags, in racks sterile or not sterile or in Multibox Refill.
For use with Micropipettes from: Gilson Pipetman and Labmate

***Pointes Crystal-G (0.1-10µl),*** *courtes pointues, en sachet, sur rack stérile ou non-stérile ou dans boite Multibox rechargeable.*
*Compatibles avec les micropipettes de: Gilson Pipetman et Labmate*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | 5.407.011 |
| Rack / *Portoir* | 10 x 96 | 960 | 5.407.012 |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | 5.407.013 |
| Multibox / *Multibox* | 18 x 192 | 3456 | 5.407.014 |
| Multitray / *Multiportoir* | 10 x 96 | 960 | 5.407.015 |


5.407.01*



**5.407.02***

**XL Tips colourless (0.1-10µl),** long pointed tips available in bags and in racks sterile or not sterile. For use with Micropipettes from: Gilson Pipetman and Labmate

***Pointes natures XL (0.1-10µl),*** *pointes longues pointues en sachet, sur rack stérile ou non-stérile. Compatibles avec les micropipettes de: Gilson Pipetman et Labmate*

| Packing / *Emballage* | | Quantity per pack / *Coditionnement* | Order No. / *N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.021** |
| Rack / *Portoir* | 10 x 96 | 960 | **5.407.022** |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | **5.407.023** |
| Multitray / *Multiportoir* | 10 x 96 | 960 | **5.407.024** |



**5.407.03***

**Yellow Tips (1-200 µl),** universal long tips available in bags, in racks sterile or not sterile or in Multibox Refill.
For use with Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman – Labmate and Socorex

***Pointes jaunes (1-200µl),*** *pointes longues universelles en sachet stérile ou non-stérile , sur rack stérile ou non-stérile ou dans boite Multibox rechargeable.*
*Compatibles avec les micropipettes de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman – Labmate - Socorex*

| Packing / *Emballage* | | Quantity per pack / *Coditionnement* | Order No. / *N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.031** |
| Sterile bag / *Sachet stérile* | 1 x 100 | 100 | **5.407.032** |
| Rack / *Portoir* | 10 x 96 | 960 | **5.407.033** |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | **5.407.034** |
| Multibox / *Multibox* | 18 x 192 | 3456 | **5.407.035** |
| Multitray / *Multiportoir* | 10 x 96 | 960 | **5.407.036** |



**5.407.04***

**Yellow Tips - G (1-200 µl),** available in bags, in racks sterile or not sterile or in Multibox Refill. For use with Micropipettes from: Gilson Pipetman and Labmate

***Pointes Jaunes- G (1-200µl),*** *en sachet, sur rack stérile ou non-stérile ou dans boite Multibox rechargeable. Compatibles avec les micropipettes de: Gilson Pipetman et Labmate*

| Packing / *Emballage* | | Quantity per pack / *Coditionnement* | Order No. / *N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.041** |
| Rack / *Portoir* | 10 x 96 | 960 | **5.407.042** |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | **5.407.043** |
| Multibox / *Multibox* | 18 x 192 | 3456 | **5.407.044** |
| Multitray / *Multiportoir* | 10 x 96 | 960 | **5.407.045** |



**5.407.05***

**Colourless Tips (1-200µl),** universal tips available in bags, in racks sterile or not sterile or in Multibox Refill. For use with Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman – Labmate and Socorex

***Pointes natures (1-200µl),*** *universelles en sachet, sur rack stérile ou non-stérile ou dans boite Multibox rechargeable. Compatibles avec les micropipettes de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman – Labmate - Socorex*

| Packing / *Emballage* | | Quantity per pack / *Coditionnement* | Order No. / *N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.051** |
| Rack / *Portoir* | 10 x 96 | 960 | **5.407.052** |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | **5.407.053** |
| Multibox / *Multibox* | 18 x 192 | 3456 | **5.407.054** |
| Multitray / *Multiportoir* | 10 x 96 | 960 | **5.407.055** |



**5.407.06***

**Colourless Tips (1-200µl),** available in bags, in racks sterile or not sterile or in Multibox Refill. For use with Micropipettes from: Labmate and Socorex

***Pointes natures (1-200µl),*** *en sachet, sur rack stérile ou non-stérile ou dans boite Multibox rechargeable. Compatibles avec les micropipettes de : Labmate et Socorex*

| Packing / *Emballage* | | Quantity per pack / *Coditionnement* | Order No. / *N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.061** |
| Rack / *Portoir* | 10 x 96 | 960 | **5.407.062** |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | **5.407.063** |
| Multibox / *Multibox* | 18 x 192 | 3456 | **5.407.064** |
| Multitray / *Multiportoir* | 10 x 96 | 960 | **5.407.045** |

**Microliter-pipette Tips 1 to 1000µl** made of high quality polypropylene (PP)

***Pointes pour micropipettes de 1 à 1000 µl*** *en polypropylène (PP) de haute qualité*

**Multi-Channel Tips (1-250µl),** universal graduated tips available in bags, in racks sterile or not sterile or in Multibox Refill. For use with Multi-Channel Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman and Labmate

***Pointes Multi-canaux (1-250µl),*** *pointes universelles graduées en sachet, sur rack stérile ou non-stérile ou dans boite Multibox rechargeable. Compatibles avec les micropipettes à multicanaux de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman and Labmate*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.071** |
| Rack / *Portoir* | 10 x 96 | 960 | **5.407.072** |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | **5.407.073** |
| Multibox / *Multibox* | 18 x 192 | 3456 | **5.407.074** |
| Multitray / *Multiportoir* | 10 x 96 | 960 | **5.407.075** |



**5.407.07***

**Multi-Channel Tips (1-300µl),** colourless universal graduated tips available in bags, in racks sterile or not sterile or in Multibox Refill. For use with Multi-Channel Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman and Socorex

***Pointes Multi-canaux (1-300µl),*** *pointes universelles graduées en sachet ou sur rack stérile ou non-stérile. Compatibles avec les micropipettes à multicanaux de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman and Socorex*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.081** |
| Rack / *Portoir* | 10 x 96 | 960 | **5.407.082** |
| Sterile rack / *Portoir stérile* | 10 x 96 | 960 | **5.407.083** |



**5.407.08***

**Blue Tips (200-1000 µl),** universal tips available in bags, in racks sterile or not sterile or in Multibox Refill. For use with Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman – Labmate and Socorex

***Pointes bleues (200-1000µl),*** *pointes universelles en sachet stérile ou non-stérile , sur rack stérile ou non-stérile ou dans boite Multibox rechargeable. Compatibles avec les micropipettes de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman – Labmate - Socorex*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.091** |
| Sterile bag / *Sachet stérile* | 1 x 100 | 100 | **5.407.092** |
| Rack / *Portoir* | 8 x140 | 1120 | **5.407.093** |
| Sterile rack / *Portoir stérile* | 8 x 140 | 1120 | **5.407.094** |
| Multibox / *Multibox* | 18 x 60 | 1080 | **5.407.095** |
| Multitray / *Multiportoir* | 2 x 60 | 120 | **5.407.096** |



**5.407.09***

**Colourless Tips (200-1000 µl),** universal tips available in bags, in racks sterile or not sterile or in Multibox Refill. For use with Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman – Labmate and Socorex

***Pointes natures (200-1000µl),*** *pointes universelles en sachet stérile ou non-stérile , sur rack stérile ou non-stérile ou dans boite Multibox rechargeable. Compatibles avec les micropipettes de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman – Labmate - Socorex*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 1000 | 1000 | **5.407.101** |
| Rack / *Portoir* | 8 x 140 | 1120 | **5.407.102** |
| Sterile rack / *Portoir stérile* | 8 x 140 | 1120 | **5.407.103** |
| Multibox / *Multibox* | 18 x 60 | 1080 | **5.407.104** |
| Multitray / *Multiportoir* | 2 x 60 | 120 | **5.407.105** |



**5.407.10***

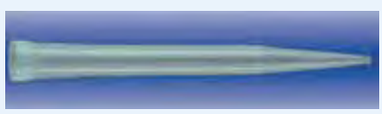
**Microliter-pipette Tips 200 to 5000µl** made of high quality polypropylene (PP)

***Pointes pour micropipettes de 200 à 5000 µl*** *en polypropylène (PP) de haute qualité*

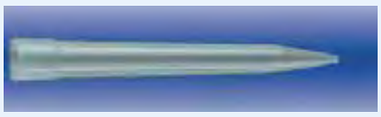
**Colourless Tips (500-2500 µl),** tips available in bags. For use with Micropipettes from: Eppendorf Research or Reference and Socorex

***Pointes natures (500-2500µl),*** *en sachet. Compatibles avec les micropipettes de: Eppendorf Research ou Reference et Socorex*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 250 | 250 | **5.407.111** |



**5.407.111**

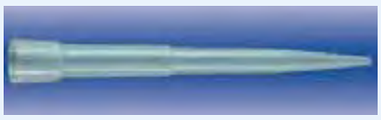


**5.407.12***

**Colourless Tips (1000-5000 µl),** tips available in bags or in racks. For use with Micropipettes from: Gilson Pipetman – Labmate - Socorex

***Pointes natures (1000-5000µl),*** *en sachet ou en rack. Compatibles avec les micropipettes de: Gilson Pipetman – Labmate - Socorex*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 250 | 250 | **5.407.121** |
| Rack / *Portoir* | 10 x 50 | 500 | **5.407.122** |



**5.407.13***

**Colourless Tips (1000-5000 µl),** tips available in bags or in racks. For use with Micropipettes from:
Witeg - Biohit - Brand Transferette

***Pointes natures (1000-5000µl),*** *en sachet ou en rack. Compatibles avec les micropipettes de: Witeg - Biohit - Brand Transferette*

| Packing<br>*Emballage* | | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| Bag / *Sachet* | 1 x 300 | 300 | **5.407.131** |
| Rack / *Portoir* | 10 x 50 | 500 | **5.407.132** |



**5.407.151**
**-**
**5.407.161**

**Multibox plus,** made of polypropylene (PP) suitable for all the multitrays, with function lid

***Boites Multibox plus,*** *en polypropylène (PP) pour tous les Racks Multitrays, avec couvercle multifonctions (sur glissières, rabattable ou à enlèvement intégral)*

| | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|
| | 1 | **5.407.151** |

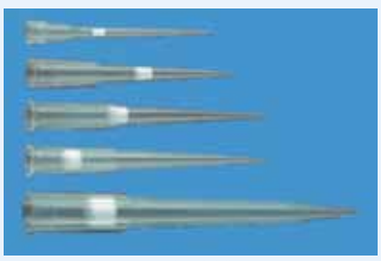
**Multibox plus,** made of polycarbonat (PC) suitable for all the multitrays, with function lid

***Boites Multibox plus,*** *en polycarbonate (PC) pour tous les Racks Multitrays, avec couvercle multifonctions (sur glissières, rabattable ou à enlèvement intégral)*

| | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|
| | 1 | **5.407.161** |

**Microliter-pipette Filter Tips Aeroject 10 to 1000µl,** made of ultra-hydrophobic PE-HD

***Pointes à filtre pour micropipettes Aeroject de 10 à 1000 µl,*** *en polyéthylème ultra-hydrophobe*



**5.407.20***

**Microliter-pipette Filter Tips Aeroject (10-1000µl),** universal, certified RNase and DNase-free and sterile packed in plastic racks with hinge lid. For use with Micropipettes from: Witeg – Biohit – Brand Transferpette – Eppendorf Research or Reference – Finn/Labsystems – Gilson Pipetman – Labmate and Socorex

***Pointes à filtre Aeroject (10-1000µl),*** *universelle, stériles, certifiées sans contaminant Rnase et Dnase à filtre hydrophobe et autoclavable livrées dans un rack en plastique à charnière. Compatibles avec les micropipettes de: Witeg – Biohit – Brand Transferpette – Eppendorf Research ou Reference – Finn/Labsystems – Gilson Pipetman – Labmate - Socorex*

| Volume<br>µl | Packing<br>*Emballage* | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | Rack 10 x 96 | 960 | **5.407.201** |
| 20 | Rack 10 x 96 | 960 | **5.407.202** |
| 100 | Rack 10 x 96 | 960 | **5.407.203** |
| 200 | Rack 10 x 96 | 960 | **5.407.204** |
| 1000 | Rack 8 x 60 | 480 | **5.407.205** |

**RNase surface decontaminating agent,** in sprayer

***Décontaminant de surface RNase,*** *élimine complétement les nucleases RNases ou DNases*

| Description | Quantity per pack<br>*Coditionnement* | Order No.<br>*N° de code* |
|---|---|---|
| RNase, 500 ml bottle with atomizer<br>*Décontaminant, atomiseur de 500 ml* | 1 | **5.407.301** |



**5.416.000**

**Tray for reaction vessels,** made of polypropylene (PP), grey, numbered from 1 - 20, for 20 reaction vessels

***Portoir pour micro-tubes,*** *en polypropylène (PP) numéro 1 - 20, pour 20 micro-tubes de 1.5 ml*

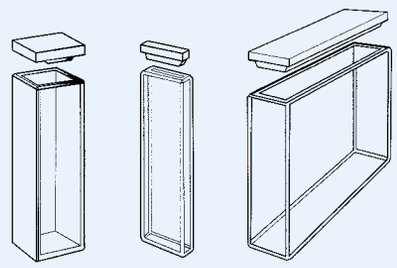
| | Order No.<br>*N° de code* |
|---|---|
| | **5.416.000** |

## Cells
## *Cuvettes*

**Macro standard rectangular cells**
made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows and PTFE-lid. Internal width 9.5 - 10 mm

***Cuvettes rectangulaires, type macro***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies et couvercle en téflon. Largeur intérieure 9.5 - 10 mm*

| Path length<br>*Trajet optique*<br>mm | Dimensions<br>*Dimensions*<br>mm | Capacity<br>*Capacité*<br>µl | Optical glass<br>*Verre optique*<br>334-2500 nm | UV Silica glass<br>*Quartz UV*<br>220-2500 nm | IR Silica glass<br>*Quartz IR*<br>220-3800 nm |
|---|---|---|---|---|---|
| 1 | 45 x 12.5 x 3.5 | 350 | **5.421.001** | **5.421.011** | **5.421.021** |
| 2 | 45 x 12.5 x 4.5 | 700 | **5.421.002** | **5.421.012** | **5.421.022** |
| 5 | 45 x 12.5 x 7.5 | 1750 | **5.421.003** | **5.421.013** | **5.421.023** |
| 10 | 45 x 12.5 x 12.5 | 3500 | **5.421.004** | **5.421.014** | **5.421.024** |
| 20 | 45 x 12.5 x 22.5 | 7000 | **5.421.005** | **5.421.015** | **5.421.025** |
| 40 | 45 x 12.5 x 42.5 | 14000 | **5.421.006** | **5.421.016** | **5.421.026** |
| 50 | 45 x 12.5 x 52.5 | 17500 | **5.421.007** | **5.421.017** | **5.421.027** |
| 100 | 45 x 12.5 x 102.5 | 35000 | **5.421.008** | **5.421.018** | **5.421.028** |

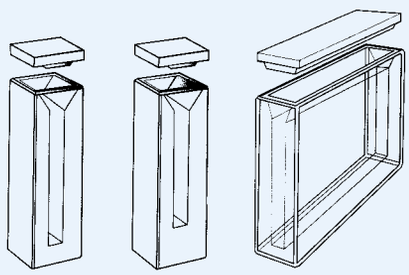


**5.421.*****

**Semi-micro standard rectangular cells**
made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows and PTFE-lid. Internal width 4 mm

***Cuvettes rectangulaires semi-micro***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies et couvercle en téflon. Largeur inférieure 4 mm*

| Path length<br>*Trajet optique*<br>mm | Dimensions<br>*Dimensions*<br>mm | Capacity<br>*Capacité*<br>µl | Optical glass<br>*Verre optique*<br>334-2500 nm | UV Silica glass<br>*Quartz UV*<br>220-2500 nm | IR Silica glass<br>*Quartz IR*<br>220-3800 nm |
|---|---|---|---|---|---|
| 5 | 45 x 12.5 x 7.5 | 700 | **5.421.051** | **5.421.061** | **5.421.071** |
| 10 | 45 x 12.5 x 12.5 | 1400 | **5.421.052** | **5.421.062** | **5.421.072** |
| 20 | 45 x 12.5 x 22.5 | 2800 | **5.421.053** | **5.421.063** | **5.421.073** |
| 40 | 45 x 12.5 x 42.5 | 5600 | **5.421.054** | **5.421.064** | **5.421.074** |
| 50 | 45 x 12.5 x 52.5 | 7000 | **5.421.055** | **5.421.065** | **5.421.075** |

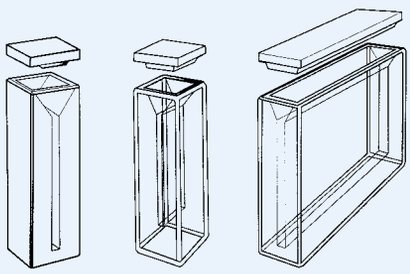


**5.421.05***

**Micro standard rectangular cells**
made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows and PTFE-lid. Internal width 4 mm

***Micro cuvettes rectangulaires***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies et couvercle en téflon. Largeur inférieure 4 mm*

| Path length<br>*Trajet optique*<br>mm | Dimensions<br>*Dimensions*<br>mm | Capacity<br>*Capacité*<br>µl | Optical glass<br>*Verre optique*<br>334-2500 nm | UV Silica glass<br>*Quartz UV*<br>220-2500 nm | IR Silica glass<br>*Quartz IR*<br>220-3800 nm |
|---|---|---|---|---|---|
| 5 | 45 x 12.5 x 7.5 | 350 | **5.421.101** | **5.421.111** | **5.421.121** |
| 10 | 45 x 12.5 x 12.5 | 700 | **5.421.102** | **5.421.112** | **5.421.122** |
| 20 | 45 x 12.5 x 22.5 | 1400 | **5.421.103** | **5.421.113** | **5.421.123** |
| 40 | 45 x 12.5 x 42.5 | 2800 | **5.421.104** | **5.421.114** | **5.421.124** |
| 50 | 45 x 12.5 x 52.5 | 3500 | **5.421.105** | **5.421.115** | **5.421.125** |

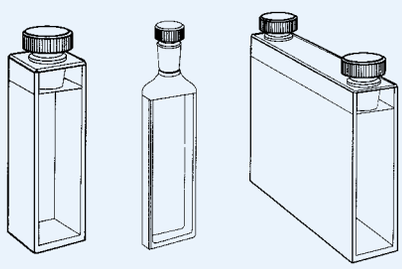


**5.421.1****

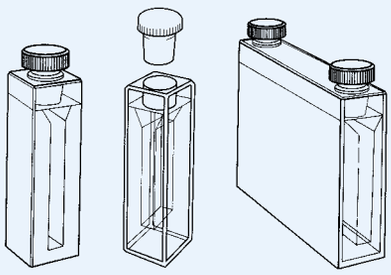
**Macro standard rectangular cells with one or two stoppers (40-50-100mm)**
made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows and PTFE-lid. Internal width 9.5 - 10 mm

***Macro-Cuvettes rectangulaires avec un ou deux bouchons (40-50-100mm)***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies et couvercle en téflon. Largeur intérieure 9.5 - 10 mm*

| Path length<br>*Trajet optique*<br>mm | Dimensions<br>*Dimensions*<br>mm | Capacity<br>*Capacité*<br>µl | Optical glass<br>*Verre optique*<br>334-2500 nm | UV Silica glass<br>*Quartz UV*<br>220-2500 nm | IR Silica glass<br>*Quartz IR*<br>220-3800 nm |
|---|---|---|---|---|---|
| 1 | 45 x 12.5 x 3.5 | 350 | **5.421.151** | **5.421.161** | **5.421.171** |
| 2 | 45 x 12.5 x 4.5 | 700 | **5.421.152** | **5.421.162** | **5.421.172** |
| 5 | 45 x 12.5 x 7.5 | 1750 | **5.421.153** | **5.421.163** | **5.421.173** |
| 10 | 45 x 12.5 x 12.5 | 3500 | **5.421.154** | **5.421.164** | **5.421.174** |
| 20 | 45 x 12.5 x 22.5 | 7000 | **5.421.155** | **5.421.165** | **5.421.175** |
| 40 | 45 x 12.5 x 42.5<br>(2 stoppers) | 14000 | **5.421.156** | **5.421.016** | **5.421.176** |
| 50 | 45 x 12.5 x 52.5<br>(2 stoppers) | 17500 | **5.421.157** | **5.421.167** | **5.421.177** |
| 100 | 45 x 12.5 x 102.5<br>(2 stoppers) | 35000 | **5.421.158** | **5.421.168** | **5.421.178** |



**5.421.15***

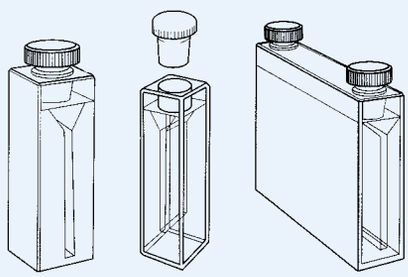


5.421.2**

**Semi-micro standard rectangular cells with one or two stoppers (40-50mm)**
made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows and PTFE-lid. Internal width 4 mm

***Cuvettes rectangulaires semi-micro***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies et couvercle en téflon. Largeur inférieure 4 mm*

| Path length *Trajet optique* mm | Dimensions *Dimensions* mm | Capacity *Capacité* µl | Optical glass *Verre optique* 334-2500 nm | UV Silica glass *Quartz UV* 220-2500 nm | IR Silica glass *Quartz IR* 220-3800 nm |
|---|---|---|---|---|---|
| 5 | 45 x 12.5 x 7.5 | 700 | **5.421.201** | **5.421.211** | **5.421.221** |
| 10 | 45 x 12.5 x 12.5 | 1400 | **5.421.202** | **5.421.212** | **5.421.222** |
| 20 | 45 x 12.5 x 22.5 | 2800 | **5.421.203** | **5.421.213** | **5.421.223** |
| 40 | 45 x 12.5 x 42.5 (2 stoppers) | 5600 | **5.421.204** | **5.421.214** | **5.421.224** |
| 50 | 45 x 12.5 x 52.5 (2 stoppers) | 7000 | **5.421.205** | **5.421.215** | **5.421.225** |



5.421.25*

**Micro standard rectangular cells with one or two stoppers (40-50mm)**
made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows and PTFE-lid. Internal width 4 mm

***Micro-cuvettes rectangulaires***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies et couvercle en téflon. Largeur inférieure 4 mm*

| Path length *Trajet optique* mm | Dimensions *Dimensions* mm | Capacity *Capacité* µl | Optical glass *Verre optique* 334-2500 nm | UV Silica glass *Quartz UV* 220-2500 nm | IR Silica glass *Quartz IR* 220-3800 nm |
|---|---|---|---|---|---|
| 5 | 45 x 12.5 x 7.5 | 700 | **5.421.251** | **5.421.261** | **5.421.271** |
| 10 | 45 x 12.5 x 12.5 | 1400 | **5.421.252** | **5.421.262** | **5.421.272** |
| 20 | 45 x 12.5 x 22.5 | 2800 | **5.421.253** | **5.421.263** | **5.421.273** |
| 40 | 45 x 12.5 x 42.5 (2 stoppers) | 5600 | **5.421.254** | **5.421.264** | **5.421.274** |
| 50 | 45 x 12.5 x 52.5 (2 stoppers) | 7000 | **5.421.255** | **5.421.265** | **5.421.275** |

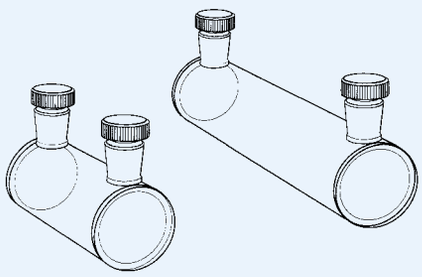


5.421.3**

**Cylindrical standard cells with one stopper**
made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows. Internal diameter 19 mm

***Cuvettes cylindriques à un bouchon***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies. Diamètre intérieur 19 mm*

| Path length *Trajet optique* mm | Dimensions *Dimensions* mm | Capacity *Capacité* µl | Optical glass *Verre optique* 334-2500 nm | UV Silica glass *Quartz UV* 220-2500 nm | IR Silica glass *Quartz IR* 220-3800 nm |
|---|---|---|---|---|---|
| 1 | 22 x 3.5 | 280 | **5.421.301** | **5.421.311** | **5.421.321** |
| 2 | 22 x 4.5 | 560 | **5.421.302** | **5.421.312** | **5.421.322** |
| 5 | 22 x 7.5 | 1400 | **5.421.303** | **5.421.313** | **5.421.323** |
| 10 | 22 x 12.5 | 2800 | **5.421.304** | **5.421.314** | **5.421.324** |
| 20 | 22 x 22.5 | 5600 | **5.421.305** | **5.421.315** | **5.421.325** |
| 50 | 22 x 52.5 | 14100 | **5.421.306** | **5.421.316** | **5.421.326** |
| 100 | 22 x 102.5 | 28200 | **5.421.307** | **5.421.317** | **5.421.327** |



5.421.35*

**Cylindrical standard cells with two stoppers,** made of optical glass or UV silica glass or IR-silica glass, with 2 polished windows. Internal diameter 19 mm

***Cuvettes cylindriques à 2 bouchons***
*en verre optique, en quartz ou en quartz-IR, à 2 faces polies. Diamètre intérieur 19 mm*

| Path length *Trajet optique* mm | Dimensions *Dimensions* mm | Capacity *Capacité* µl | Optical glass *Verre optique* 334-2500 nm | UV Silica glass *Quartz UV* 220-2500 nm | IR Silica glass *Quartz IR* 220-3800 nm |
|---|---|---|---|---|---|
| 50 | 22 x 52.5 | 14100 | **5.421.351** | **5.421.361** | **5.421.371** |
| 100 | 22 x 102.5 | 28200 | **5.421.352** | **5.421.362** | **5.421.372** |



5.421.4**

**Flow cells, standard and semi-micro**
made of optical glass or UV silica glass, with 2 polished windows, available with inlet/outlet tubes
(i.D 2 mm x o.D 4mm x 16 mm long)

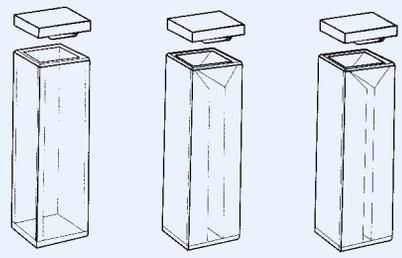
***Cuvettes à circulation, standard et semi-micro***
*en verre optique ou en quartz qualité UV, à 2 faces polies et raccords entrée/sortie pour tuyau*

| Path length *Trajet optique* mm | Dimensions *Dimensions* mm | Capacity *Capacité* µl | UV Silica glass *Quartz UV* 220-2500 nm | IR Silica glass *Quartz IR* 220-3800 nm |
|---|---|---|---|---|
| 10 | 48 x 12.5 x 12.5 | 3000 | **5.421.401** | **5.421.411** |
| 10 | 48 x 12.5 x 12.5 | 1800 | **5.421.402** | **5.421.412** |

**Fluorimeter macro standard rectangular cells,** made of optical glass or UV silica glass or IR-silica glass, with 4 polished windows and PTFE-lid.
Internal width 10 mm

***Cuvettes de fluorimétrie, type macro***
*en verre optique, en quartz ou en quartz-IR, à 4 faces polies et couvercle en téflon.*
*Largeur intérieure 10 mm*

| Path length<br>*Trajet optique*<br>mm | Dimensions<br>*Dimensions*<br>mm | Capacity<br>*Capacité*<br>µl | Optical glass<br>*Verre optique*<br>334-2500 nm | UV Silica glass<br>*Quartz UV*<br>220-2500 nm | IR Silica glass<br>*Quartz IR*<br>220-3800 nm |
|---|---|---|---|---|---|
| 5 | 45 x 12.5 x 7.5 | 1700 | **5.421.451** | **5.421.461** | **5.421.471** |
| 10 | 45 x 12.5 x 12.5 | 3500 | **5.421.452** | **5.421.462** | **5.421.472** |
| 20 | 45 x 12.5 x 22.5 | 7000 | **5.421.453** | **5.421.463** | **5.421.473** |
| 40 | 45 x 12.5 x 42.5 | 14000 | **5.421.454** | **5.421.464** | **5.421.474** |
| 50 | 45 x 12.5 x 52.5 | 17500 | **5.421.455** | **5.421.465** | **5.421.475** |
| 100 | 45 x 12.5 x 102.5 | 35000 | **5.421.456** | **5.421.466** | **5.421.476** |

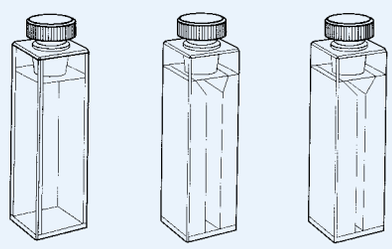


**5.421.45***

**Fluorimeter macro rectangular cells with one or two stoppers (40-50mm)**
made of optical glass or UV silica glass or IR-silica glass, with 4 polished windows.
Internal width 9.5 - 10 mm

***Cuvettes rectangulaires de fluorimétrie à un ou deux bouchons (40-50mm), type macro***
*en verre optique, en quartz ou en quartz-IR, à 4 faces polies. Largeur intérieure 9.5 - 10 mm*

| Path length<br>*Trajet optique*<br>mm | Dimensions<br>*Dimensions*<br>mm | Capacity<br>*Capacité*<br>µl | Optical glass<br>*Verre optique*<br>334-2500 nm | UV Silica glass<br>*Quartz UV*<br>220-2500 nm | IR Silica glass<br>*Quartz IR*<br>220-3800 nm |
|---|---|---|---|---|---|
| 5 | 45 x 12.5 x 7.5 | 1700 | **5.421.501** | **5.421.511** | **5.421.521** |
| 10 | 45 x 12.5 x 12.5 | 3500 | **5.421.502** | **5.421.512** | **5.421.522** |
| 20 | 45 x 12.5 x 22.5 | 7000 | **5.421.503** | **5.421.513** | **5.421.523** |
| 40 | 45 x 12.5 x 42.5<br>(2 stoppers) | 14000 | **5.421.504** | **5.421.514** | **5.421.524** |
| 50 | 45 x 12.5 x 52.5<br>(2 stoppers) | 17500 | **5.421.505** | **5.421.515** | **5.421.525** |



**5.421.5****

**Rectangular photometric cells,** made of clear Polystyrene (PS) pathlength 10 mm, Applicable wavelength 320 - 400nm

***Cuvettes photométriques à usage unique rectangulaires,*** *en polystryrène (PS), 10 mm de trajet optique, gamme de longueur d'ondes 320 - 400nm*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Semi macro | 45 x 12.5 x 12.5 | 1.6 | 1000 | **5.421.601** |
| Macro | 45 x 12.5 x 12.5 | 4.0 | 1000 | **5.421.602** |

**Photometric cells**
disposable made of clear glass Polystyrene (PS) with new optimized form and small wall thickness provide increased heat transfer during the measurements. Applicable wavelength 340 - 900 nm. Path length 10 mm. Outer dimensions 45 x 10 x 10 mm Excellent optical transmission range and very low variation of extinction values. Supplied in practical styrofoam racks each with 100 cells

***Cuvettes photométriques***
*en polystyrène (PS) optique, à usage unique avec nouvelle forme optimisée et paroie de petite épaisseur qui augmente le tranfert de chaleur durant les mesure. Gamme de longueur d'ondes 340-900 nm. Trajet optique 10 mm. Dimensions extérieures 45x10x10 mm Livrées dans un rack en styropore avec 100 cuvettes*



**5.421.61***

| Type<br>*Type* | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Semi macro | 1.6 | 10 x 100 | **5.421.611** |
| Macro | 4.0 | 10 x 100 | **5.421.612** |

**UV special plastic cells**
disposable, for photometric measurements even in the UV-range due to the special plastic material. Applicable wavelength 220 - 900 nm. Path length 10 mm. Outer dimensions 45 x 10 x 10 mm Excellent optical transmission range and very low variation of extinction values. Supplied in practical styrofoam racks each with 100 cells

***Cuvettes UV en plastique spécial***
*à usage unique pour mesures photométriques même dans la région UV grâce au matériau spécial utilisé. Gamme de longueur d'ondes 220 - 900 nm. Trajet optique 10 mm. Dimensions extérieures 45 x 10 x 10 mm Livrées dans un rack en styropore avec 100 cuvettes*



**5.421.62***

| Type<br>*Type* | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Semi macro | 1.6 | 10 x 100 | **5.421.621** |
| Macro | 4.0 | 10 x 100 | **5.421.622** |



5.421.63*

**Photometric cells with 2 optical windows,** disposable, available in three versions: glass clear Polystyrene (PS) or of Polymethylmethracrylat (PMMA) or of resistant material against polar solvents. Applicable wavelength 340 - 900 nm. Path length 10 mm. Outer dimensions 45 x 10 x 10 mm Supplied in practical styrofoam racks each with 100 cells

***Cuvettes photométriques à 2 faces polies*** *à usage unique, disponibles en 3 versions en polystyrène (PS) en PMMA ou en matière résistante aux solvants polaires. Gamme de longueur d'ondes 340 - 900 nm. Trajet optique 10 mm. Dimensions extérieures 45 x 10 x 10 mm Livrées dans un rack en styropore avec 100 cuvettes*

| Type<br>*Type* | Material<br>*Matèrie* | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Semi macro | PS | 1.6 | 10 x 100 | **5.421.631** |
| Semi macro | PMMA | 1.6 | 10 x 100 | **5.421.632** |
| Semi macro | Solvent resistant | 1.6 | 1 x 100 | **5.421.633** |
| Macro | PS | 4.0 | 10 x 100 | **5.421.634** |
| Macro | PMMA | 4.0 | 10 x 100 | **5.421.635** |
| Macro | Solvent resistant | 4.0 | 1 x 100 | **5.421.636** |



5.421.710



5.421.720

**Cleaning liquid agent concentrated** for optical glass or silica glass cells Supplied in 1 liter plastic bottle

***Agent liquide concentré de nettoyage*** *pour cuvettes en verre optique ou en quartz, livré dans un flacon en plastique de 1 litre*

| | Order No.<br>*N° de code* |
|---|---|
| | **5.421.710** |

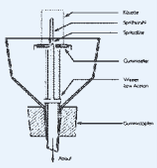
**Plastic holder,** for cleaning of 4 cells with 10 mm path length

***Support en plastique,*** *pour le nettoyage de 4 cuvettes de 10 mm trajet optique*

| | Order No.<br>*N° de code* |
|---|---|
| | **5.421.720** |



5.421.73*



**Vakuwash,** a simple and efficient system for washing and drying spectrophotometric cells or pycnometers in a very short time, for use with a filtering vacuum flask and a small vaccum pump

***Vakuwash,*** *système simple et efficace pour le lavage et le séchage rapide de cuvettes photométriques ou de pycnomètres, pour utilisation avec une fiole de filtration sous vide et une pompe à vide*

| Description | Order No.<br>*N° de code* |
|---|---|
| Vacuwash system, only / *Système de lavage Vakuwash, seul* | **5.421.730** |
| Rubber stopper with hole for filtering flask<br>*Bouchon perforé en caoutchouc pour fiole de filtration* | **5.421.731** |
| Special device for washing of pycnometers<br>*Dispositif special pour le lavage de pycnomètres* | **5.421.732** |
| Vacuum filtering flask, 500 ml, made of borosilicate glass<br>*Fiole de filtration sous vide en verre borosilicaté, de 500 ml* | **5.421.733** |
| Vacuum rubber tubing, 2 meters / *Tuyau à vide en caoutchouc de 2 mètres* | **5.421.734** |



5.421.74*

**Storage boxes for spectrophotometric cells,** made of plastic with lid

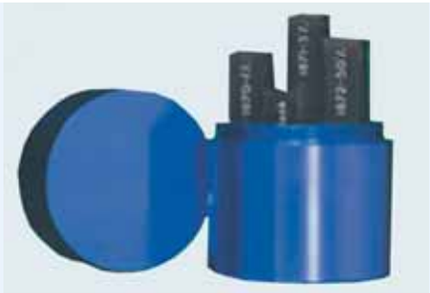
***Boites de stockage*** *en plastique pour cuvettes spectrophotométriques, avec couvercle*

| | Order No.<br>*N° de code* |
|---|---|
| Box for 16 cells with 10 mm pathlength and up to 55 mm height<br>*Boite pour 16 cuvettes de 10 mm T.O et jusqu'à 55 mm de haut* | **5.421.740** |
| Box for 8 cells with 10 mm pathlength and for 4 cells with 20 mm pathlength and up to 55 mm height<br>*Boite pour 8 cuvettes de 10 mm T.O et pour 4 cuvettes de 20 mm T.O et jusqu'à 55 mm de haut* | **5.421.741** |

**Set of 4 certified calibration filters**
for periodic check of Absorbance and wavelength accuracy in Visible range, consisting of one holmium glass filter, one of each 10% T, 30% T, 57% T and blank holder, acc. to UKAS/ISO17025 ISO Guide 34 traceable to NIST

***Coffret de 4 filtres de calibration certifiés***
*pour la vérification périodique dans le domaine visible de l'absorbance et de la précison de la longueur d'onde composé d'un filtre holmium, de 3 filtres à 10%T, 30%T et 57%T et d'un porte-filtre vide. selon UKAS/ISO17025 ISO Guide 34 traceable to NIST*

| Order No.<br>*N° de code* |
|---|
| **5.421.750** |



**5.421.750**

**Set of 7 liquid-filled calibration cells**
certified, E.P.5.2 Phamacopoeia compliance, for spectrophotometric Absorbance, Wavelength, Stray light, Resolution in the range of 200 nm up to 650 nm

***Coffret de 7 cuves*** *à étalons liquides de calibration certifiés répondant à la Pharmacopée E.P.5.2, pour la vérification périodique de l'absorbance, longueur d'onde, lumière parasite, résolution dans une gamme de longueur d'ondes comprise entre 200 nm et 650 nm*

| Order No.<br>*N° de code* |
|---|
| **5.421.760** |



**5.421.760**

**Disposable square micro cuvets, made of optically clear Polystyrene (PS)**
12.5 x 12.5 x 45 mm, **Light path:** 10 mm ± 0.05 mm, **Transmittance:**
- 90 % 400 to 800 nm spectral range
**absorbance:** ± 1 %. Fits any standard spectrophotometric cuvet holder.
(Use stopper No 5.423.000).
Packed dustfree in styrofoam box.

***Micro-cuvettes de spectrophotométrie à usage unique*** *en polystyrène optique de 12.5 x 12.5 x4 5 mm. Trajet optique: 10 mm +/- 0.05 mm, echelle spectrale 400 à 800 nm*

| Type<br>*Type* | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Semi micro low form<br>*Version semi-micro forme basse* | 1.5 | 100 | **5.422.101** |
| Semi micro talle form<br>*Version semi-micro forme haute* | 2.5 | 100 | **5.422.102** |
| Standard tall form<br>*Version standard forme haute* | 4.5 | 100 | **5.424.101** |
| 4 optical windows<br>*Version à 4 fenêtres optiques* | 4.5 | 100 | **5.424.102** |



**Lid for square micro-cuvets**
with 10 x 10mm, made of polyethylen (PE)

***Capuchon pour micro-cuvettes*** *de 10 x 10mm, en polyéthylène (PE)*

| Standard pack<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|
| 5000 | **5.423.000** |



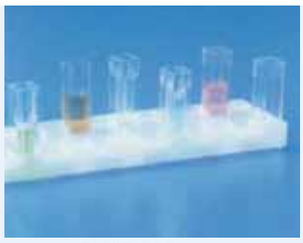
**5.423.000**

**Disposable square micro cuvets,** made of optically clear PMMA, 12.5 x 12.5 x 45 mm
Light path: 10 mm ± 0.05 mm
Transmittance: - 90 % 400 to 800 nm spectral range, absorbance: ± 1 %.
Fits any standard spectrophotometric cuvet holder. (Use stopper No 5.423.000).
Packed dustfree in styropore box

***Micro-cuvettes de spectrophotométrie*** *à usage unique en PMMA optique de 12.5 x 12.5 x 45 mm. Trajet optique: 10 mm +/- 0.05 mm Echelle spectrale 400 à 800nm*

| Type<br>*Type* | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Semi micro tall form<br>*Version semi-micro forme haute* | 1.5 | 100 | **5.422.001** |
| Semi micro low form<br>*Version semi-micro forme basse* | 2.5 | 100 | **5.422.202** |
| Standard<br>*Version standard forme haute* | 4.5 | 100 | **5.424.001** |
| 4 optical windows<br>*Version à 4 fenêtres optiques* | 4.5 | 100 | **5.424.202** |





5.425.000

**Photometric cell holder,** made of polyethylene, can accomodate 16 cuvettes of 10 x 10mm vertically for preparation work or horizontally for storage. Dimensions: 170 x 50mm

***Portoir pour 16 cuvettes photométriques*** *de 10 x 10mm, en polyéthylène, logement vertical pour travaux de préparation ou horinzontal pour le stockage. Dimensions: 170 x 50mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **5.425.000** |



**Disposable round cuvets** made of optically clear, Polystyrene (PS), to use for LKB-Enzymatic tests, fit, packed dustfree in styropore box

***Cuvettes circulaires,*** *spécifiques pour tests enzymatiques LKB, en polystyrène à usage unique*

| Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 4.0 | 100 | **5.426.000** |

**Cuvettes (for autoanalysers)** for Coulter ZF6-systems, made of Polystyrene (PS)

***Cuvettes pour autoanalyseurs Coulter ZF6,*** *en Polystyrène (PS)*

| Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 25.0 | 150 | **5.428.000** |

**Cuvettes for autoanalysers (Technicon),** made of Polystyrene (PS)

***Cuvettes pour autoanalyseurs Technicon,*** *en Polystyrène (PS)*

| Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 2.0 | 1000 | **5.430.000** |
| 1.5 | 1000 | **5.430.015** |
| 3.0 | 1000 | **5.430.030** |

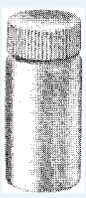


5.432.***

**Disposable flame photometer vials, (Electrolyt-vial),** made of Polystyrene (PS), **clear glass,** for flame photometers, dustfree packed in plastic bags, with snap-on-lid.

***Godets à électrolyte,*** *pour photomètre à flamme, en Polystyrène (PS), à usage unique*

| Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 2.0 | 1000 | **5.432.000** |



5.436.***
-
5.438.***

**Scintillation vials,** made of Polyethylene (PE), with high-density screw-cap. Dustfree packed in plastic bag.

***Flacons à scintillation,*** *en Polyéthylène (PE), avec bouchon à vis*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| **For all standard scintillation counting equipment** (Packard, Beckmann, KONTRON etc.)<br>*Pour tous les compteurs à scintillation (Packard, Beckman, Kontron etc...)* | | | |
| 30.0 | 28 x 60 | 1000 | **5.436.000** |
| **Insert for scintillation vials to reduce solvents capacity**<br>*Réducteurs de solvants pour flacons à scintillation* | | | |
| 6.0 | 15 x 57 | 2000 | **5.438.000** |
| 17.0 | 22 x 65 | | **5.438.017** |

**Scintillation tubes,** with special leakproof cap for use with automatic analyzers, made of Low-Density Polyethylene (PE-LD)

***Tubes pour scintillation,*** *en Polyéthylène (PE-BD), avec bouchon spécial étanche*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 28 x 60 | 2000 | **5.439.000** |
| 20 | 15 x 57 | 1000 | **5.439.100** |
| **Accessories /** *Accessoires* | | | |
| Caps for Order No. 5.439.000 | | 1000 | **5.439.001** |
| Caps for Order No. 5.439.100 | | 1000 | **5.439.101** |



**5.439.*****

**Test tubes,** made of clear Polystyrene (PS) or of translucent polyproplylen (PP)

***Tubes à essais,*** *en polystyrène (PS) ou en polypropylène (PP) translucide*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Material<br>*Matière* | Bottom<br>*Fond* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 4.0 | 11 x 70 | PS | round / *rond* | 1000 | **5.449.001** |
| 4.0 | 12 x 55 | PS | round / *rond* | 1000 | **5.449.002** |
| 5.0 | 12 x 75 | PS | round / *rond* | 1000 | **5.449.003** |
| 5.0 | 12 x 75 | PP | round / *rond* | 1000 | **5.449.004** |
| 4.5 | 12 x 75 | PS | conical / *conique* | 1000 | **5.449.005** |
| 12.0 | 16 x 100 | PS | round / *rond* | 1000 | **5.449.006** |
| 12.0 | 16 x 100 | PP | round / *rond* | 1000 | **5.449.007** |
| 12.0 | 17 x 103 | PS | round /*rond* | 1000 | **5.449.008** |
| 12.0 | 17 x 103 | PP | conical / *conique* | 1000 | **5.449.009** |
| 12.0 | 18 x 115 | PS | conical / *conique* | 1000 | **5.449.010** |
| 12.0 | 18 x 115 | PS | round / *rond* | 1000 | **5.449.011** |
| 20.0 | 22 x 65 | PS | flat / *plat* | 1000 | **5.449.012** |



**5.449.*****

**Coagulation tubes (culture tubes),** made of Polystyrene (PS), optical clear, round bottom, rimless, dustfree packed in plastic bag (Use stopper plug No. 5.453.000)

***Tubes de coagulation (tubes à cultures)****, à usage unique en polystyrène (PS) optique, à fond rond sans bordure, sans bouchon (utiliser le bouchon No. 5.453.000)*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 4.0 | 11 x 55 | 1000 | 5000 | **5.450.000** |



**5.450.*****

**Test tubes,** made of Polystyrene (PS), round bottom, rimless, dustfree packed in plastic bag

***Tubes à essais,*** *à usage unique en polystyrène (PS), à fond rond sans bordure*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 4.0 | 11 x 70 | 1000 | 5000 | **5.452.000** |



**5.452.*****

**Stopper plugs into mouth of coaqulation tubes 12 x 55,** made of Polyethylene (PE), available in natural, white, red, green, blue and yellow, dustfree packed in plastic bag

***Bouchons d'obturation pour tubes à coagulation 12x55,*** *en polyéthylène (PE), disponibles en couleur naturelle (N), blanche (W), rouge (R), verte (G), bleue (B) et jaune (Y)*

| | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| | 12 x 8 | 500 | 10000 | **5.453.000** |



**5.453.*****

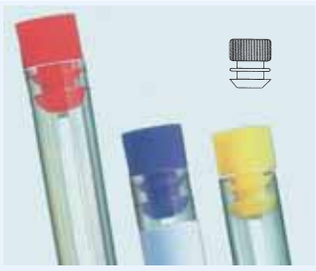
**Culture tubes (Test tubes), disposable,** made of Polystyrene (PE), round bottom, rimless, dustfree packed in plastic bag
(Use stopper plug No. 5.457.000)

***Tubes à culture,*** *à usage unique en polystyrène (PS), fond rond, sans bordure*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5.0 | 12 x 75 | 500 | 4000 | **5.456.000** |
| 5.0 | 13 x 75 | 500 | 4000 | **5.456.113** |



**5.456.*****



**5.457.*****

**Stopper plugs into mouth of culture tubes 12 x 75,** made of Polyethylene (PE), available in white, dustfree packed in plastic bag

***Bouchons d'obturation pour tubes à culture 12 x 75 mm,*** *en polyéthylène (PE), disponibles en couleur blanche*

| | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| | 12 x 8 | 2500 | 2500 | **5.457.000** |



**5.458.*****



**5.459.*****

**Culture tubes (Test tubes)** disposable, made of Polystyrene (PS), round bottom, rimless, dustfree packed in plastic bag
(Use stopper plug No. 5.460.000)

***Tubes à culture,*** *à usage unique en polystyrène (PS), fond rond, sans bordure*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10.0 | 16 x 100 | 2000 | 2000 | **5.458.000** |

**Culture tubes (Test tubes)** disposable, made of Polypropylene (PP), round bottom, rimless, dustfree packed in plastic bag
(Use stopper plug No. 5.460.000)

***Tubes à culture,*** *à usage unique en polypropylène (PP), fond rond, sans bordure*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10.0 | 16 x 100 | 2000 | 2000 | **5.459.000** |



**5.460.*****

**Stopper plugs into mouth of culture tubes 16 x 100 mm,** made of Polyethylene (PE), available in white, dustfree packed in plastic bag

***Bouchons d'obturation pour tubes à culture de 16 x 100mm,*** *en polyéthylène (PE), couleur blanche*

| | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| | 16 x 18 | 500 | 10000 | **5.460.000** |



**5.461.*****
**-**
**5.462.*****

**Centrifuge tubes (sedimentation tubes) disposable,** made of polystyrene, conical bottom, with rim dustfree packed in plastic bag (Use stopper plug No. 5.463.000)

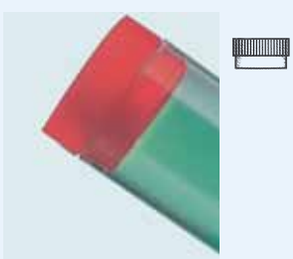
***Tubes à centrifuger (tubes de sédimentation) à usage unique en polystyrène,*** *fond conique à bord évasé*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10.0 | 16 x 105 | 2000 | 2000 | **5.461.000** |

**Centrifuge tubes (sedimentation tubes) disposable,** made of polypropylene, conical bottom, with rim, dustfree packed in plastic bag
(Use stopper plug No. 5.463.000)

***Tubes à centrifuger (tubes de sédimentation) à usage unique en polypropylène,*** *fond conique à bord évasé*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10.0 | 16 x 105 | 2000 | 2000 | **5.462.000** |



**5.463.*****

**Stopper plugs into mouth of centrifuge tubes 16 x 105 mm,** made of polyethylene (PE) dustfree packed in plastic bag

***Bouchons d'obturation pour tubes à culture de 16 x 105 mm,*** *en polyéthylène*

| | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| | 16 x 6 | 1000 | 10000 | **5.463.000** |

**Culture tubes (Test tubes) disposable, with screw cap,** made of polypropylene (PE), round bottom dustfree packed in plastic bag

***Tubes à culture à usage unique*** *en polypropylène (PP) avec bouchon à vis, fond rond*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10.0 | 16 x 100 | 2000 | 2000 | **5.464.000** |



**5.464.*****

**Test tubes, disposable, with screw cap,** made of polystyrene (PS), round bottom

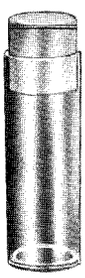
***Tubes à essais avec bouchon à vis*** *à usage unique, fond rond, en polystyrène (PS)*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Stand. pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 10.0 | 16 x 100 | 125 | 1000 | | **5.464.101** |
| 10.0 | 16 x 100 | 125 | 1000 | sterile / *stérile* | **5.464.102** |
| 16.0 | 16 x 120 | 125 | 1000 | | **5.464.111** |
| 16.0 | 16 x 120 | 125 | 1000 | sterile / *stérile* | **5.464.112** |
| 19.0 | 16 x 150 | 125 | 1000 | | **5.464.121** |
| 19.0 | 16 x 150 | 125 | 1000 | sterile / *stérile* | **5.464.122** |

**Stool collecting containers, with stopper and spoon,** made of polystyrene, stopper and spoon made of polypropylene dustfree packed in plastic bag

***Flacons de prélèvement en polystyrène*** *avec bouchon et spatule en polypropylène*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 16.0 | 22 x 63 | 1000 | 1000 | **5.465.000** |

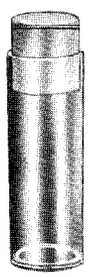


**5.465.*****

**Stool collecting containers (multi-purpose container), with stopper without spoon,** made of polystyrene, stopper made of polypropylene (PP), dustfree packed in plastic bag

***Flacons de prélèvement à usage universel en polystyrène*** *avec bouchon sans spatule en polypropylène (PP)*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 16.0 | 22 x 63 | 1000 | 1000 | **5.466.000** |

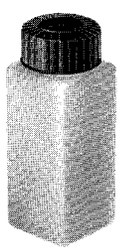


**5.466.*****

**Specimen (Urine) collecting containers,** with red screw cap quadrangular, made of polyethylene (PE)

***Flacon à prélèvement d'urine*** *avec bouchon à vis quandrangulaire en polyéthylène (PE)*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Bag<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 60.0 | 30 x 85 | 500 | 500 | **5.467.000** |



**5.467.*****

**Specimen (Urine) collecting containers,** with snap-cap, with perforated hole in lid, graduated, made of polypropylene (PP)

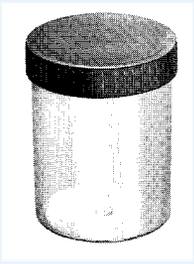
***Flacon à prélèvement d'urine gradué*** *avec bouchon à emboiter perforé, en polypropylène (PP)*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Bag<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 125.0 | 50 x 85 | 1000 | 1000 | **5.468.000** |



**5.468.*****

# VARIOUS ARTICLES
## *ARTICLES DIVERS*

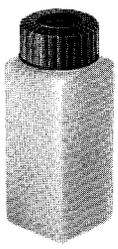


**5.470.*****

**Specimen and collecting containers, (Urine collection)** with screw cap, ungraduated, made of polystyrene (PS)

***Récipient de prélèvement d'échantillon,*** *avec bouchon à vis, non-gradué, en polystyrène (PS)*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 150.0 | 60 x 80 | 500 | 500 | **5.470.000** |



**5.471.*****

**Transport container, (Multi-purpose container),** for delivery of specimen tubes a.s.o., with screw cap, made of polyethylene (PE)

***Récipient de transport à usage universel,*** *avec bouchon à vis, en polyéthylène (PE)*

| | Ø x H<br>*Ø x H*<br>mm | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| | 85 x 30 | 500 | 500 | **5.471.100** |

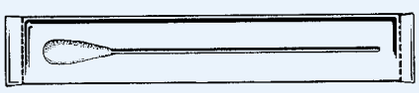


**5.473.*****

**Cotton tipped applicators** (Swabs) 150 mm long, 2.2 mm Ø

***Bâtonnets ouatés (applicateurs)*** *de 150 mm et de dia. 2.2 mm*

| | Bag<br>*Sachet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Dustfree packed, for general use<br>*Lot en sachet* | 1000 | **5.473.000** |
| Individual packed, sterile<br>*Emballage individuel stérile* | 1000 | **5.474.000** |



**5.474.*****

**Swab applicators, complete**
Swab end attached to cap of tube. 150 mm long, 12 mm Ø, sterile packed per 100 pcs. in plastic bag

***Ecouvillons (applicateurs) complet,*** *50 x 12 mm dia., emballage stérile de 100 pcs. dans sachet*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 500 | **5.475.000** |



**5.475.*****
**-**
**5.476.*****

**Swab applicators, complete**
Swab end attached to cap of tube. 150 mm long, 12 mm Ø, sterile, individual packed

***Applicateurs complet,*** *150 x 12 mm dia., emballage individuel stérile*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 500 | **5.476.000** |

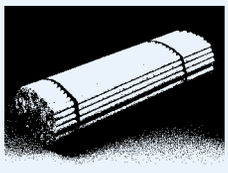


**5.478.*****

**Disposable spatulas, stirring,** made of clear polystyrene (PS), 120 mm long, 500 pcs. in plastic sleeve, 4 sleeves in standard carton. In each carton we deliver 1 dispenser tube

***Spatules d'agitation à usage unique,*** *en polystyrène transparent, 120 mm, emballage de 500 pcs.*

| | Order No.<br>*N° de code* |
|---|---|
| Without mixing table / *Sans table de mélange* | **5.478.000** |
| With mixing table / *Avec table de mélange* | **5.478.100** |



**5.479.*****

**Stirring rods, made of wood**
250 mm long, 3 mm Ø

***Tiges d'agitation en bois,*** *250 x 3 mm dia.*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 1000 | **5.479.101** |

**Disposable-Pasteur pipettes,** graduated, made of polyethylene, (PE) unbreakable, 155 mm long

***Pipettes Pasteur graduées à usage unique**, en polyéthylène (PE), 155 mm*

| Capacity<br>*Capacité*<br>ml | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5 | 500 | 3000 | **5.480.000** |
| 1.0 | 500 | 3000 | **5.480.001** |
| 3.0 | 500 | 3000 | **5.480.003** |



**5.480.*****

**Disposable one-piece dropping pipettes,** (transfer pipettes), no hazards from broken glass

***Pipettes de transfert à usage unique***

| Capacity<br>*Capacité*<br>ml | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 1.5 | 100 | 7000 | **5.484.001** |
| 4.0 | 100 | 3000 | **5.484.002** |



**5.484.*****

**Disposable dropping pipettes, (transfer pipettes),** ungraduated. made of Polyethylene Low-Density (PE-LD), nature, one piece construction, reduces chance of contamination

***Pipettes de transfert,** non-graduées en polyéthylène (PE)*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.7 | 145 | 100 | | **5.484.117** |
| 1.8 | 98 | 100 | | **5.484.118** |
| 2.4 | 155 | 100 | | **5.484.124** |

## Syringes
## *Seringues*

**Sterile disposable syringes,** (3-component LUER) without needle, single packed, pyrogenfree

***Seringues stériles à usage unique** (3 parties Luer) sans aiguille, emballage individuel*

| Capacity<br>*Capacité*<br>ml | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 1.0 | | 2000 | **5.484.100** |
| 3.0 | 100 | - | **5.484.101** |
| 5.0 | 100 | - | **5.484.102** |
| 10.0 | 100 | - | **5.484.103** |
| 20.0 | 120 | - | **5.484.104** |
| 50.0/60.0 | 60 | - | **5.484.105** |

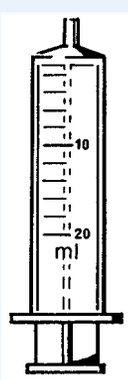


**5.484.1****

**Sterile disposable syringes,** (2-component LUER) without needle, single packed, pyrogenfree

***Seringues stériles à usage unique** (2 parties Luer) sans aiguille, emballage individuel*

| Capacity<br>*Capacité*<br>ml | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 2.0 | 2500 | **5.484.202** |
| 5.0 | 2000 | **5.484.205** |
| 10.0 | 1200 | **5.484.210** |
| 20.0 | 500 | **5.484.220** |




**5.484.2****




5.484.230




5.484.240




5.484.250




5.484.250 D

**Glass- and Metal-Syringes**
autoclavable at 134°C and interchangeable graduated glass cylinder with steel piston and conformity approved

***Seringues en verre et métal*** *stérilisable à 134°C avec corps en verre gradué à piston en acier*

**Type / *Type***
**1.** Record Tip / *Embout Record*
**2.** Luer Tip / *Embout Luer*
**3.** Luer Lock Tip (with centric Tip) / *Embout Luer Lock*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Type 1<br>*Type 1* | Type 2<br>*Type 2* | Type 3<br>*Type 3* |
|---|---|---|---|---|
| 1.0 | 0.1 | **5.484.230** | **5.484.240** | **5.484.250** |
| 2.0 | 0.1 | **5.484.231** | **5.484.241** | **5.484.251** |
| 5.0 | 0.2 | **5.484.232** | **5.484.242** | **5.484.252** |
| 10.0 | 1.0 | **5.484.233** | **5.484.243** | **5.484.253** |
| 20.0 | 1.0 | **5.484.234** | **5.484.244** | **5.484.254** |
| 30.0 | 1.0 | **5.484.235** | **5.484.245** | **5.484.255** |
| 50.0 | 1.0 | **5.484.236** | **5.484.246** | **5.484.256** |

Spare parts / Pièces de rechange

Spare Barrel for Syringes: Record Tip, Luer Tip, Luer-Lock Tip, centrical (please add. letter „D“ behind the Order No.)
*Cylindre en verre de rechange avec embout métallique au choix (rajouter la lettre « D » derrière le No. de code)*



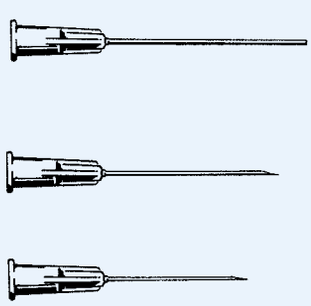
**5.484.26***
**-**
**5.484.27***

**Glass syringes, made of borosilicate glass**
autoclavable up to 121°C, graduated with interchangeable piston and available with glass Luer cone tip (L) or with metal Luer-Lock tip (LL)

***Seringues en verre borosilicate,*** *autoclavable jusqu'à 121°C, graduées à piston interchangeable et disponibles avec embout Luer en verre (L) ou bien avec embout métallique Luer-Lock (LL)*

**Type / *Type***
**1.** Glass Luer cone tip (L) / *Luer en verre (L)*
**2.** Metal Luer-Lock tip (LL) / *Métallique Luer-Lock (LL)*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Type 1<br>*Type 1* | Type 2<br>*Type 2* |
|---|---|---|---|
| 1.0 | 0.1 | **5.484.260** | **5.484.270** |
| 2.0 | 0.1 | **5.484.261** | **5.484.271** |
| 3.0 | 0.2 | **5.484.262** | **5.484.272** |
| 5.0 | 0.2 | **5.484.263** | **5.484.273** |
| 10.0 | 0.2 | **5.484.264** | **5.484.274** |
| 20.0 | 1.0 | **5.484.265** | **5.484.275** |
| 30.0 | 1.0 | **5.484.266** | **5.484.276** |
| 50.0 | 1.0 | **5.484.267** | **5.484.277** |
| 100.0 | 5.0 | **5.484.268** | **5.484.278** |



**5.484.3****

**Sterile disposable needles with colored PP Luer tip**

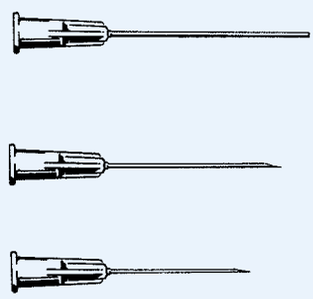
***Aiguilles stériles à usage unique*** *avec embout Luer en PP coloré*

| Color code<br>*Code-couleur* | | Pravaz-size<br>*Taille* | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| ● | Nr.1 | 20G 1 1/2“<br>0.9 x 40 | 100 | 1000 | **5.484.301** |
| ● | Nr.2 | 21G 1 1/2“<br>0.8 x 40 | 100 | 1000 | **5.484.302** |
| ● | Nr.16 | 23G 1“<br>0.6 x 25 | 100 | 1000 | **5.484.305** |

**Sterile disposable needles,** with Luer –Lock tip , made of polypropylene (PP), standard pack of 100 pcs.

***Aiguilles d'injection stériles,*** *à embout Luer-lock en PP, à usage unique. Emballage de 100*

| Size<br>*Taille* | Ø x Length<br>*Ø x Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| No. 1 | 0.90 x 40 | **5.484.310** |
| No. 2 | 0.80 x 40 | **5.484.311** |
| No. 12 | 0.70 x 30 | **5.484.312** |
| No. 14 | 0.60 x 30 | **5.484.313** |
| No. 16 | 0.60 x 25 | **5.484.314** |
| No. 18 | 0.45 x 25 | **5.484.315** |
| Special size | 0.80 x 50 | **5.484.316** |
| Special size | 1.10 x 50 | **5.484.317** |
| Special size | 0.60 x 60 | **5.484.318** |
| Special size | 0.90 x 70 | **5.484.319** |



**5.484.31***

**Injection needles,** stainless steel, extra-long, with chromed-messing Luer-Lock tip, standard pack of 3 pcs.

***Aiguilles d'injection extra longues*** *en acier inoxydable avec embout Luer-Lock en laiton chromé. Emballage de 3*

| Ø x Length<br>*Ø x Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0.6 x 80 | **5.484.320** |
| 0.6 x 100 | **5.484.321** |
| 0.8 x 80 | **5.484.322** |
| 0.8 x 100 | **5.484.323** |
| 0.8 x 120 | **5.484.324** |
| 1.0 x 60 | **5.484.325** |
| 1.0 x 80 | **5.484.326** |
| 1.0 x 100 | **5.484.327** |
| 1.0 x 120 | **5.484.328** |
| 1.0 x 150 | **5.484.329** |
| 1.0 x 200 | **5.484.330** |
| 1.2 x 60 | **5.484.331** |
| 1.2 x 80 | **5.484.332** |
| 1.2 x 100 | **5.484.333** |
| 1.2 x 120 | **5.484.334** |
| 1.2 x 150 | **5.484.335** |
| 1.5 x 80 | **5.484.336** |
| 1.5 x 100 | **5.484.337** |
| 1.5 x 120 | **5.484.338** |
| 1.5 x 150 | **5.484.339** |
| 2.0 x 60 | **5.484.340** |
| 2.0 x 80 | **5.484.341** |
| 2.0 x 100 | **5.484.342** |
| 2.0 x 120 | **5.484.343** |
| 2.0 x 150 | **5.484.344** |
| 2.0 x 200 | **5.484.345** |
| 2.5 x 60 | **5.484.346** |
| 2.5 x 80 | **5.484.347** |
| 2.5 x 100 | **5.484.348** |
| 2.5 x 120 | **5.484.349** |
| 2.5 x 150 | **5.484.350** |



**5.484.3****

**Injection needles,** autoclavable made of stainless steel suitable for all syringes with Luer and Luer-Lock tip, standard pack of 12 pcs.

***Aiguilles d'injection,*** *autoclavables en acier inoxydable adaptées pour toutes les seringues avec embout Luer et Luer-Lock, emballage de 12*

| Ø x Length<br>*Ø x Longueur*<br>mm | Gauge<br>*Taille* | Order No.<br>*N° de code* |
|---|---|---|
| 0.45 x 18 | 26G | **5.484.355** |
| 0.45 x 21 | 26G | **5.484.356** |
| 0.50 x 23 | 25G | **5.484.357** |
| 0.55 x 25 | 24G | **5.484.358** |
| 0.60 x 25 | 23G | **5.484.359** |
| 0.65 x 30 | - | **5.484.360** |
| 0.70 x 32 | 22G | **5.484.361** |
| 0.80 x 35 | 21G | **5.484.362** |
| 0.90 x 38 | 20G | **5.484.363** |
| 1.00 x 60 | 19G | **5.484.364** |
| 1.20 x 40 | 18G | **5.484.365** |



**5.484.35***



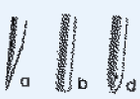
**5.484.37***

**Sterile injection needles**
made of NiCr-steel, with Luer-Lock tip made of colored silicone. Standard pack of 100 pcs

***Aiguilles d'injection stériles***
*en fil d'acier chromé avec embout Luer-Lock en silicone coloré. Emballage de 100 pièces*

| Ø x Length<br>*Ø x Longueur*<br>mm | Gauge<br>*Taille* | Color<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.40 x 20 | 27G x 4/5“ | | **5.484.370** |
| 0.45 x 25 | 26G x 1“ | | **5.484.371** |
| 0.55 x 25 | 24G x 1“ | | **5.484.372** |
| 0.60 x 25 | 23G x 1“ | | **5.484.373** |
| 0.60 x 30 | 23G x 1/4“ | | **5.484.374** |
| 0.60 x 60 | 23G x 2 2/5“ | | **5.484.375** |
| 0.60 x 80 | 23G x 3 1/5“ | | **5.484.376** |
| 0.70 x 30 | 22G x 1“ | | **5.484.377** |
| 0.80 x 22 | 21G x 7/8“ | | **5.484.378** |
| 0.80 x 40 | 21G x 1“ | | **5.484.379** |
| 0.80 x 50 | 21G x 2“ | | **5.484.380** |
| 0.80 x 120 | 21G x 4“ | | **5.484.381** |
| 0.90 x 40 | 20G x 1“ | | **5.484.382** |
| 0.90 x 70 | 20G x 2“ | | **5.484.383** |
| 1.10 x 50 | 19G x 2“ | | **5.484.384** |
| 1.20 x 40 | 18G x 1“ | | **5.484.385** |

## Microsyringes
## *Microseringues*






**5.484.41***

**Microsyringes Series N with fixed needle**
for dispensing of liquids in gas chromatography , HPLC-valves and autosamplers. Glass barrel made of borosilicate glass with stainless steel plunger

***Microseringues Série N à aiguille fixe*** *pour l'injection de liquides en chromatographie phase gazeuse, vannes d'injection HPLC et passeurs d'échantillons. Cylindre en verre borosilicaté avec piston en acier inoxydable*

**Type** / *Type*
**Needle tip « a »** is designed for optimum penetration of the septa. 17° bevel
**Needle tip « b »** is designed for HPLC sample injection. 90° bevel
**Needle tip « d »** with side opening is designed for dispensing and filling. Ideal for thicker septa and for headspace analysis

***Embout d'aiguille "a"*** *de 17° prévu pour une penetration optimale du septum*
***Embout d'aiguille "b"*** *de 90° prévu pour l'injection d'échantillons HPLC*
***Embout d'aiguille "d"*** *avec orifice latéral prévu pour distribution et remplissage. Idéal pour les septums épais et pour l'analye Headspace*

| Capacity<br>*Capacité*<br>µl | < a ><br>51 mm | < a ><br>70 mm | < b ><br>51 mm | < d ><br>51 mm |
|---|---|---|---|---|
| 5 | **5.484.410** | - | **5.484.430** | **5.484.440** |
| 10 | **5.484.411** | **5.484.421** | **5.484.431** | **5.484.441** |
| 25 | **5.484.412** | **5.484.422** | **5.484.432** | **5.484.442** |
| 50 | **5.484.413** | **5.484.423** | **5.484.433** | **5.484.443** |
| 100 | **5.484.414** | **5.484.424** | **5.484.434** | **5.484.444** |
| 250 | **5.484.415** | - | **5.484.435** | **5.484.445** |
| 500 | **5.484.416** | - | **5.484.436** | **5.484.446** |

Economic pack of 6 syringes Series N, fixed needle, length 51 mm with needle tip "a"
*Paquet de 6 microseringues Série N, à aiguille fixe, longueur 51 mm à embout « a »*

| | |
|---|---|
| 5 | **5.484.450** |
| 10 | **5.484.451** |

**Microsyringes Series N with removable needle** for dispensing of liquids in gas chromatography , HPLC-valves and autosamplers. Glass barrel made of borosilicate glass with stainless steel plunger

***Microsyringes Série N à aiguille interchangeable*** *pour l'injection de liquides en chromatographie phase gazeuse, vannes d'injection HPLC et passeurs d'échantillons. Cylindre en verre borosilicaté avec piston en acier inoxydable*

**Type / *Type***

**Needle tip « a »** is designed for optimum penetration of the septa. 17° bevel
**Needle tip « b »** is designed for HPLC sample injection. 90° bevel

***Embout d'aiguille "a"*** *de 17° prévu pour une penetration optimale du septum*
***Embout d'aiguille "b"*** *de 90° prévu pour l'injection d'échantillons HPLC*

| Capacity<br>*Capacité*<br>µl | < a ><br><br>51 mm | < b ><br><br>51 mm |
|---|---|---|
| 5 | **5.484.460** | **5.484.470** |
| 10 | **5.484.461** | **5.484.471** |
| 25 | **5.484.462** | **5.484.472** |
| 50 | **5.484.463** | **5.484.473** |
| 100 | **5.484.464** | **5.484.474** |
| 250 | **5.484.465** | **5.484.475** |
| 500 | **5.484.466** | **5.484.476** |

Economic pack of 6 syringes Series N, removeable needle, length 51 mm with needle tip "a"
*Paquet de 6 microseringues Série N, à aiguille interchangeable, longueur 51 mm à embout « a »*

| | |
|---|---|
| 10 | **5.484.480** |






**5.484.46***

**Syringes Series H with fixed needle** for dispensing of gas and liquids in gas chromatography , HPLC-valves, autosamplers and dosage of aggresives fluids. Glass barrel made of borosilicate glass and stainless steel plunger with PTFE-seal

***Seringues Série H à aiguille fixe,*** *pour l'injection de gaz et liquides en chromatographie phase gazeuse, vannes d'injection HPLC, passeurs d'échantillons. Cylindre en verre borosilicaté avec piston en acier inoxydable et joint en téflon*

**Type / *Type***

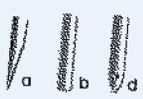
**Needle tip « a »** is designed for optimum penetration of the septa. 17° bevel
**Needle tip « b »** is designed for HPLC sample injection. 90° bevel
**Needle tip « d »** with side opening is designed for dispensing and filling. Ideal for thicker septa and for headspace analysis

***Embout d'aiguille "a"*** *de 17° prévu pour une penetration optimale du septum*
***Embout d'aiguille "b"*** *de 90° prévu pour l'injection d'échantillons HPLC*
***Embout d'aiguille "d"*** *avec orifice latéral prévu pour distribution et remplissage. Idéal pour les septums épais et pour l'analyse Headspace*

| Capacity<br>*Capacité*<br>µl | < a ><br><br>51 mm | < b ><br><br>51 mm | < d ><br><br>51 mm |
|---|---|---|---|
| 5 | **5.484.510** | **5.484.530** | **5.484.550** |
| 10 | **5.484.511** | **5.484.531** | **5.484.551** |
| 25 | **5.484.512** | **5.484.532** | **5.484.552** |
| 50 | **5.484.513** | **5.484.533** | **5.484.553** |
| 100 | **5.484.514** | **5.484.534** | **5.484.554** |
| 250 | **5.484.515** | **5.484.535** | **5.484.555** |
| 500 | **5.484.516** | **5.484.536** | **5.484.556** |
| **ml** | | | |
| 1.0 | **5.484.517** | **5.484.537** | **5.484.557** |
| 2.5 | **5.484.518** | **5.484.538** | **5.484.558** |
| 5.0 | **5.484.519** | **5.484.539** | **5.484.559** |
| 10.0 | **5.484.520** | **5.484.540** | **5.484.560** |

Economic pack of 6 syringes Series H, fixed needle, length 51 mm with needle tip "a"
*Paquet de 6 microseringues Série H, à aiguille fixe, longueur 51 mm à embout « a »*

| µl | |
|---|---|
| 5 | **5.484.470** |
| 10 | **5.484.471** |






**5.484.51***

**Syringes Series H with removable needle**
for dispensing of gas and liquids in gas chromatography , HPLC-valves, autosamplers and dosage of aggresives fluids. Glass barrel made of borosilicate glass and stainless steel plunger with PTFE-seal

***Seringues Série H à aiguille interchangeable***
*pour l'injection de gaz et liquides en chromatographie phase gazeuse, vannes d'injection HPLC, passeurs d'échantillons. Cylindre en verre borosilicaté avec piston en acier inoxydable et joint en téflon*

**Type / *Type***

**Needle tip « a »** is designed for optimum penetration of the septa. 17° bevel
**Needle tip « b »** is designed for HPLC sample injection. 90° bevel
**Needle tip « d »** with side opening is designed for dispensing and filling. Ideal for thicker septa and for headspace analysis

***Embout d'aiguille "a"*** *de 17° prévu pour une penetration optimale du septum*
***Embout d'aiguille "b"*** *de 90° prévu pour l'injection d'échantillons HPLC*
***Embout d'aiguille "d"*** *avec orifice latéral prévu pour distribution et remplissage. Idéal pour les septums épais et pour l'analye Headspace*






**5.484.58***

| Capacity<br>*Capacité* | < a > | < b > | < d > |
|---|---|---|---|
| µl | 51 mm | 51 mm | 51 mm |
| 5 | **5.484.580** | **5.484.600** | **5.484.620** |
| 10 | **5.484.581** | **5.484.601** | **5.484.621** |
| 25 | **5.484.582** | **5.484.602** | **5.484.622** |
| 50 | **5.484.583** | **5.484.603** | **5.484.623** |
| 100 | **5.484.584** | **5.484.604** | **5.484.624** |
| 250 | **5.484.585** | **5.484.605** | **5.484.625** |
| 500 | **5.484.586** | **5.484.606** | **5.484.626** |
| ml | | | |
| 1.0 | **5.484.587** | **5.484.607** | **5.484.627** |
| 2.5 | **5.484.588** | **5.484.608** | **5.484.628** |
| 5.0 | **5.484.589** | **5.484.609** | **5.484.629** |
| 10.0 | **5.484.590** | **5.484.610** | **5.484.630** |

**Syringes Series H with Luer-Tip**
for dispensing of gas but without needle. Glass barrel made of borosilicate glass and stainless steel plunger with PTFE-seal, autoclavable

***Seringues Série H à embout Luer***
*pour l'injection de gaz et liquides, sans aiguille. Cylindre en verre borosilicaté avec piston en acier inoxydable et joint en téflon, autoclavable*



**5.484.64***

| Capacity<br>*Capacité* | With Glass Luer-Tip<br>*Embout Luer en verre* | With PTFE Luer-Tip<br>*Embout Luer en Téflon* |
|---|---|---|
| µl | | |
| 5 | **5.484.640** | **5.484.660** |
| 10 | **5.484.641** | **5.484.661** |
| 25 | **5.484.642** | **5.484.662** |
| 50 | **5.484.643** | **5.484.663** |
| 100 | **5.484.644** | **5.484.664** |
| 250 | **5.484.645** | **5.484.665** |
| 500 | **5.484.646** | **5.484.666** |
| ml | | |
| 1.0 | **5.484.647** | **5.484.667** |
| 2.5 | **5.484.648** | **5.484.668** |
| 5.0 | **5.484.649** | **5.484.669** |
| 10.0 | **5.484.650** | **5.484.670** |

**Syringes Series H with TLL PTFE Luer-Lock** for dispensing of gas but without needle. Glass barrel made of borosilicate glass and plunger with PTFE-seal

***Seringues Série H à embout Luer-Lock en téflon*** *pour l'injection de gaz et liquides, sans aiguille. Cylindre en verre borosilicaté avec piston à joint en téflon*

| Capacity<br>*Capacité*<br>µl | Order No.<br>*No. de Code* |
|---|---|
| 5 | 5.484.680 |
| 10 | 5.484.681 |
| 25 | 5.484.682 |
| 50 | 5.484.683 |
| 100 | 5.484.684 |
| 250 | 5.484.685 |
| 500 | 5.484.686 |
| **ml** | |
| 1.0 | 5.484.687 |
| 2.5 | 5.484.688 |
| 5.0 | 5.484.689 |
| 10.0 | 5.484.690 |
| 25.0 | 5.484.691 |
| 50.0 | 5.484.692 |
| 100.0 | 5.484.693 |



5.484.68*

**Syringes Rack,** for 3 syringes

***Porte-seringues,*** *pour 3 seringues*

| | Order No.<br>*No. de Code* |
|---|---|
| | 5.484.695 |

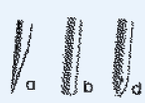


5.484.695

**Removable needles,** for Syringes Series N and H

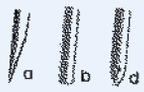
***Aiguilles interchangeables,*** *pour seringues Séries N et H*

| Ø x Length<br>*Ø x Longueur*<br>mm | Tip style<br>*Forme d'embout* | Tapered<br>*Bouchonné* | Packing<br>*Emballage*<br>pcs. | 5 µl | 10 µl |
|---|---|---|---|---|---|
| 0.47 x 42 | a | yes/*oui* | 3 | 5.484.730 | 5.484.735 |
| 0.47 x 51 | a | yes/*oui* | 3 | 5.484.731 | 5.484.736 |
| 0.47 x 51 | b | no/*non* | 3 | 5.484.732 | 5.484.737 |
| 0.47 x 51 | d | no/*non* | 2 | 5.484.733 | 5.484.738 |
| | | | | 25 µl - 100 µl | 250 µl - 10.0 ml |
| 0.55 x 51 | a | yes/*oui* | 3 | 5.484.740 | 5.484.745 |
| 0.55 x 51 | b | no/*non* | 3 | 5.484.741 | 5.484.746 |
| 0.55 x 51 | d | no/*non* | 2 | 5.484.742 | 5.484.747 |
| 0.72 x 51 | a | yes/*oui* | 3 | 5.484.743 | 5.484.748 |
| 0.72 x 51 | d | no/*non* | 2 | 5.484.744 | 5.484.749 |
| 0.90 x 51 | a | no/*non* | 3 | - | 5.484.750 |
| 1.10 x 51 | a | no/*non* | 3 | - | 5.484.751 |
| 2.00 x 51 | a | no/*non* | 2 | - | 5.484.752 |






5.484.73*



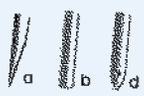


**5.484.76***

**NLL Needles with metal Luer-screw,** length 51 mm, CrNi 1.4301 (AISI SS 304) and Luer made of nickel plated brass

***Aiguilles à raccord à vis Luer en métal,*** *51 mm en CrNi 1.4301 (AISI SS 304) et Luer en laiton nickelé*

| Gauge *Taille* | Outer Ø *Ø ext.* | Inner Ø *Ø int.* | Tip style *Forme d'embout* | Tip style *Forme d'embout* | Tip style *Forme d'embout* |
|---|---|---|---|---|---|
| | mm | mm | < a > (3 pcs.) | < b > (3 pcs.) | < d > (2 pcs.) |
| 33 | 0.20 | 0.11 | **5.484.760** | **5.484.810** | - |
| 32 | 0.25 | 0.11 | **5.484.761** | **5.484.811** | - |
| 30 | 0.30 | 0.15 | **5.484.762** | **5.484.812** | - |
| 29 | 0.35 | 0.15 | **5.484.763** | **5.484.813** | - |
| 27 | 0.40 | 0.20 | **5.484.764** | **5.484.814** | - |
| 26 | 0.45 | 0.25 | **5.484.765** | **5.484.815** | - |
| 26s | 0.47 | 0.13 | **5.484.766** | **5.484.816** | - |
| 25 | 0.50 | 0.28 | **5.484.767** | **5.484.817** | **5.484.837** |
| 24 | 0.55 | 0.32 | **5.484.768** | **5.484.818** | **5.484.838** |
| 23 | 0.65 | 0.35 | **5.484.769** | **5.484.819** | **5.484.839** |
| 22 | 0.72 | 0.41 | **5.484.770** | **5.484.820** | **5.484.840** |
| 22s | 0.72 | 0.20 | **5.484.771** | **5.484.821** | **5.484.841** |
| 21 | 0.80 | 0.50 | **5.484.772** | **5.484.822** | **5.484.842** |
| 20 | 0.90 | 0.60 | **5.484.773** | **5.484.823** | **5.484.843** |
| 20 | 1.00 | 0.68 | **5.484.774** | **5.484.824** | **5.484.844** |
| 19 | 1.10 | 0.80 | **5.484.775** | **5.484.825** | **5.484.845** |
| 18 | 1.30 | 0.90 | **5.484.776** | **5.484.826** | **5.484.846** |
| 17 | 1.50 | 1.10 | **5.484.777** | **5.484.827** | **5.484.847** |
| 16 | 1.70 | 1.20 | **5.484.778** | **5.484.828** | **5.484.848** |
| 15 | 1.80 | 1.40 | **5.484.779** | **5.484.829** | **5.484.849** |
| 15 | 2.00 | 1.26 | **5.484.780** | **5.484.830** | **5.484.850** |
| 13 | 2.40 | 1.90 | **5.484.781** | **5.484.831** | **5.484.851** |
| 12 | 2.80 | 2.20 | **5.484.782** | **5.484.832** | **5.484.852** |
| 12 | 3.00 | 2.06 | **5.484.783** | **5.484.833** | **5.484.853** |
| 11 | 3.00 | 2.40 | **5.484.784** | **5.484.834** | **5.484.854** |
| 10 | 3.40 | 2.70 | **5.484.785** | **5.484.835** | **5.484.855** |





**KNLL Needles, with plastic Luer-screw** length 51 mm, CrNi 1.4301 (AISI SS 304) and Luer made of PVDF

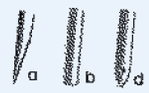
***Aiguilles à raccord, à vis Luer en plastique*** *51 mm en CrNi 1.4301 (AISI SS 304) et Luer en PVDF*

| Gauge *Taille* | Outer Ø *Ø ext.* | Inner Ø *Ø int.* | Tip style *Forme d'embout* | Tip style *Forme d'embout* | Tip style *Forme d'embout* |
|---|---|---|---|---|---|
| | mm | mm | < a > (3 pcs.) | < b > (3 pcs.) | < d > (2 pcs.) |
| 33 | 0.20 | 0.11 | **5.484.860** | **5.484.890** | - |
| 32 | 0.25 | 0.11 | **5.484.861** | **5.484.891** | - |
| 30 | 0.30 | 0.15 | **5.484.862** | **5.484.892** | - |
| 29 | 0.35 | 0.15 | **5.484.863** | **5.484.893** | - |
| 27 | 0.40 | 0.20 | **5.484.864** | **5.484.894** | - |
| 26 | 0.45 | 0.25 | **5.484.865** | **5.484.895** | - |
| 26s | 0.47 | 0.13 | **5.484.866** | **5.484.896** | - |
| 25 | 0.50 | 0.28 | **5.484.867** | **5.484.897** | **5.484.917** |
| 24 | 0.55 | 0.32 | **5.484.868** | **5.484.898** | **5.484.918** |
| 23 | 0.65 | 0.35 | **5.484.869** | **5.484.899** | **5.484.919** |
| 22 | 0.72 | 0.41 | **5.484.870** | **5.484.900** | **5.484.920** |
| 22s | 0.72 | 0.20 | **5.484.871** | **5.484.901** | **5.484.921** |

**KNLL Needles, with plastic Luer-screw** length 51 mm, CrNi 1.4301 (AISI SS 304) and Luer made of PVDF

***Aiguilles à raccord, à vis Luer en plastique*** *51 mm en CrNi 1.4301 (AISI SS 304) et Luer en PVDF*

| Gauge<br>*Taille* | Outer Ø<br>*Ø ext.* | Inner Ø<br>*Ø int.* | Tip style<br>*Forme d'embout* | Tip style<br>*Forme d'embout* | Tip style<br>*Forme d'embout* |
|---|---|---|---|---|---|
| | mm | mm | < a > (3 pcs.) | < b > (3 pcs.) | < d > (2 pcs.) |
| 21 | 0.80 | 0.50 | **5.484.872** | **5.484.902** | **5.484.922** |
| 20 | 0.90 | 0.60 | **5.484.873** | **5.484.903** | **5.484.923** |
| 20 | 1.00 | 0.68 | **5.484.874** | **5.484.904** | **5.484.924** |
| 19 | 1.10 | 0.80 | **5.484.875** | **5.484.905** | **5.484.925** |
| 18 | 1.30 | 0.90 | **5.484.876** | **5.484.906** | **5.484.926** |
| 17 | 1.50 | 1.10 | **5.484.877** | **5.484.907** | **5.484.927** |
| 16 | 1.70 | 1.20 | **5.484.878** | **5.484.908** | **5.484.928** |
| 15 | 1.80 | 1.40 | **5.484.879** | **5.484.909** | **5.484.929** |
| 15 | 2.00 | 1.26 | **5.484.880** | **5.484.910** | **5.484.930** |
| 13 | 2.40 | 1.90 | **5.484.881** | **5.484.911** | **5.484.931** |
| 12 | 2.80 | 2.20 | **5.484.882** | **5.484.912** | **5.484.932** |
| 12 | 3.00 | 2.06 | **5.484.883** | **5.484.913** | **5.484.933** |
| 11 | 3.00 | 2.40 | **5.484.884** | **5.484.914** | **5.484.934** |
| 10 | 3.40 | 2.70 | **5.484.885** | **5.484.915** | **5.484.935** |






**HPLC Syringes,** for the most common valve injectors from **Rheodyne - Varian - Shimadzu - Knauer - HP/Agilent - Valco VISF-2**. Barrel made of borosilicate glass. Precision: <+/- 1% of the volume. Special stainless steel plunger with PTFE-seal

***Seringues pour HPLC,*** *compatibles avec la plupart des vanes d'injection telle que:* ***Rheodyne - Varian - Shimadzu - Knauer - HP/Agilent - Valco VISF-2****. Cylindre en verre borosilicate. Piston en acier inoxydable avec joint en téflon*

| Capacity<br>*Capacité* | Fixed needle<br>*Aiguille fixe* | Removeable needle<br>*Aiguille interchangeable* | TLL Luer-Lock<br>*Embout Luer TLL* |
|---|---|---|---|
| | < b > | < b > | |
| µl | | | |
| 5 | **5.484.940** | **5.484.950** | - |
| 10 | **5.484.941** | **5.484.951** | - |
| 25 | **5.484.942** | **5.484.952** | - |
| 50 | **5.484.943** | **5.484.953** | **5.484.963** |
| 100 | **5.484.944** | **5.484.954** | **5.484.964** |
| 250 | **5.484.945** | **5.484.955** | **5.484.965** |
| 500 | **5.484.946** | **5.484.956** | **5.484.966** |
| ml | | | |
| 1.0 | **5.484.947** | **5.484.957** | **5.484.967** |



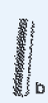



**5.484.94***

**HPLC Syringes** for Waters valves. Barrel made of borosilicate glass. Precision: <+/- 1% of the volume. Special stainless steel plunger with PTFE-seal

***Seringues*** *pour vannes d'injection de Waters. Cylindre en verre borosilicate. Piston en acier inoxydable avec joint en téflon*

| Capacity<br>*Capacité* | Fixed needle<br>*Aiguille fixe* | Removeable needle<br>*Aiguille interchangeable* | TLL Luer-Lock<br>*Embout Luer TLL* |
|---|---|---|---|
| | < b > | < b > | |
| µl | | | |
| 10 | **5.484.970** | **5.484.980** | - |
| 25 | **5.484.971** | **5.484.981** | - |
| 50 | **5.484.972** | **5.484.982** | **5.484.992** |
| 100 | **5.484.973** | **5.484.983** | **5.484.993** |
| 250 | **5.484.974** | **5.484.984** | **5.484.994** |
| 500 | **5.484.975** | **5.484.985** | **5.484.995** |
| ml | | | |
| 1.0 | **5.484.976** | **5.484.986** | **5.484.996** |
| 2.5 | **5.484.977** | **5.484.987** | **5.484.997** |






**5.484.97***



**5.484.999**

**Quantitation & Control Standard Reference Material for nucleic acid analysis (DNA)**
This robust and durable standard reference material allows quick and reliable quality control and assurance of the DNA 260/280 nm measurement process. This control material has been specifically designed to assure the wavelength accuracy in critical nucleic acid measurements. This standard, as Certified Reference Material range, is produced in an ISO 17025 and ISO Guide 34 accredited environment, meeting the highest available regulatory standards. Created for use as a new reliable NIST traceable Quality Control Standard by clinical and bioscience laboratories analysing and evaluating the purity of a range of nucleic acids such as DNA, RNA, RNAi and ssDNA. Supplied with an UKAS Certificate.

***Etalon de référence certifié pour l'analyse des acides nucléiques (ADN)***
*Cet étalon robuste et durable permet d'effectuer rapidement des contrôles de qualité et d'assurance des ADN à 260/280nm.*
*Il a été développé pour garantir la précision de la longueur d'onde dans des mesures critiques d'acide nucléiques. Cet étalon certifié répond aux normes ISO 17025 ISO guide 34 et a été concu pour analyser et évaluler la pureté d'une large gamme d'acides nucléiques tels que les ADN, ARNi et ssADN. Livré avec certificat UKAS*

| | Order No.<br>*N° de code* |
|---|---|
| | **5.484.999** |



**5.485.***

**Cryovials,** made of translucent polypropylene (PP), sterilized by radiation and meant for deep freezing from - 20 to 196 °C. Screw cap with seal joint. Selfstanding or not. A white marking area allows an easy identification. Advice for freezing storage of serum and cells culture. Packed 100 pieces per bag, 10 bags per carton.

***Tubes cryogéniques*** *en polypropylène, stériles, pour la conservation d'échantillons à basse température, bouchon à vissage rapide et à fond rond ou autostable. Sachet de 100 pcs. ou 10 sachets par carton*

| Capacity<br>*Capacité*<br>ml | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|
| 1.2 | conical / *Fond conique* | **5.485.001** |
| 2.0 | round - self standing / *Fond autostable* | **5.485.002** |
| 4.0 | round - self standing / *Fond autostable* | **5.485.003** |
| 5.0 | round / *Fond rond* | **5.485.004** |
| 2.0 | round / *Fond rond* | **5.485.005** |

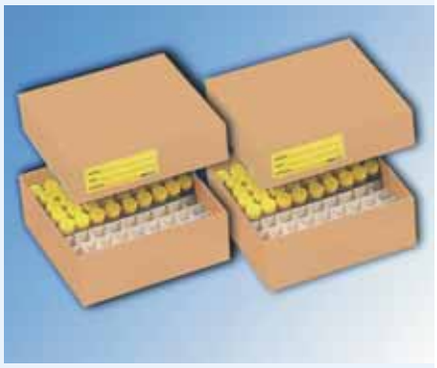


**5.485.1****

**Inserts,** coloured fit precisely into the cryovial caps for idenfication. Freezing resistance. 500 pieces per bag, 4 bags per carton.

***Pastilles de couleur*** *pour tubes cryogéniques à insérer dans le bouchon des cryotubes permettant l'identification. En sacher de 500 pièces ou 4 sachets par carton*

| Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|
| | **5.485.101** |
| | **5.485.102** |
| | **5.485.103** |
| | **5.485.104** |
| | **5.485.105** |



**5.485.201**
**-**
**5.485.202**

**Cryoboxes water rejecting cardboard.** Convenient handling and preventation to direct frost. Can be placed into vertical and horzontal racks. With 100 places for 4 or 5 ml test tubes 136 x 136 x 77 mm, brown.

***Boites cryogéniques en carton résistantes à l'eau,*** *destinées au stockage de 100 tubes cryogéniques de 4 ou 5 ml verticalement ou horizontalement, 136 x 136 x 77 mm, marron*

| | Order No.<br>*N° de code* |
|---|---|
| Standard box with 96 pcs. / *Conditionnement standard: 96 boites* | **5.485.201** |

**Cryoboxes water rejecting cardboard.** Convenient handling and preventation to direct frost. Can be placed into vertical and horzontal racks. With 100 places for 2 ml test tubes 136 x 136 x 52 mm, beige.

***Boites cryogéniques en carton résistantes à l'eau,*** *destinées au stockage de 100 tubes cryogéniques de 2 ml verticalement ou horizontalement, 136 x 136 x 52 mm, beige*

| | Order No.<br>*N° de code* |
|---|---|
| Standard box with 144 pcs. / *Conditionnement standard: 144 boites* | **5.485.202** |

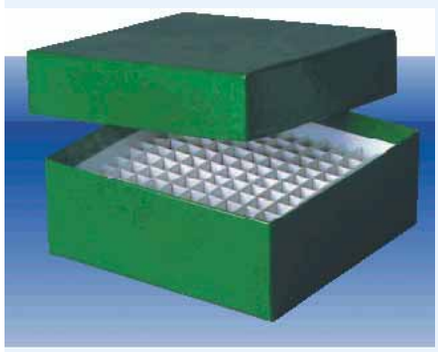
**Cryo Boxes**
made of ultra low temperature resistant cardboard for sample storage, available with a water-resistant plastic coating or with a water-repellent finish. Box can be combined with different grid inserts. Several colours. Standard pack: 10 boxes

***Cryoboites***
*en carton résistant aux très basses températures pour le stockage d'échantillons, imprégnées ou à revêtement plastifié à haute résistance à l'eau et peuvent être complétées avec divers séparateurs. Différentes colories. Conditionnement : en paquet de 10 boites*

| Colour-code<br>*Code-couleur* | Height<br>*Hauteur*<br>32 mm | Height<br>*Hauteur*<br>50 mm | Height<br>*Hauteur*<br>75 mm | Height<br>*Hauteur*<br>100 mm | Height<br>*Hauteur*<br>130 mm |
|---|---|---|---|---|---|
| **Dimensions: 136 x 136 mm** | | **Water repellent /** ***Imprégné*** | | | |
| ○ | **5.486.000** | **5.486.005** | **5.486.010** | **5.486.015** | **5.486.020** |
| ● | **5.486.001** | **5.486.006** | **5.486.011** | **5.486.016** | **5.486.021** |
| ● | **5.486.002** | **5.486.007** | **5.486.012** | **5.486.017** | **5.486.022** |
| ● | **5.486.003** | **5.486.008** | **5.486.013** | **5.486.018** | **5.486.023** |
| ● | **5.486.004** | **5.486.009** | **5.486.014** | **5.486.019** | **5.486.024** |
| **Dimensions: 136 x 136 mm** | | **Plastic coated /** ***plastifié*** | | | |
| ○ | **5.486.025** | **5.486.030** | **5.486.035** | **5.486.040** | **5.486.045** |
| ● | **5.486.026** | **5.486.031** | **5.486.036** | **5.486.041** | **5.486.046** |
| ● | **5.486.027** | **5.486.032** | **5.486.037** | **5.486.042** | **5.486.047** |
| ● | **5.486.028** | **5.486.033** | **5.486.038** | **5.486.043** | **5.486.048** |
| ● | **5.486.029** | **5.486.034** | **5.486.039** | **5.486.044** | **5.486.049** |
| **Dimensions: 133 x 133 mm** | | **Water repellent /** ***Imprégné*** | | | |
| ○ | **5.486.050** | **5.486.055** | **5.486.060** | **5.486.065** | **5.486.070** |
| ● | **5.486.051** | **5.486.056** | **5.486.061** | **5.486.066** | **5.486.071** |
| ● | **5.486.052** | **5.486.057** | **5.486.062** | **5.486.067** | **5.486.072** |
| ● | **5.486.053** | **5.486.058** | **5.486.063** | **5.486.068** | **5.486.073** |
| ● | **5.486.054** | **5.486.059** | **5.486.064** | **5.486.069** | **5.486.074** |
| **Dimensions: 133 x 133 mm** | | **Plastic coated /** ***plastifié*** | | | |
| ○ | **5.486.075** | **5.486.080** | **5.486.085** | **5.486.090** | **5.486.095** |
| ● | **5.486.076** | **5.486.081** | **5.486.086** | **5.486.091** | **5.486.096** |
| ● | **5.486.077** | **5.486.082** | **5.486.087** | **5.486.092** | **5.486.097** |
| ● | **5.486.078** | **5.486.083** | **5.486.088** | **5.486.093** | **5.486.098** |
| ● | **5.486.079** | **5.486.084** | **5.486.089** | **5.486.094** | **5.486.099** |



**5.486.000**

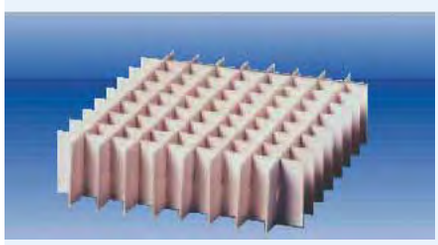


**5.486.028**

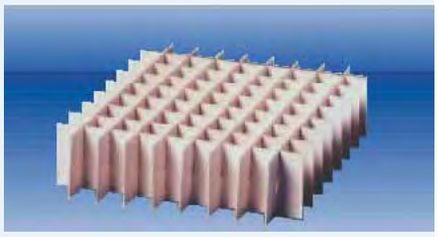
**Grid inserts for Cryo Boxes**
made of ultra low temperature resistant cardboard water-repellent.
Standard pack of 10 pcs.

***Séparateurs pour cryoboites***
*en carton imprégné pour cryoboites à haute résistance thermique, livrés en paquet de 10*

| Height<br>*Hauteur*<br>mm | For boxes<br>*Pour boites*<br>mm | Grids<br>*Séparateur*<br>4 x 4 | Grids<br>*Séparateur*<br>5 x 5 | Grids<br>*Séparateur*<br>6 x 6 | Grids<br>*Séparateur*<br>7 x 7 |
|---|---|---|---|---|---|
| 25 | 136 x 136 | **5.486.100** | **5.486.105** | **5.486.110** | **5.486.115** |
| 30 | 136 x 136 | **5.486.101** | **5.486.106** | **5.486.111** | **5.486.116** |
| 40 | 136 x 136 | **5.486.102** | **5.486.107** | **5.486.112** | **5.486.117** |
| 65 | 136 x 136 | **5.486.103** | **5.486.108** | **5.486.113** | **5.486.118** |
| 25 | 133 x 133 | **5.486.120** | **5.486.125** | **5.486.130** | **5.486.135** |
| 30 | 133 x 133 | **5.486.121** | **5.486.126** | **5.486.131** | **5.486.136** |
| 40 | 133 x 133 | **5.486.122** | **5.486.127** | **5.486.132** | **5.486.137** |
| 65 | 133 x 133 | **5.486.123** | **5.486.128** | **5.486.133** | **5.486.138** |



**5.486.1****



5.486.1**

**Grid inserts for Cryo Boxes**
made of ultra low temperature resistant cardboard water-repellent.
Standard pack of 10

***Séparateurs pour cryoboites***
*en carton imprégné pour cryoboites à haute résistance thermique, livrés en paquet de 10*

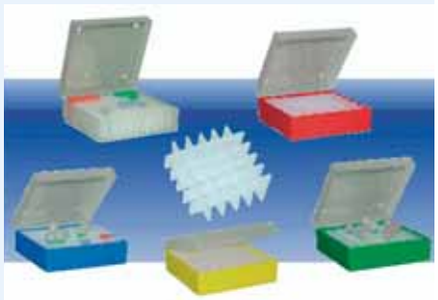
| Height<br>*Hauteur*<br>mm | For boxes<br>*Pour boites*<br>mm | Grids<br>*Séparateur*<br>8 x 8 | Grids<br>*Séparateur*<br>9 x 9 | Grids<br>*Séparateur*<br>10 x 10 | Grids<br>*Séparateur*<br>12x 12 |
|---|---|---|---|---|---|
| 25 | 136 x 136 | **5.486.140** | **5.486.145** | **5.486.150** | **5.486.155** |
| 30 | 136 x 136 | **5.486.141** | **5.486.146** | **5.486.151** | **5.486.156** |
| 40 | 136 x 136 | **5.486.142** | **5.486.147** | **5.486.152** | **5.486.157** |
| 65 | 136 x 136 | **5.486.143** | **5.486.148** | **5.486.153** | **5.486.158** |
| | | | | | |
| 25 | 133 x 133 | **5.486.160** | **5.486.165** | **5.486.170** | **5.486.175** |
| 30 | 133 x 133 | **5.486.161** | **5.486.166** | **5.486.171** | **5.486.176** |
| 40 | 133 x 133 | **5.486.162** | **5.486.167** | **5.486.172** | **5.486.177** |
| 65 | 133 x 133 | **5.486.163** | **5.486.168** | **5.486.173** | **5.486.178** |

| Height<br>*Hauteur*<br>mm | For boxes<br>*Pour boites*<br>mm | Grids<br>*Séparateur*<br>13 x 13 | Grids<br>*Séparateur*<br>14 x 14 | Grids<br>*Séparateur*<br>16x 16 |
|---|---|---|---|---|
| 25 | 136 x 136 | **5.486.180** | **5.486.185** | **5.486.190** |
| 30 | 136 x 136 | **5.486.181** | **5.486.186** | **5.486.191** |
| 40 | 136 x 136 | **5.486.182** | **5.486.187** | **5.486.192** |
| 65 | 136 x 136 | **5.486.183** | **5.486.188** | **5.486.193** |
| | | | | |
| 25 | 133 x 133 | **5.486.195** | **5.486.200** | **5.486.205** |
| 30 | 133 x 133 | **5.486.196** | **5.486.201** | **5.486.206** |
| 40 | 133 x 133 | **5.486.197** | **5.486.202** | **5.486.207** |
| 65 | 133 x 133 | **5.486.198** | **5.486.203** | **5.486.208** |

**Cryo Boxes, without grid insert,**
made of ultra low temperature resistant (-90°C/121°C) Polypropylene (PP) autoclavable with lid and for sample storage. Box can be combined with different grid inserts. Available in several colours. Standard pack of 5 boxes

***Cryoboites, sans séprateur***
*polypropylène résistante aux très basses températures (-90°C/+ 121°C) avec couvercle rabattable pour le stockage d'échantillons et peuvent être complétées avec divers séparateurs. Disponibles en différentes colories. Conditionnement de 5 boites*

| Colour-code<br>*Code-couleur* | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| ○ | 133 x 133 x 52 | **5.486.220** |
| ● | 133 x 133 x 52 | **5.486.221** |
| ● | 133 x 133 x 52 | **5.486.222** |
| ● | 133 x 133 x 52 | **5.486.223** |
| ● | 133 x 133 x 52 | **5.486.224** |
| | | |
| ○ | 133 x 133 x 75 | **5.486.225** |
| ● | 133 x 133 x 75 | **5.486.226** |
| ● | 133 x 133 x 75 | **5.486.227** |
| ● | 133 x 133 x 75 | **5.486.228** |
| ● | 133 x 133 x 75 | **5.486.229** |



5.486.22*
-
5.486.23*

**Grid inserts for Cryo Boxes**
made of ultra low temperature resistant Polypropylen (PP).
Standard pack of 1 piece

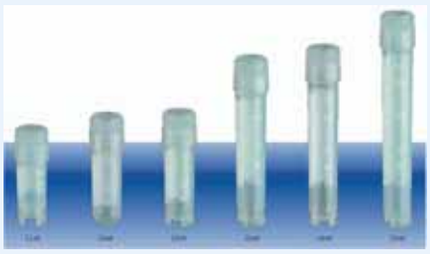
***Séparateurs pour cryoboites***
*en polypropylène (PP) à haute résistance thermique, livrés par unité*

| Grids<br>*Séparateurs*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 x 6 | 133 x 133 x 30 | **5.486.230** |
| 7 x 7 | 133 x 133 x 30 | **5.486.231** |
| 8 x 8 | 133 x 133 x 30 | **5.486.232** |
| 9 x 9 | 133 x 133 x 30 | **5.486.233** |
| 10 x 10 | 133 x 133 x 30 | **5.486.234** |

**Polypropylene cryo tubes with highest translucence**
For the storing and conservation of tissue cultures and biological samples e.g. era, blood and spermata. For applications to –190 °C in the gaseous phase of liquid nitrogen or in freezers.
- pyrogene-free
- DNase, RNase and DNA-free
Conical bottom inside for optimum sample recovery, white label and white graduation, with male thread. Poisitive leakproof screw-cap available in two versions: with intergarted lips without additional sealing ring or with silicone-o-ring sealing. Self standing base. The 2 ml Cryo tubes are also available with round base.
Packed in cardboard boxes with 10 PE-bags x 100 pcs.

***Cryotubes***
*en polypropylene translucide apyrogène stérilisés aux rayons gamma destinés au stockage et à la conservation de matériel biologique en azote liquide jusqu'à -190°C ou en congélateur. Tube avec base à filetage mâle et bouchon rentrant avec joint en silicone ou bouchon coiffant. Zone d'inscription et graduation blanche. Les tubes de 2 ml sont aussi disponibles avec une base ronde. Conditionnement: 10 sachets de 100 pièces*

| **Capacity** *Capacité* ml | **Description** *Description* | **Dimensions** *Dimensions* mm | **Standard Pack** *Conditonnement* pcs. | **Order No.** *N° de code* |
|---|---|---|---|---|
| Cryo Tubes with integrated Lip Sealing | | | | |
| *Cryotubes avec filetage externe à bouchon coiffant* | | | | |
| 1.2 | self standing | 12.5 x 43 | 1000 | **5.486.240** |
| | *avec base* | | | |
| 2.0 | round base | 12.5 x 48 | 1000 | **5.486.241** |
| | *base ronde* | | | |
| 2.0 | self standing | 12.5 x 49 | 1000 | **5.486.242** |
| | *avec base* | | | |
| 3.0 | self standing | 12.5 x 72 | 1000 | **5.486.243** |
| | *avec base* | | | |
| 4.0 | self standing | 12.5 x 78 | 1000 | **5.486.244** |
| | *avec base* | | | |
| 5.0 | self standing | 12.5 x 92 | 1000 | **5.486.245** |
| | *avec base* | | | |
| Cryo Tubes with Silicone O-Ring Sealing | | | | |
| *Cryotubes à filetage interne et bouchon rentrant avec joint en silicone* | | | | |
| 1.2 | self standing | 12.5 x 43 | 1000 | **5.486.250** |
| | *avec base* | | | |
| 2.0 | round base | 12.5 x 48 | 1000 | **5.486.251** |
| | *base ronde* | | | |
| 2.0 | self standing | 12.5 x 49 | 1000 | **5.486.252** |
| | *avec base* | | | |
| 3.0 | self standing | 12.5 x 72 | 1000 | **5.486.253** |
| | *avec base* | | | |
| 4.0 | self standing | 12.5 x 78 | 1000 | **5.486.254** |
| | *avec base* | | | |
| 5.0 | self standing | 12.5 x 92 | 1000 | **5.486.255** |
| | *avec base* | | | |



**5.485.24***

**Standard tissue culture flasks**
All our products are made of PS transparent sterilised with gamma radiation. Sterility is maintained indefinitely as long as the packaging remains unopened and free from visible defect. Factors such as direct sunlight, moisture and large temperature changes can, however, negatively effect this sterility

***Flacons à culture cellulaire***
*Tous les produits sont sterilises aux rayons gamma. La stérilité est maintenue indéfiniment tant que l'emballage reste fermé et protégé contre les effets solaires, d'humidité et des grandes variations de température*



**Standard tissue culture flasks**
Graduated made of Polystyrene (PS). Access with pipettes and scrapers right into the corners is another characteristic of this tissue culture flasks. The 75 and 300 $cm^2$ types have writing areas on both side surfaces and thus also offer left-handed users a user-friendly article. Stoppers are to be ordered separately

***Flacons à culture cellulaire***
*Gradués en polystyrène (PS) haute transparence, à forme totalement accessible aux pipettes et grattoirs. Les versions à surface de culture 75 et 300 $cm^2$ ont des surfaces à écrire sur les deux faces. Les bouchons sont à commander séparément*



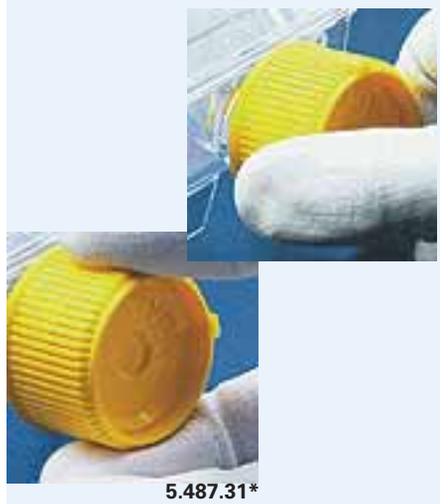
**5.487.3****

| Growth surface<br>*Surface à culture*<br>$cm^2$ | Version<br>*Version* | Capacity<br>*Capacité*<br>ml | Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Paquet standard*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 25 | Vent | 60 | 90 x 50 x 25 | 10 | **5.487.300** |
| 25 | Filter | 60 | 90 x 50 x 25 | 10 | **5.487.301** |
| 75 | Vent | 270 | 150 x 85 x 35 | 5 | **5.487.302** |
| 75 | Filter | 270 | 150 x 85 x 35 | 5 | **5.487.303** |
| 150 | Vent | 690 | 205 x 120 x 45 | 3 | **5.487.304** |
| 150 | Filter | 690 | 205 x 120 x 45 | 3 | **5.487.305** |
| 300 | Vent | 690 | 270 x 170 x 45 | 3 | **5.487.306** |
| 300 | Filter | 690 | 270 x 170 x 45 | 3 | **5.487.307** |

**Screw caps**
made of Polyethylene (PE) for use with tissue culture flasks.
Two versions are available:
- Filter screw caps have a high-grade hydrophobic membrane with a pore size of 0.22 µm.
- The "VENT" marking on the screw cap indicates defined aeration. The clicked-in venting position is clearly seen by means of a slightly raised rectangle found on the highest point on the cap. When the cap is turned through 90° the flask closes and is gas-tight

***Bouchons à visser***
*en polyethylene (PE) pour utilisation avec les flacons de culture.*
*Deux versions au choix :*
- *Bouchons à visser filtrant avec membrane hydrophobe de 0.22 µm qui facilitent les échanges gazeux et évitent les contaminations*
- *Bouchons « Vent » à bayonnette. Lorsque le bouchon est tourné sur 90° le flacon se ferme et est étanche*

| Version<br>*Version* | Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Paquet standard*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Vent 25 | Ø 24 x 16 | 1 | **5.487.310** |
| Filter 25 | Ø 24 x 16 | 1 | **5.487.311** |
| Vent 75 | Ø 33 x 21 | 1 | **5.487.312** |
| Filter 75 | Ø 33 x 21 | 1 | **5.487.313** |
| Vent 150/300 | Ø 38 x 24 | 1 | **5.487.314** |
| Filter 150/300 | Ø 38 x 24 | 1 | **5.487.315** |
| Filter 150/300 | Ø 38 x 24 | 20 | **5.487.316** |



**5.487.31***

**Tissue culture flasks with peel-off foil**
with access to the inside of a flask by removing the multiple layered foil has proven successful over many years.
A re-closure of such a flask is not possible. Pressure tightness of both the foil and re-closable versions with regard to the filling volume is guaranteed. The toxin-free foil can be gripped and pulled off at the given flap with ease. Supplied without screw-caps and must be ordered separately.

***Flacons à culture cellulaire à feuille de plastique à décollage,*** *qui permet d'accéder dans le flacon en retirant la feuille de plastique servant de fermeture. Une refermeture du flacon est impossible. Une étanchéité du flacon est garantie tout comme les flacons à couvercle refermable. Feuille non-toxique apyrogène. Livrés sans bouchons à visser qui sont à commander séparément*

| Growth surface<br>*Surface à culture*<br>$cm^2$ | Lid opening<br>*Overture du cuvercle*<br>mm | Capacity<br>*Capacité*<br>ml | Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Paquet standard*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 115 | 100 x 110 | 200 | 205 x 120 x 45 | 3 | **5.487.320** |
| 150 | 100 x 110 | 200 | 205 x 120 x 45 | 3 | **5.487.321** |



**5.487.32***

**Tissue culture flasks with re-closable lid,** is the latest development of flasks with the unique re-closable lid. The lid is so designed as to allow manual gripping of the flaps. The recess has shown itself to be very useful as a help in lifting a firmly fixed lid using pincers or similar tool with little effort required by the user. The stacking process of several flasks remains the same as with the standard flask. A non-toxic gasket and a unique click-in system allow the lid to be fixed into any desired-position. Supplied without screw-caps and must be ordered separately

***Flacons à culture cellulaire à couvercle refermable,*** *font partis du dernier développement de flacons à couvercle refermable et facile à ouvrir manuellement. La procédure d'empillage de plusieurs flacons et identique aux flacons standards. Un joint non-toxique et un système « Click-in » permettent de fixer le couvercle dans n'importe quelle position souhaitée. . Livrés sans bouchons à visser qui sont à commander séparément*



**5.487.325**

| Growth surface<br>*Surface à culture*<br>cm² | Lid opening<br>*Overture du cuvercle*<br>mm | Capacity<br>*Capacité*<br>ml | Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Paquet standard*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 115 | 105 x 105 | 200 | 205 x 120 x 45 | 3 | **5.487.325** |
| 150 | 105 x 105 | 200 | 205 x 120 x 45 | 3 | **5.487.326** |

**Tissue culture tubes**
made of polystyrene transparent (PS) can complement the use of flasks. Especially the flat tube version offers unique advantages. User requirements led to this product that in practice lies between a centrifuge tube and a tissue culture flask. An optimum access for pipettes or scrapers is made possible by the large opening beneath the screw cap. The tube can be used in a centrifuge without problems because its size allows a standard 50ml adapter to be employed. The tube racks take eight tubes in a secure lying position which offers an optimum horizontal position in a CO2 incubator. Microscopes with basal viewing are specially suited for tissue checking. The sloped and flattened upper side assists in reducing refraction to a minimum. In short, this mini flask is a multi-purpose tissue culture container with very special characteristics. Thanks to a special screw cap, the tube cannot roll away. Regaining a previous position is thus guaranteed

***Tubes de culture cellulaire***
*en polystyrène transparent (PS) sont un complément aux flacons de culture. Plus spécialement la version de tube plat offre des avantages uniques, puisqu'elle se situe entre un tube à centrifuger et un flacon de culture cellulaire. L'accès à la pipette et au grattoir est optimal grâce à la large ouverture du bouchon à visser. Ces tubes peuvent être utilisés en centrifuge sans aucun risques à l'aide d'un adaptateur de 50 ml. Les portoirs admettent 8 tubes posés horizontalement et sécurisés pour l'incubation en $CO_2$. Egalement utilisable en microscopie cellulaire inversée. Par son bouchon spécial en « Vent » ou à membrane filtrante aucun risque de roulement du tube*



**5.487.33***

| Growth surface<br>*Surface à culture*<br>cm² | Version<br>*Versionu* | Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Paquet standard*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 20 | Vent | Ø 16 x 125 | 20 | **5.487.330** |
| 10 | Filter | Ø 30 x 110 | 5 | **5.487.331** |

**Bacteriological Petri dishes**
made of clear Polystyrene (PS), suitable for all bacteriological applications, packed in polyethylene bags

***Boites de Pétri bactériologiques***
*en polystyrène cristal*

| Ø<br>Ø<br>mm | Machine sterile<br>*Aseptique* | Gamma radiation<br>*Ionisation* | with vents<br>*avec ergot de ventilation* | without vents<br>*Forme carée* | Bag<br>*Sachet*<br>pcs. | Packing<br>*Condition-nement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|---|
| 55 | X | | | X | 15 | 1200 | **5.488.001** |
| 55 | X | | X | | 15 | 1200 | **5.488.002** |
| 55 | | X | | X | 15 | 1200 | **5.488.003** |
| 55 | | X | X | | 15 | 1200 | **5.488.004** |
| 90 | X | | | X | 15 | 600 | **5.488.011** |
| 90 | X | | X | | 15 | 600 | **5.488.012** |
| 90 | | X | | X | 15 | 600 | **5.488.013** |
| 90 | | X | X | | 15 | 600 | **5.488.014** |
| 100 | X | | | X | 15 | 600 | **5.488.021** |
| 100 | X | | X | | 15 | 600 | **5.488.022** |
| 100 | | X | | X | 15 | 600 | **5.488.023** |
| 100 | | X | X | | 15 | 600 | **5.488.024** |
| 100 | X | | | X | 6 | 144 | **5.488.031** |
| 100 | | X | | X | 6 | 144 | **5.488.032** |
| **Square** | | | | | | | |
| 120 | X | | X | | 10 | 300 | **5.488.041** |
| 120 | | X | X | | 10 | 300 | **5.488.042** |



**5.488.*** - 5.488.2****

**Petri dishes with compartments**
made of clear Polystyrene, with vents, machine sterile

***Boites à cultures de Pétri*** *à compartiments, en polystyrène cristal aspetique avec couvercle à ergots de ventilation*

| Ø<br>Ø<br>mm | Compartments | Bag<br>*Sachet*<br>pcs. | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 90 | 2 | 25 | 600 | **5.488.201** |
| 90 | 3 | 25 | 600 | **5.488.202** |
| 90 | 4 | 25 | 600 | **5.488.203** |

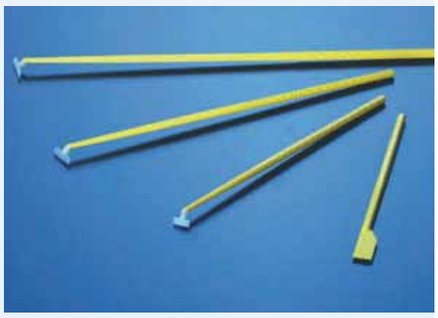
**Tissue culture dishes,** made of polystyrene (PS) with clock-numbering system (3, 6, 9 and 12) inlaid into the base of the dish allows the identification and documentation of zones. Having a marking surface on the side of the lid as well as internal cams for constant aeration rounds off this product. Steril gamma radiation

***Boites de culture de tissues,*** *en polystyrene (PS) stérile à radiation gamma équipées d'un système horaire numéroté (3-6-9 et 12) sous la base qui permet d'identification et la documentation des zones et d'une surface à écrire sur le côté ainsi que des systèmes intérieurs d'aération*

| Growth surface<br>*Surface à culture*<br>cm² | Dimensions<br>*Dimensions*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 9.2 | Ø 40 x 11 | 900 | **5.488.210** |
| 22.1 | Ø 60 x 16 | 840 | **5.488.211** |
| 60.1 | Ø 96 x 21 | 240 | **5.488.212** |
| 147.8 | Ø 146 x 21 | 100 | **5.488.213** |



**5.488.21***



**5.488.22***

**Cell scrapers**
made from a specially soft and flexible polyethylene material. Changes in blade angle requires slight pressure on the handle using the forefinger while a slight rotation of the handle will then cause the blade to twist to another direction. The tissue scraper is delivered in a practical blister package within the reliable cardboard dispenser box

***Grattoirs pour culture cellulaire***
*à lame pivotante en polyéthylène souple et flexible à changement d'angle par simple pression du doigt sur le manche. Emballage individuel en blister dans une boite en carton de distribution*

| Length<br>*Longueur*<br>mm | Width<br>*Largeur*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 240 | 13 | 150 | **5.488.220** |
| 300 | 20 | 150 | **5.488.221** |
| 380 | 25 | 100 | **5.488.221** |

**Cell spatulas**
made from a specially soft and flexible polyethylene material they are used mainly in large dishes or with flasks having either re-closable lids or tear-off foils. There are, of course, a myriad of, to us unknown, further uses in the laboratory. An important application will certainly rely upon the specially formed tip which has a sharp, pointed edge. The tissue spatula is delivered in a practical blister package within the reliable cardboard dispenser box

***Spatules à culture cellulaire***
*en polyéthylène souple et flexible elles sont utilisés principalement dans de grandes récipients ou flacons à culture ayant un couvercle refermable ou une feuille de fermeture décollable. Emballage individuel en blister dans une boite en carton de distribution*

| Length<br>*Longueur*<br>mm | Width<br>*Largeur*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 195 | 14 | 150 | **5.488.225** |



**5.488.3****

**Autoclavable Bags,** made of Polypropylene (PP) for disposing of Petri dishes, culture media, tubes etc.
Autoclavable during 30 min. at 121 °C

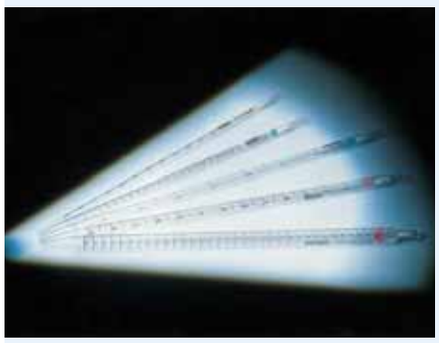
***Sachets autoclavables*** *en polypropylène (PP) pour boites de Pétri, flacons ou tubes à cultures etc., stérilisables jusqu'à 121°C durant 30 minutes*

| Capacity<br>*Capacité*<br>l | Dimensions<br>*Dimensions*<br>mm | Bag<br>*Sachet* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code*<br>pcs. |
|---|---|---|---|---|
| 3 | 250 x 400 | 100 | 500 | **5.488.301** |
| 14 | 400 x 600 | 100 | 500 | **5.488.302** |
| 32 | 550 x 780 | 100 | 500 | **5.488.303** |
| 3 | 255 x 400 | 100 | 500 | **5.488.304** |
| 21 | 400 x 780 | 100 | 500 | **5.488.305** |

**Disposable pipettes,** made of non cytotoxical crystal polystyrene. Gamma sterile. With cotton plug. Peel-pack bags for individual sterile pipettes. Graduation for 1, 2, 5 and 10 ml pipettes, with color-code.

***Pipettes** en polystyrène cristal stériles par radiation avec arrêt de sécurité par un embout cotonné, code couleur et graduation*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Description | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code*<br>pcs. |
|---|---|---|---|---|
| 1 | 0.01 | Indiv. packed<br>*emballage individuel* | 1000 | **5.489.101** |
| 1 | 0.01 | Bag of 25 pcs.<br>*Sachet de 25 pcs.* | 1000 | **5.489.102** |
| 2 | 0.01 | Indiv. packed<br>*emballage individuel* | 1000 | **5.489.111** |
| 2 | 0.01 | Bag of 25 pcs.<br>*Sachet de 25 pcs.* | 1000 | **5.489.112** |
| 5 | 0.1 | Indiv. packed<br>*emballage individuel* | 500 | **5.489.121** |
| 5 | 0.1 | Bag of 25 pcs.<br>*Sachet de 25 pcs.* | 750 | **5.489.122** |
| 5 | 0.1 | Bulk, non sterile<br>*En vrac, non stérile* | 500 | **5.489.123** |
| 10 | 0.1 | Indiv. packed<br>*emballage individuel* | 500 | **5.489.131** |
| 10 | 0.1 | Bag of 25 pcs.<br>*Sachet de 25 pcs.* | 500 | **5.489.132** |
| 10 | 0.1 | Bulk, non sterile<br>*En vrac, non stérile* | 500 | **5.489.133** |
| 25 | 0.1 | Indiv. packed<br>*emballage individuel* | 200 | **5.489.141** |

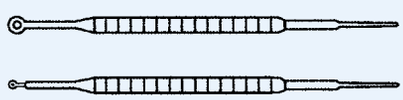


**5.489.*****

**Disposable inoculating loops,** made of Polystyrene, for all bacteriological routine works, hybridome control a.s.o. 10 pieces per peel-pack bag.

***Anses d'ensemencement à usage unique** en polystyrène pour travaux bactériologiques et de routine, conditionnement de 10 pcs dans sachet*

| Capacity<br>*Capacité*<br>µl | | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | | 3000 | **5.489.401** |
| 1 | separate packed<br>*emballage individuel* | 900 | **5.489.401E** |
| 10 | | 3000 | **5.489.410** |



**5.489.4****



5.489.42*

**Inoculating Loops, Needles, Spatulas,** disposable, made of colored plastic gamma sterile an individually packed

***Anses d'ensemencement, Aiguilles et Spatules*** *à usage unique en platique coloré, stériles aux rayons gamma et emballage individuel*

| **Product** *Produit* | **Color** *Couleur* | **Packing** *Conditionnement* pcs. | **Order No.** *N° de code* |
|---|---|---|---|
| 1 µl Inoculating loops *Anses d'ecemencement de 1 µl* | ● | 2000 | **5.489.420** |
| 1 µl Inoculating loops *Anses d'ecemencement de 1 µl* | ● | 4000 | **5.489.421** |
| 1 µl Inoculating loops *Anses d'ecemencement de 10 µl* | ● | 2000 | **5.489.422** |
| 1 µl Inoculating loops *Anses d'ecemencement de 10 µl* | ● | 4000 | **5.489.423** |
| Inoculating needles *Aiguilles d'ecemencement* | ● | 4000 | **5.489.424** |
| Spatulas *Spatules* | ● | 1000 | **5.489.425** |



5.490.***

**Microtitration plates,** made of Polystyrene (PS), with frosted writing area, cross contamination is preventable. Dimensions 128 x 86 mm

***Plaques de microtitration*** *en polystyrène cristal de 128 x 86 mm, avec surface à écrire*

| **Deepening** *Cavités* | **Bottom** *Forme des cavités* | **Lid** *Couvercle* | **Carton** *Conditionnement* pcs. | **Order No.** *N° de code* |
|---|---|---|---|---|
| 24 | | X | 100 | **5.490.101** |
| **Tissue culture, capacity 400 µl** | | | | |
| 96 | flat / *Fond plat* | X | 100 | **5.490.102** |
| **for serology** | | | | |
| 96 | round / *Fond en U* | | 100 | **5.490.201** |
| 96 | conical / *Fond en V* | | 100 | **5.490.202** |
| **For ELISA, Luxion - UNIVERSAL - Superior optical clarity, with anti reflection top surface Order No. 5.490.304 and 306 are special treated for absorbtion of molecules** *Plaques de microtitration Elisa très transparent de haute qualité optique* | | | | |
| 96 | flat / *Fond plat* | | 100 | **5.490.300** |
| 96 | round / *Fond en U* | | 100 | **5.490.301** |
| 96 | conical / *Fond en V* | | 100 | **5.490.303** |
| 96 | flat / *Fond plat* | | 100 | **5.490.304** |
| 96 | round / *Fond en U* | | 100 | **5.490.305** |
| 96 | conical / *Fond en V* | | 100 | **5.490.306** |
| **Lids for microtest plates** *Couvercles pour plaques de microtitration* | | | | |
| Sterile / *Stériles* | | | 200 | **5.490.401** |
| Non sterile / *Non-stériles* | | | 100 | **5.490.402** |
| **Adhesive tape for microtest plates to prevent from evaporation** *Bande adhésive pour plaques de microtitration, évite les évaporations* | | | | |
| | | | 100 | **5.490.500** |



**Analytical cups,** for use on automatic analyzers, made of polystyrene (PS)

***Godets,*** *en polystyrene (PS) pour utilisation sur des autoanalyseurs*

| **Capacity** *Capacité* ml | **Product for** *Produuit pour* | **Packing** *Conditionnement* pcs. | **Order No.** *N° de code* |
|---|---|---|---|
| 2.0 | Technicon I | 1000 | **5.491.000** |
| 3.5 | Technicon II | 1000 | **5.491.001** |
| 0.5 | Gemsaec G1 | 1000 | **5.491.002** |
| 3.0 | Hitachi H1I | 1000 | **5.491.003** |
| 1.5 | KodakI | 1000 | **5.491.004** |
| 2.0 | Flame Photometer | 1000 | **5.491.005** |

**Sample containers for Coulter and Hycel cell counters,** made of Polystyrene (PS)

***Cuvettes à échantillon pour Coulter et Hycel compteur de cellules,*** *en polystyrene (PS)*

| Capacity<br>*Capacité*<br>ml | Type<br>*Type* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | with lid | 1000 | **5.491.010** |
| 25 | without lid | 1000 | **5.491.011** |
| **Accessories/***Accessoires* | | | |
| Lids for cell container | | 1000 | **5.491.015** |



**5.491.*****

**Sample containers for cell counter systems AI and Linson or others,** using cylindrical containers, made of polystyrene (PS)

***Cuvettes à échantillon pour compteurs de cellules type AI et Linson ou autres,*** *à cuves cylindiques, en polystyrene (PS)*

| Capacity<br>*Capacité*<br>ml | Type<br>*Type* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 20 | with lid | 1000 | **5.491.020** |
| 20 | without lid | 1000 | **5.491.021** |
| 13 | with lid | 1000 | **5.491.025** |
| 13 | without lid | 1000 | **5.491.026** |
| **Accessories/***Accessoires* | | | |
| Lids for cell container with 20 ml capacity | | 1000 | **5.491.030** |
| Lids for cell container with 13 ml capacity | | 1000 | **5.491.035** |



**5.491.01***
**-**
**5.491.03***

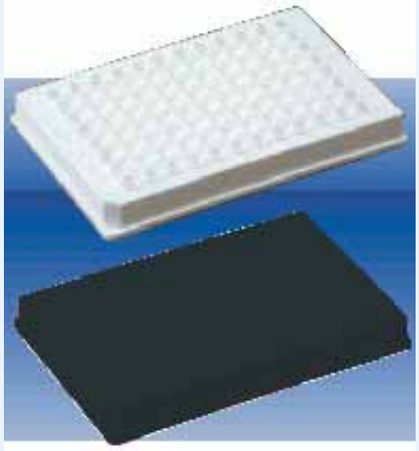
**96-Well micro plates**
made of clear polystyrene (PS) or made of polypropylene (PP) available with U-, F-, or V-shaped bottom, 8 x 12 wells alphanumerically coded. Polypropylene plates can be sealed with heat sealing films without deformation. Sterile or non-sterile

***Microplaques à 96 puits***
*en polystyrène transparente (PS) ou en polypropylène (PP) disponibles avec fond en U-, en F ou en Vé, 8 x 12 puits avec identification alphanumérique. Les plaques en PP supportent des températures de -80 à +80°C et peuvent être scellées par un film chaud sans déformation. Stériles ou non-stériles*

| Bottom<br>*Fond* | Material<br>*Matèrie* | Sterile<br>*Stérile* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| U | PS | - | 1 x 100 | **5.492.000** |
| U | PS | - | 10 x 10 | **5.492.001** |
| U | PS | - | 100 x 1 | **5.492.002** |
| U | PS | X | 100 x 1 | **5.492.003** |
| U | PP | - | 1 x 100 | **5.492.010** |
| U | PP | - | 10 x 10 | **5.492.011** |
| U | PP | - | 100 x 1 | **5.492.012** |
| U | PP | X | 100 x 1 | **5.492.013** |
| F | PS | - | 1 x 100 | **5.492.020** |
| F | PS | - | 10 x 10 | **5.492.021** |
| F | PS | - | 100 x 1 | **5.492.022** |
| F | PS | X | 100 x 1 | **5.492.023** |
| F | PP | - | 1 x 100 | **5.492.030** |
| F | PP | - | 10 x 10 | **5.492.031** |
| F | PP | - | 100 x 1 | **5.492.032** |
| F | PP | X | 100 x 1 | **5.492.033** |
| V | PS | - | 1 x 100 | **5.492.040** |
| V | PS | - | 10 x 10 | **5.492.041** |
| V | PS | - | 100 x 1 | **5.492.042** |
| V | PS | X | 100 x 1 | **5.492.043** |
| V | PP | - | 1 x 100 | **5.492.050** |
| V | PP | - | 10 x 10 | **5.492.051** |
| V | PP | - | 100 x 1 | **5.492.052** |
| V | PP | X | 100 x 1 | **5.492.053** |



**5.492.*****



5.492.06*

**96-Well Luminescence micro plates**
made of polypropylene (PP) white or black with U-shaped bottom, 8 x 12 wells alphanumerically coded, non-sterile

***Microplaques de luminescence à 96 puits,***
*en polypropylène (PP) blanche ou noire avec fond en U, 8 x 12 puits avec identification alphanumérique, non-stériles*

| Color<br>*Couleur* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| white/*blanc* | 1 x 100 | **5.492.060** |
| black/*noir* | 1 x 100 | **5.492.061** |



5.492.07*

**384-Well micro plates**
made of clear Polystyrene (PS) or made of Polypropylene (PP) available with F-shaped bottom, 16 x 24 wells alphanumerically coded. Polypropylene plates can be sealed with heat sealing films without deformation. Non-sterile

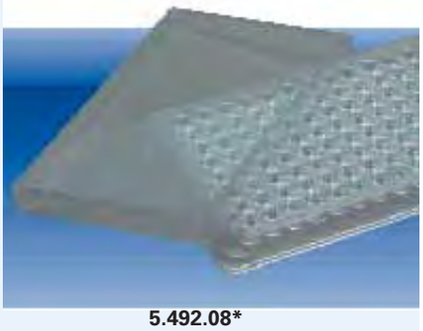
***Microplaques à 384 puits***
*en polystyrène transparente (PS) ou en polypropylène (PP) avec fond en F , 16 x 24 puits avec identification alphanumérique. Les plaques en PP supportent des températures de -80 à +80°C et peuvent être scellées par un film chaud sans déformation. Non-stériles*

| Bottom<br>*Fond* | Material<br>*Matèrie* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| F | PS | 1 x 100 | **5.492.070** |
| F | PP | 1 x 24 | **5.492.071** |

**Lids for micro plates**
made of clear polystyrene (PS) or made of Polypropylene (PP), sterile or non-sterile

***Couvercles pour microplaques***
*en polystyrène transparente (PS) ou en polypropylène (PP), stériles ou non-stériles*

| Material<br>*Matèrie* | Sterile<br>*Stérile* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| PS | - | 1 x 100 | **5.492.080** |
| PS | - | 10 x 10 | **5.492.081** |
| PS | - | 100 x 1 | **5.492.082** |
| PS | X | 100 x 1 | **5.492.083** |
| | | | |
| PP | - | 1 x 100 | **5.492.090** |
| PP | - | 10 x 10 | **5.492.091** |
| PP | - | 100 x 1 | **5.492.092** |
| PP | X | 100 x 1 | **5.492.093** |



5.492.08*

**96-Weel deep blocks**
made of clear Polypropylene (PP) autoclavable at 121 °C, 8 x 12 wells alphanumerically coded. Micro plate format

***Plaques de stockage Deepwell à 96 puits,***
*format microplaque, en polypropylène transparente (PP) autoclavable à 121 °C, 8 x 12 puits avec identification alphanumérique*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 0.3 | 1 x 100 | **5.492.100** |
| 96 x 0.65 | 1 x 50 | **5.492.101** |
| 96 x 1.2 | 1 x 50 | **5.492.102** |
| 96 x 2.2 | 1 x 50 | **5.492.103** |



5.492.1**

**Closures for 96-Weel deep blocks**
for air-tight closure, made of translucend Polyethylene (PE) suitable for volumes of 0.65 – 1.2 and 2.2 ml

***Plaques de stockage Deepwell à 96 puits,***
*format microplaque, en polypropylène ransparente (PP) autoclavable à 121 °C, 8 x 12 puits avec identification alphanumérique*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 0.3 | 1 x 100 | **5.492.100** |
| 96 x 0.65 | 1 x 50 | **5.492.101** |
| 96 x 1.2 | 1 x 50 | **5.492.102** |
| 96 x 2.2 | 1 x 50 | **5.492.103** |



**5.492.1****

**Closures for 96-Weel deep blocks**
for air-tight closure, made of translucend Polyethylene (PE) suitable for volumes of 0.65 – 1.2 and 2.2 ml

***Couvercles pour plaques de stockage à 96 puits,***
*en polyéthylène translucide (PE) pour étanchéité à l'air, à utiliser pour les volumes de 0.65 – 1.2 et 2.2 ml*

| | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 10 x 10 | **5.492.110** |

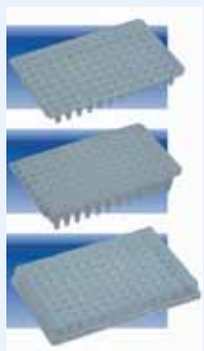


**5.492.11***

**96-Well PCR micro plates**
made of clear Polystyrene (PS), 8 x 12 wells of 0.2 ml alphanumerically coded. Three types available for different PCR systems and four different closures

***Microplaques à 96 puits pour PCR***
*en polystyrène transparente (PS), 8x12 puits de 0.2 ml avec identification alphanumérique. Trois types disponibles pour divers systèmes PCR et quatre différentes fermetures*

| Description<br>*Description* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Without rim, low form / *Sans bordure, forme basse* | 10 x 10 | **5.492.120** |
| Without rim, high form / *Sans bordure, forme haute* | 10 x 10 | **5.492.121** |
| With rim, high form / *Avec bordure, forme haute* | 10 x 10 | **5.492.122** |



**5.492.12***

**384-Well PCR micro plates**
made of clear Polystyrene (PS), 16 x 24 wells of 30 µl alphanumerically coded. Three different closures available

***Microplaques à 96 puits pour PCR***
*en polystyrène transparente (PS), 16 x 24 puits de 30µl avec identification alphanumérique. Trois types de fermetures disponibles*

| Description<br>*Description* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Without rim, low form / *Sans bordure, forme basse* | 10 x 10 | **5.492.130** |

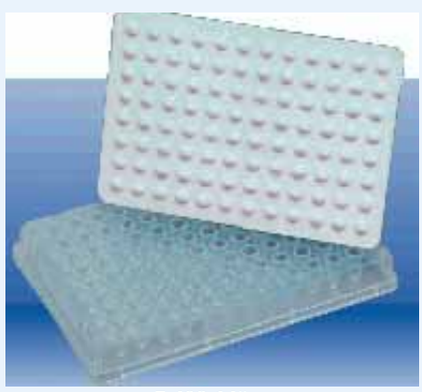


**5.492.13***

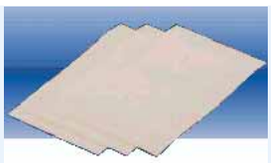
**Closures for PCR Plates**

***Fermetures pour plaques PCR***

| Description<br>*Description* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Cover mats, made of silcone | 5 | **5.492.140** |
| *Couvercle rigide, en silicone* | | |
| Cover films, self-adhesive, PP | 100 | **5.492.141** |
| *Films adhésifs de fermeture en PP* | | |
| Cover films, self-adhesive, soft PVC | 100 | **5.492.142** |
| *Films adhésifs de fermeture en PVC souple* | | |
| Cover films, self-adhesive, aluminium | 100 | **5.492.143** |
| *Films adhésifs de fermeture en aluminium* | | |



**5.492.14***



5.492.150



5.492.151



5.492.152

**Cover films for Micro Test and PCR plates,** self-adhesive, resistant from - 80 / + 120 °C (except PE material), for manual operation

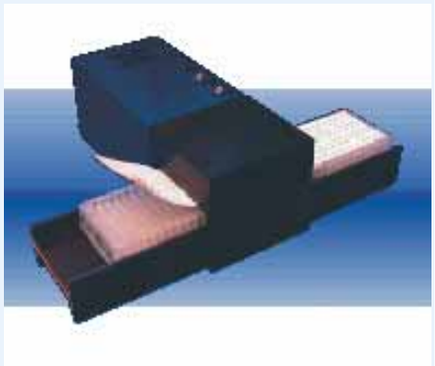
***Films de fermetures adhésifs pour microplaques et plaques PCR,*** *résistant de -80 / +120 °C (sauf version en PE), pour tavaux manuels*

| Material<br>*Matière* | Description<br>*Description* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| PE | Cover film for PS plates, ideal for storage of plates at room temperature<br>*Film pour plaques en PS et pour le stockage à temperature ambiante* | 100 | **5.492.150** |
| Aluminium | Universal film for use with PS or PP plates and ideal for piercing<br>*Film universel pour plaques en PS ou en PP et idéal pour la perforation* | Roll of 100<br>*Rouleau de 100* | **5.492.151** |
| PP | Film for use with PS or PP plates and ideal for PCR plates until 276 nm<br>*Film pour plaques en PS ou en PP et idéal pour plaques PCR jusqu'à 276 nm* | 100 | **5.492.152** |
| | Film dispenser<br>*Distributeur de film* | 1 | **5.492.153** |

**Sealing instrument for cover mats** electrically operated for the sealing of micro plates and cassette systems with cover mats, 230V-50Hz

***Appareil de fermeture des couvercles rigides,*** *sur des microplaques et des systèmes à cassette, alimentation électrique 230V-50Hz*

| | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 1 | **5.492.160** |

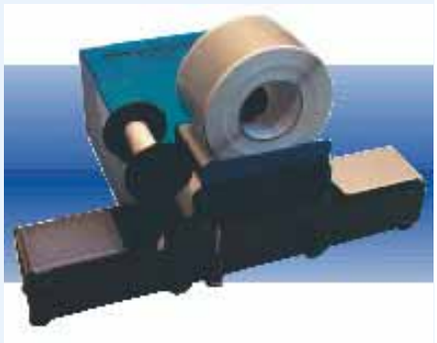


5.492.16*

**Cover film sealing instrument** semi-automatic electrically operated for the sealing of micro test plates, fast operation, seals a single plate within 4 seconds with a film made of PE or PP or aluminium. 230V-50Hz

***Appareil de soudage pour films*** *semi-automatique destiné à la fermeture rapide d'une microplaque en moins de 4 secondes à l'aide d'un film en plastique ou aluminum. 230V-50Hz*

| Description<br>*Description* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Sealing instrument<br>*Appareil de soudage des films* | 1 | **5.492.170** |
| **Accessories/***Accessoires* | | |
| Cleaning spray for sealer<br>*Spray de nettoyage pour appareil de soudage* | 1 | **5.492.171** |
| Aluminium piercing cover film<br>*Film d'aluminium pour percage* | Roll of 12.5 m | **5.492.172** |
| Aluminium peeling cover film for sealer<br>*Film d'aluminium à décoller pour app. de soudage* | Roll of 12.5 m | **5.492.173** |
| Aluminium peeling cover film<br>*Film d'aluminium à décoller* | Roll of 100 m | **5.492.174** |
| Aluminium peeling and piercing cover film<br>*Film d'aluminium pour décollage et percage* | Roll of 100 m | **5.492.175** |
| PE peeling cover film<br>*Film en PE à décoller* | Roll of 100 m | **5.492.176** |
| PP peeling cover film<br>*Film en PP à décoller* | Roll of 100 m | **5.492.177** |



5.492.17*

**Micro-tubes**
made of Polypropylene (PP) available as individual micro-tubes or micro-tubes-strips of 8 tubes for use with micro-racks

***Micro-tubes,*** *en polypropylène (PP) disponibles par piéces ou sur bandalettes de 8 tubes*

| Description<br>*Description* | Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Individual, round bottom<br>*Individuels, fond rond* | 0.65 | 5000 | **5.492.180** |
| Individual, flat bottom<br>*Individuels, fond plat* | 0.65 | 5000 | **5.492.181** |
| Strips, round bottom<br>*En bandelette, fond rond* | 0.65 | 600 | **5.492.182** |
| Strips, flat bottom<br>*En bandelette, fond plat* | 0.65 | 600 | **5.492.183** |
| Individual, round bottom<br>*Individuels, fond rond* | 1.2 | 5000 | **5.492.184** |
| Individual, flat bottom<br>*Individuels, fond plat* | 1.2 | 5000 | **5.492.185** |
| Strips, round bottom<br>*En bandelette, fond rond* | 1.2 | 600 | **5.492.186** |
| Strips, flat bottom<br>*En bandelette, fond plat* | 1.2 | 600 | **5.492.187** |



**5.492.18***

**Micro-racks**
empty or loaded with 96 coded or non coded micro-tubes, tray and lid made of translucent Polypropylene (PP), stackable for the use with stacker instruments

***Micro-racks***
*vides ou chargés avec 96 micro-tubes codés ou non-codés, en polypropylène (PP) translucide avec couvercle, utilisés sur les instruments de chargement*

| Description<br>*Description* | Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Loaded, non coded, round bottom<br>*Chargés et non-codés, fond rond* | 0.65 | 50 | **5.492.190** |
| Loaded, non coded, flat bottom<br>*Chargés et non-codés, fond plat* | 0.65 | 50 | **5.492.191** |
| Loaded, coded, round bottom<br>*Chargés et codés, fond rond* | 0.65 | 50 | **5.492.192** |
| Loaded, coded, flat bottom<br>*Chargés et codés, fond plat* | 0.65 | 50 | **5.492.193** |
| Micro-racks, empty<br>*Micro-racks, vides* | 0.65 | 50 | 5.492.194 |
| Loaded, non coded, round bottom<br>*Chargés et non-codés, fond rond* | 1.2 | 50 | **5.492.190** |
| Loaded, non coded, flat bottom<br>*Chargés et non-codés, fond plat* | 1.2 | 50 | **5.492.191** |
| Loaded, coded, round bottom<br>*Chargés et codés, fond rond* | 1.2 | 50 | **5.492.192** |
| Loaded, coded, flat bottom<br>*Chargés et codés, fond plat* | 1.2 | 50 | **5.492.193** |
| Micro-racks, empty<br>*Micro-racks, vides* | 1.2 | 50 | 5.492.194 |



**5.492.19***



5.492.2**

**Micro-tubes refill-system for micro-racks,** the 96 micro-tubes are placed on an 8 x 12 tray and packed in a friendly cardboard box. The loaded tray can easily be moved from the box into the empty micro-rack

***Système de chargement des micro-tubes dans les micro-racks,*** *les 96 micro-tubes sont placés dans un portoir 8 x12 et sont emballés dans une boite en carton. Le portoir chargé peut être facilement transporté de sa boite dans le micro-rack vide*

| Description<br>*Description* | Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Refill, non coded, round bottom<br>*Chargeur, non-codés, fond rond* | 0.65 | 50 | **5.492.200** |
| Refill, non coded, flat bottom<br>*Chargeur, non-codés, fond plat* | 0.65 | 50 | **5.492.201** |
| Refill, coded, round bottom<br>*Chargeur, codés, fond rond* | 0.65 | 50 | **5.492.202** |
| Refill, coded, flat bottom<br>*Chargeur, codés, fond plat* | 0.65 | 50 | **5.492.203** |
| Refill, non coded, round bottom<br>*Chargeur, non-codés, fond rond* | 1.2 | 50 | **5.492.204** |
| Refill, non coded, flat bottom<br>*Chargeur, non-codés, fond plat* | 1.2 | 50 | **5.492.205** |
| Refill, coded, round bottom<br>*Chargeur, codés, fond rond* | 1.2 | 50 | **5.492.206** |
| Refill, coded, flat bottom<br>*Chargeur, codés, fond plat* | 1.2 | 50 | **5.492.207** |



5.492.21*

**Closures for micro-tubes**
made of translucent Polyethylene (TPE), for air-tight sealing of 0.65 and 1.2 ml micro-tubes. For sampling processes and filling the closures can be pierced with needles

***Couvercles pour micro-tubes***
*en polyéthylène translucide (TPE), étanches à l'air, à utiliser pour des volumes de 0.65 et 1.2 ml. Pour l'échantillonnage en process et au remplissage vu que les couvercles peuvent être percés par une aiguille*

| Description<br>*Description* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 8-caps strips, TPE<br>*Bandelette à 8 capuchons, en PE* | 1000 | **5.492.210** |
| 8 x 12 cover mats, TPE<br>*Plaques de fermenture en PE, 8 x 12* | 50 | **5.492.211** |
| Aluminium universal cover film<br>*Film de fermeture universel, en aluminium* | 100 | **5.492.212** |



5.492.22*

**Cryo-boxes for Micro-racks**
made of white carboard box, water permeable

***Cryo-Boites pour micro-tubes***
*en carton blanc imperméable à l'eau*

| Description<br>*Description* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| For 2 x 2 Micro-racks<br>*Pour 2 x 2 micro-racks* | 10 | **5.492.220** |
| For 1 x 3 Micro-racks<br>*Pour 1 x 3 micro-racks* | 10 | **5.492.221** |



5.503.***

## Beakers
## *Béchers*

**Beakers,** tall form, with handle and spout, made of borosilicate glass

***Béchers avec anse, forme haute à bec,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 500 | 80 | 150 | 2 | **5.503.500** |
| 1000 | 95 | 180 | 2 | **5.503.001** |
| 2000 | 120 | 240 | 2 | **5.503.002** |

**Beakers, low form,** with graduation and spout, DIN 12331, ISO 3819

***Béchers gradués forme basse à bec***

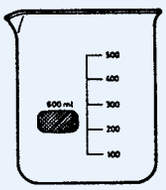
| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Brosilicate glass<br>*verre borosilicaté* | Simax |
|---|---|---|---|---|---|
| 5 | 22 | 30 | 5.500.005 | 5.500.005 B | 5.500.005 S |
| 10 | 26 | 35 | 5.500.010 | 5.500.010 B | 5.500.010 S |
| 25 | 32 | 48 | 5.500.025 | 5.500.025 B | 5.500.025 S |
| 50 | 39 | 55 | 5.500.050 | 5.500.050 B | 5.500.050 S |
| 100 | 51 | 71 | 5.500.100 | 5.500.100 B | 5.500.100 S |
| 150 | 55 | 81 | 5.500.150 | 5.500.150 B | 5.500.150 S |
| 250 | 69 | 95 | 5.500.250 | 5.500.250 B | 5.500.250 S |
| 400 | 82 | 100 | 5.500.400 | 5.500.400 B | 5.500.400 S |
| 600 | 92 | 115 | 5.500.600 | 5.500.600 B | 5.500.600 S |
| 800 | 98 | 136 | 5.500.800 | 5.500.800 B | 5.500.800 S |
| 1000 | 106 | 145 | 5.500.001 | 5.500.001 B | 5.500.001 S |
| 2000 | 132 | 185 | 5.500.002 | 5.500.002 B | 5.500.002 S |
| 3000 | 153 | 210 | 5.500.003 | 5.500.003 B | 5.500.003 S |
| 5000 | 170 | 270 | 5.500.051 | 5.500.051 B | 5.500.051 S |
| 10000 | 217 | 350 | 5.500.110 | 5.500.110 B | 5.500.110 S |

Set of beakers „Midi“, made of Borosilicate glass 3.3, contents 2 x 50 ml, 2 x 100 ml, 2 x 150 ml and 4 x 250 ml — **5.500.525**

*Jeu de béchers "Medi", verre borosilicaté, 2 x 50 ml, 2 x 100 ml, 2 x 150 ml, 4 x 250 ml*

Set of beakers „Maxi“, made of Borosilicate glass 3.3, contents 2 x 400 ml, 4 x 600 ml and 4 x 1000 ml — **5.500.599**

*Jeu de béchers "Maxi", verre borosilicaté, 2 x 400 ml, 4 x 600 ml, 4 x 1000 ml*



**5.500.*****

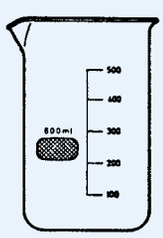


**5.500.525**

**Beakers, tall form,** made of borosilicate glass, with graduation and spout, DIN 12331, ISO 3819

***Béchers gradués forme haute à bec,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Brosilicate glass<br>*verre borosilicaté* | Simax |
|---|---|---|---|---|---|
| 25 | | | 5.502.025 | 5.502.025 B | 5.502.025 S |
| 50 | 38 | 66 | 5.502.050 | 5.502.050 B | 5.502.050 S |
| 100 | 47 | 80 | 5.502.100 | 5.502.100 B | 5.502.100 S |
| 150 | 53 | 96 | 5.502.150 | 5.502.150 B | 5.502.150 S |
| 250 | 61 | 117 | 5.502.250 | 5.502.250 B | 5.502.250 S |
| 400 | 70 | 130 | 5.502.400 | 5.502.400 B | 5.502.400 S |
| 600 | 82 | 143 | 5.502.600 | 5.502.600 B | 5.502.600 S |
| 800 | 89 | 171 | 5.502.800 | 5.502.800 B | 5.502.800 S |
| 1000 | 95 | 185 | 5.502.001 | 5.502.001 B | 5.502.001 S |
| 2000 | 118 | 236 | 5.502.001 | 5.502.002 B | 5.502.002 S |
| 3000 | 135 | 280 | 5.502.003 | 5.502.003 B | 5.502.003 S |

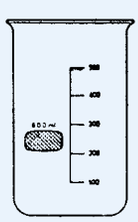


**5.502.*****

**Beakers, tall form,** made of borosilicate glass, with graduation, without spout, DIN 12331, ISO 3819

***Béchers gradués forme haute à bec,*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Brosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|
| 50 | 38 | 66 | 5.504.050 | 5.504.050 B |
| 100 | 47 | 80 | 5.504.100 | 5.504.100 B |
| 150 | 53 | 96 | 5.504.150 | 5.504.150 B |
| 250 | 61 | 117 | 5.504.250 | 5.504.250 B |
| 400 | 70 | 130 | 5.504.400 | 5.504.400 B |
| 600 | 82 | 143 | 5.504.600 | 5.504.600 B |
| 800 | 89 | 171 | 5.504.800 | 5.504.800 B |
| 1000 | 95 | 185 | 5.504.001 | 5.504.001 B |

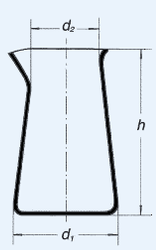


**5.504.*****

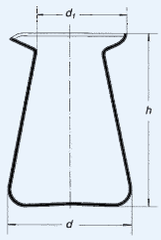
**Beakers, Philips,** low form, with spout, made of borosilicate glass

***Béchers forme tronconique basse à bec,*** *en verre borosilicaté*

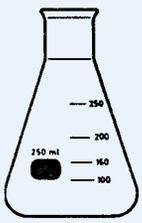
| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Packing<br>*Condition.*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 150 | 57 | 40 | 91 | 10 | 5.505.001 |
| 250 | 68 | 48 | 110 | 10 | 5.505.002 |
| 500 | 88 | 61 | 145 | 10 | 5.505.003 |
| 1000 | 112 | 70.5 | 184 | 10 | 5.505.004 |



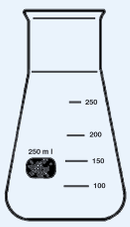

**5.505.*****




5.505.01*




5.506.***



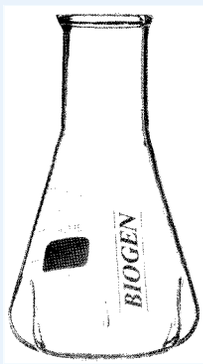

5.508.***
refer page 295



5.507.00*




5.507.1**




5.507.2**

**Beakers, sugar analysis**
made of borosilicate glass

***Béchers pour l'analyse des sucres***
*en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Packing<br>*Condition.*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 200 | 71 | 64 | 100 | 24 | **5.505.011** |
| 300 | 80 | 73 | 115 | 12 | **5.505.012** |

**Erlenmeyer flasks,** narrow neck, with graduations, acc. to DIN 12380, ISO 1773

***Fioles Erlenmeyer graduées*** *avec col à étroite ouverture*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* | Simax |
|---|---|---|---|---|---|---|
| 25 | 22 | 42 | 70 | **5.506.025** | **5.506.025 B** | **5.506.025 S** |
| 50 | 22 | 51 | 85 | **5.506.050** | **5.506.050 B** | **5.506.050 S** |
| 100 | 22 | 64 | 105 | **5.506.100** | **5.506.100 B** | **5.506.100 S** |
| 200 | 34 | 79 | 131 | **5.506.200** | **5.506.200 B** | **5.506.200 S** |
| 250 | 34 | 85 | 140 | **5.506.250** | **5.506.250 B** | **5.506.250 S** |
| 300 | 34 | 87 | 156 | **5.506.300** | **5.506.300 B** | **5.506.300 S** |
| 500 | 34 | 105 | 175 | **5.506.500** | **5.506.500 B** | **5.506.500 S** |
| 1000 | 42 | 131 | 220 | **5.506.001** | **5.506.001 B** | **5.506.001 S** |
| 2000 | 50 | 166 | 280 | **5.506.002** | **5.506.002 B** | **5.506.002 S** |
| 3000 | 50 | 187 | 310 | **5.506.003** | **5.506.003 B** | **5.506.003 S** |
| 5000 | 48 | 220 | 365 | **5.506.005** | **5.506.005 B** | **5.506.005 S** |

**Erlenmeyer flasks with screw cap,** graduated, for storrage of culture media and mixing, made of borosilicate glass

***Fioles Erlenmeyer graduée avec bouchon*** *à vis pour milieux de culture, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Screw-thread<br>*Filetage*<br>GL | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 18 | 42 | 70 | **5.507.001** |
| 50 | 25 | 51 | 85 | **5.507.002** |
| 100 | 25 | 64 | 105 | **5.507.003** |
| 250 | 32 | 85 | 140 | **5.507.004** |
| 500 | 32 | 105 | 175 | **5.507.005** |
| 1000 | 32 | 131 | 220 | **5.507.006** |
| 2000 | 45 | 166 | 280 | **5.507.007** |
| 3000 | 45 | 187 | 310 | **5.507.008** |
| 5000 | 45 | 220 | 365 | **5.507.009** |

**Culture flasks „BIOGEN",** Erlenmeyer shape, triple battled shake flask, designed for orbital shakers, neck straight for metal caps, made of borosilicate glass

***Fioles Erlenmeyer BIOGEN*** *pour milieux de culture, en verre borosilicaté à col droi*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 38 | 51 | 90 | **5.507.101** |
| 100 | 38 | 64 | 112 | **5.507.102** |
| 200 | 38 | 79 | 136 | **5.507.103** |
| 250 | 38 | 85 | 145 | **5.507.104** |
| 300 | 38 | 87 | 161 | **5.507.105** |
| 500 | 38 | 105 | 183 | **5.507.106** |
| 1000 | 38 | 131 | 232 | **5.507.107** |
| 2000 | 38 | 166 | 305 | **5.507.108** |
| 3000 | 38 | 187 | 310 | **5.507.109** |
| 5000 | 38 | 220 | 365 | **5.507.110** |

**Culture flasks „BIOGEN",** Erlenmeyer shape, neck with rim, triple battled shake flask, made of borosilicate glass

***Fioles Erlenmeyer BIOGEN*** *pour milieux de culture, en verre borosilicaté à col évasé*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 250 | 34 | 85 | 140 | **5.507.201** |
| 300 | 34 | 87 | 156 | **5.507.202** |
| 500 | 34 | 105 | 175 | **5.507.203** |
| 1000 | 42 | 131 | 220 | **5.507.204** |
| 2000 | 50 | 166 | 280 | **5.507.205** |

**Trypsinizing flasks, graduated,** designed for converting tissue fragments and homogenates into cell suspensions by trypsin digestion of connective proteins. Flutes in flask enhance vigorous agitation, made of borosilicate glass

***Fioles Erlenmeyer graduées*** *avec déflecteurs pour optimisation de l'agitation et des échanges gazeux, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 22 | 51 | 90 | **5.507.301** |
| 100 | 22 | 64 | 112 | **5.507.302** |
| 250 | 34 | 85 | 145 | **5.507.303** |
| 500 | 34 | 105 | 183 | **5.507.304** |
| 1000 | 42 | 131 | 232 | **5.507.305** |
| 2000 | 50 | 166 | 305 | **5.507.306** |
| 3000 | 50 | 187 | 310 | **5.507.307** |
| 5000 | 50 | 220 | 365 | **5.507.308** |

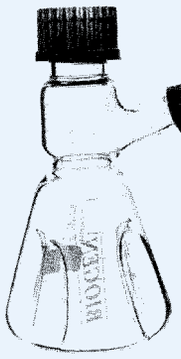



**5.507.3****

**Trypsinizing flasks, graduated,** with screw cap GL 32 on neck, sidearm with GL 18 thread. The constriction below the sidearm prevents untrypsinized tissue from passing out to flask when cells are decanted by tilting, made of borosilicate glass

***Fioles graduées BIOGEN*** *avec bouchons à vis GL 32 et GL 18 et déflecteurs, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 64 | 140 | **5.507.401** |
| 250 | 85 | 170 | **5.507.402** |
| 500 | 105 | 210 | **5.507.403** |
| 1000 | 131 | 265 | **5.507.404** |




**5.507.4****

**Biometer flasks,** for measuring microbial carbon doixide production on the same sample at frequent intervals for prolonged periods of time, made of borosilicate glass

***Fioles biométriques*** *pour la mesure de la production de CO2 microbienne, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 250 | **5.507.825** |

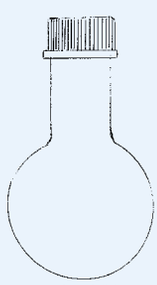



**5.507.825**

**Mutagenesis flasks,** for work involving mutagenesis in mammalian cells, excellent interaction between cell populations and mutagenic chemicals, made of borosilicate glass

***Fioles mutagénèses*** *pour tests de mutations géniques, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br><br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 125 | 25 | 64 | 115 | **5.507.901** |
| 250 | 32 | 85 | 140 | **5.507.902** |
| 500 | 32 | 105 | 180 | **5.507.903** |

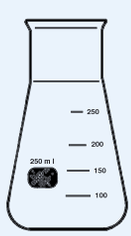


**5.507.9****

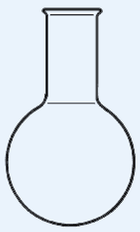
**Erlenmeyer flasks,** wide neck, with graduations, acc. to DIN 12380, ISO 1773

***Fioles Erlenmeyer graduées*** *avec col à large ouverture en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* | Simax |
|---|---|---|---|---|---|---|
| 25 | 31 | 43 | 70 | **5.508.025** | **5.508.025 B** | **5.508.025 S** |
| 50 | 34 | 51 | 85 | **5.508.050** | **5.508.050 B** | **5.508.050 S** |
| 100 | 34 | 64 | 105 | **5.508.100** | **5.508.100 B** | **5.508.100 S** |
| 200 | 50 | 79 | 131 | **5.508.200** | **5.508.200 B** | **5.508.200 S** |
| 250 | 50 | 85 | 140 | **5.508.250** | **5.508.250 B** | **5.508.250 S** |
| 300 | 50 | 87 | 156 | **5.508.300** | **5.508.300 B** | **5.508.300 S** |
| 500 | 50 | 105 | 175 | **5.508.500** | **5.508.500 B** | **5.508.500 S** |
| 1000 | 50 | 131 | 220 | **5.508.001** | **5.508.001 B** | **5.508.001 S** |
| 2000 | 70 | 153 | 275 | **5.508.002** | **5.508.002 B** | **5.508.002 S** |




**5.508.*****

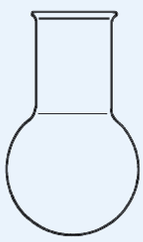


5.510.***

**Flasks, round bottom,** medium length, narrow neck, with beaded rim, acc. to DIN 12347, ISO 1773

***Ballons à fond rond** et à col étroite ouverture avec bord évasé*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|---|
| 50 | 22 | 51 | 105 | **5.510.050** | **5.510.050 B** |
| 100 | 22 | 64 | 115 | **5.510.100** | **5.510.100 B** |
| 250 | 34 | 85 | 145 | **5.510.250** | **5.510.250 B** |
| 500 | 34 | 105 | 175 | **5.510.500** | **5.510.500 B** |
| 1000 | 42 | 131 | 210 | **5.510.001** | **5.510.001 B** |
| 2000 | 50 | 166 | 260 | **5.510.002** | **5.510.002 B** |
| 2000 | 42 | 166 | 260 | **5.510.012** | **5.510.012 B** |
| 3000 | 65 | 185 | 295 | **5.510.003** | **5.510.003 B** |
| 4000 | 50 | 207 | 315 | **5.510.004** | **5.510.004 B** |
| 6000 | 65 | 236 | 355 | **5.510.006** | **5.510.006 B** |
| 10000 | 65 | 279 | 420 | **5.510.010** | **5.510.010 B** |
| 20000 | 76 | 345 | 515 | **5.510.020** | **5.510.020 B** |

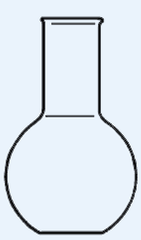


5.512.***

**Flasks, round bottom,** medium length, wide neck, with beaded rim, acc. to DIN 12347

***Ballons à fond rond** et à col large ouverture avec bord évasé*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|---|
| 50 | 34 | 51 | 105 | **5.512.050** | - |
| 100 | 34 | 64 | 115 | **5.512.100** | - |
| 250 | 50 | 85 | 145 | **5.512.250** | - |
| 500 | 50 | 105 | 175 | **5.512.500** | - |
| 1000 | 50 | 131 | 210 | **5.512.001** | - |
| 1000 | 65 | 131 | 210 | **5.512.011** | **5.512.011 B** |
| 2000 | 76 | 166 | 260 | **5.512.002** | - |
| 4000 | 76 | 207 | 315 | **5.512.004** | **5.512.004 B** |
| 6000 | 89 | 236 | 355 | **5.512.006** | **5.512.006 B** |
| 10000 | 89 | 279 | 420 | **5.512.010** | **5.512.010 B** |
| 20000 | 89 | 345 | 515 | **5.512.020** | **5.512.020 B** |

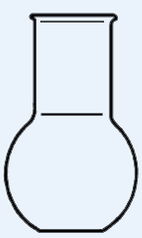


5.514.***

**Flasks, flat bottom,** medium length, narrow neck, with beaded rim, acc. to DIN 12347, ISO 1773

***Ballons à fond plat** et à col étroite ouverture avec bord évasé*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|---|
| 50 | 22 | 51 | 100 | **5.514.050** | **5.514.050 B** |
| 100 | 22 | 64 | 110 | **5.514.100** | **5.514.100 B** |
| 250 | 34 | 85 | 140 | **5.514.250** | **5.514.250 B** |
| 500 | 34 | 105 | 170 | **5.514.500** | **5.514.500 B** |
| 1000 | 42 | 131 | 200 | **5.514.001** | **5.514.001 B** |
| 2000 | 50 | 166 | 250 | **5.514.002** | **5.514.002 B** |
| 2000 | 42 | 166 | 250 | **5.514.012** | **5.514.012 B** |
| 4000 | 50 | 207 | 300 | **5.514.004** | **5.514.004 B** |
| 6000 | 65 | 236 | 340 | **5.514.006** | **5.514.006 B** |
| 10000 | 65 | 279 | 400 | **5.514.010** | **5.514.010 B** |



5.516.***

**Flasks, flat bottom,** medium length, wide, with beaded rim, acc. to DIN 12347

***Ballons à fond plat** et à col large ouverture avec bord évasé*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN |
|---|---|---|---|---|
| 50 | 34 | 51 | 100 | **5.516.050** |
| 100 | 34 | 64 | 110 | **5.516.100** |
| 250 | 50 | 85 | 140 | **5.516.250** |
| 500 | 50 | 105 | 170 | **5.516.500** |
| 1000 | 50 | 131 | 200 | **5.516.001** |
| 2000 | 76 | 166 | 250 | **5.516.002** |

**Flasks, Kjeldahl,** acc. to DIN 12360

***Ballons de Kjeldahl,** à bord évasé*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col*<br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|---|
| 50 | 22 | 51 | 200 | - | **5.518.050 B** |
| 100 | 22 | 60 | 200 | **5.518.100** | **5.518.100 B** |
| 250 | 34 | 85 | 270 | **5.518.250** | **5.518.250 B** |
| 500 | 34 | 101 | 300 | **5.518.500** | **5.518.500 B** |
| 750 | 34 | 105 | 340 | **5.518.750** | **5.518.750 B** |
| 1000 | 34 | 131 | 350 | **5.518.001** | **5.518.001 B** |



**5.518.*****

**Flasks, Kjeldahl,** with socket 19/26, made of Borosilicate glass, acc. to DIN 12360

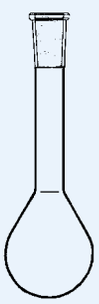
***Ballons de Kjeldahl** avec col à rodage femelle 19/26, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 19/26 | 51 | 200 | **5.518.052** |
| 100 | 19/26 | 60 | 200 | **5.518.102** |
| 250 | 19/26 | 85 | 270 | **5.518.252** |
| 500 | 19/26 | 101 | 300 | **5.518.502** |

**Flasks, Kjeldahl,** with socket 24/29, made of Borosilicate glass, acc. to DIN 12360

***Ballons de Kjeldahl** avec col à rodage femelle 24/29, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 24/29 | 51 | 200 | **5.518.053** |
| 100 | 24/29 | 60 | 200 | **5.518.103** |
| 250 | 24/29 | 85 | 270 | **5.518.253** |
| 500 | 24/29 | 101 | 300 | **5.518.503** |
| 750 | 24/29 | 105 | 340 | **5.518.753** |
| 1000 | 24/29 | 131 | 350 | **5.518.003** |



**5.518.**2 / .**3 / .**4**

**Flasks, Kjeldahl,** with socket 29/32, made of Borosilicate glass, acc. to DIN 12360

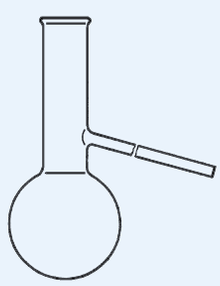
***Ballons de Kjeldahl** avec col à rodage femelle 29/32, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 29/32 | 51 | 200 | **5.518.054** |
| 100 | 29/32 | 60 | 200 | **5.518.104** |
| 250 | 29/32 | 85 | 270 | **5.518.254** |
| 500 | 29/32 | 101 | 300 | **5.518.504** |
| 750 | 29/32 | 105 | 340 | **5.518.754** |
| 1000 | 29/32 | 131 | 350 | **5.518.004** |

**Flasks, Kjeldahl,** with side arm length 200/8 mm, made of Borosilicate glass

***Ballons à distiller de Kjeldahl** avec tube de 200/8 mm et col évasé, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br><br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 22 | 63 | 150 | **5.520.100** |
| 250 | 34 | 85 | 200 | **5.520.250** |
| 500 | 34 | 105 | 250 | **5.520.500** |
| 1000 | 34 | 131 | 300 | **5.520.001** |

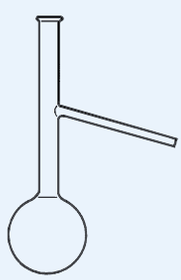


**5.520.*****

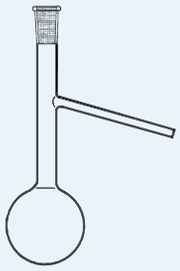
**Flasks, distilling, Engler,** with side arm length 100/6-7 mm, made of Borosilicate glass, acc. to DIN 51751, ASTM D 86

***Ballons à distiller d'Engler** selon ASTM D 86, avec tube de 100/6-7 mm et col évasé, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br><br>mm | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 16 | 66 | 215 | **5.522.100** |
| 125 | 17 | 68 | 215 | **5.522.125** |
| 150 | 16 | 73 | 223 | **5.522.150** |



**5.522.*****



5.523.125

**Flasks, distilling, Engler,** with side arm length 100/6-7 mm, made of Borosilicate glass, acc. to DIN 51751, ASTM D 86

*Ballons à distiller d'Engler selon ASTM D 86, avec tube de 100/6-7 mm et col à rodage femelle 19/26, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Max flask Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 125 | 19/26 | 68 | 215 | **5.523.125** |

## Bottles
## *Flacons*



5.523.***

**Laboratory bottles,** square, graduated with ISO thread, made of Borosilicate glass, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons carrés gradués,*** *en verre clair borosilicaté avec bouchon à vis GL 45 et bague anti-goutte en polypropyléne, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 45 | **5.523.311** |
| 250 | 45 | **5.523.312** |
| 500 | 45 | **5.523.313** |

**Laboratory bottles,** square, graduated with ISO thread, made of Borosilicate amber glass, without screw cap and pouring ring

***Flacons carrés gradués,*** *en verre brun borosilicaté sans bouchon à vis et sans bague anti-goutte, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 45 | **5.523.331** |
| 250 | 45 | **5.523.332** |
| 500 | 45 | **5.523.333** |
| 1000 | 45 | **5.523.334** |



5.526.***

**Laboratory bottles,** with ISO thread, made of Borosilicate glass, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons ronds gradués,*** *en verre clair borosilicaté avec bouchon à vis et bague anti-goutte en polypropylène, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 25 | **5.526.025** |
| 50 | 32 | **5.526.050** |
| 100 | 45 | **5.526.100** |
| 250 | 45 | **5.526.250** |
| 500 | 45 | **5.526.500** |
| 1000 | 45 | **5.526.001** |
| 2000 | 45 | **5.526.002** |
| 5000 | 45 | **5.526.005** |
| 10000 | 45 | **5.526.010** |
| 15000 | 45 | **5.526.015** |
| 20000 | 45 | **5.526.020** |

**Laboratory bottles,** with ISO thread, made of Borosilicate glass, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons ronds gradués,*** *en verre clair borosilicaté, avec bouchon à vis et bague anti-goutte en polypropylène, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Pack<br>*Paquet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 45 | 10 | **5.526.100 B** |
| 250 | 45 | 10 | **5.526.250 B** |
| 500 | 45 | 10 | **5.526.500 B** |
| 1000 | 45 | 10 | **5.526.001 B** |
| 2000 | 45 | 10 | **5.526.002 B** |
| 5000 | 45 | 1 | **5.526.005 B** |
| 10000 | 45 | 1 | **5.526.010 B** |
| 20000 | 45 | 1 | **5.526.020 B** |

**Laboratory bottles,** with ISO thread, blue graduated in a color code system, made of Borosilicate glass 3.3, ISO 4796, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons ronds à graduations bleues,*** *en verre clair borosilicaté, avec bouchon à vis et bague anti-goutte en polypropylène bleue, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Pack<br>*Paquet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 45 | 10 | **5.526.100 BL** |
| 250 | 45 | 10 | **5.526.250 BL** |
| 500 | 45 | 10 | **5.526.500 BL** |
| 1000 | 45 | 10 | **5.526.001 BL** |
| 2000 | 45 | 10 | **5.526.002 BL** |

**Laboratory bottles, with ISO thread, yellow graduated in a color code system,** made of Borosilicate glass 3.3, ISO 4796, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons ronds à graduations jaunes,*** *en verre clair borosilicaté, avec bouchon à vis et bague anti-goutte en polypropylène jaune, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Pack<br>*Paquet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 45 | 10 | **5.526.100 GE** |
| 250 | 45 | 10 | **5.526.250 GE** |
| 500 | 45 | 10 | **5.526.500 GE** |
| 1000 | 45 | 10 | **5.526.001 GE** |
| 2000 | 45 | 10 | **5.526.002 GE** |



**5.526.*****

**Laboratory bottles, with ISO thread, green graduated in a color code system,** made of Borosilicate glass 3.3, ISO 4796, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons ronds à graduations vertes,*** *en verre clair borosilicaté, avec bouchon à vis et bague anti-goutte en polypropylène vert, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Pack<br>*Paquet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 45 | 10 | **5.526.100 GR** |
| 250 | 45 | 10 | **5.526.250 GR** |
| 500 | 45 | 10 | **5.526.500 GR** |
| 1000 | 45 | 10 | **5.526.001 GR** |
| 2000 | 45 | 10 | **5.526.002 GR** |

**Laboratory bottles, with ISO thread, red graduated in a color code system,** made of Borosilicate glass 3.3, ISO 4796, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons ronds à graduations rouges,*** *en verre clair borosilicaté, avec bouchon à vis et bague anti-goutte en polypropylène rouge, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Pack<br>*Paquet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 45 | 10 | **5.526.100 RO** |
| 250 | 45 | 10 | **5.526.250 RO** |
| 500 | 45 | 10 | **5.526.500 RO** |
| 1000 | 45 | 10 | **5.526.001 RO** |
| 2000 | 45 | 10 | **5.526.002 RO** |



**5.526.*****

**Laboratory bottles,** with ISO thread, made of Borosilicat glass, with screw cap and pouring ring made of Polypropylene (PP)

***Flacons ronds gradués,*** *en verre clair borosilicaté, avec bouchon à vis et bague anti-goutte en polypropylène, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Pack<br>*Paquet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 45 | 10 | **5.526.100 S** |
| 250 | 45 | 10 | **5.526.250 S** |
| 500 | 45 | 10 | **5.526.500 S** |
| 1000 | 45 | 10 | **5.526.001 S** |
| 2000 | 45 | 10 | **5.526.002 S** |
| 5000 | 45 | 1 | **5.526.005 S** |
| 10000 | 45 | 1 | **5.526.010 S** |
| 20000 | 45 | 1 | **5.526.020 S** |

**Pouring rings,** made of Polypropylene (PP), GL 45, autoclavable (140 °C)

***Bagues anti-goutte*** *en polypropylène stérilisable (140°C), GL 45*

| Color<br>*Couleur* | Pack<br>*Paquet*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Blue / *bleu* | 10 | **0.175.202** |
| Yellow / *jaune* | 10 | **5.526.166** |
| Green / *vert* | 10 | **5.526.177** |
| Red / *rouge* | 10 | **5.526.188** |
| Nature / *naturel* | 10 | **5.526.199** |



**5.527.*****

**Laboratory bottles,** with ISO thread graduated, without screw cap, made of borosilicate glass 3.3

***Flacons ronds gradués,*** *en verre clair borosilicaté, sans bouchon, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 25 | **5.527.025** |
| 50 | 32 | **5.527.050** |
| 100 | 45 | **5.527.100** |
| 250 | 45 | **5.527.250** |
| 500 | 45 | **5.527.500** |
| 1000 | 45 | **5.527.001** |
| 2000 | 45 | **5.527.002** |
| 5000 | 45 | **5.527.005** |
| 10000 | 45 | **5.527.010** |
| 15000 | 45 | **5.527.015** |
| 20000 | 45 | **5.527.020** |
| 500 | 80 | **5.527.600** |
| 1000 | 80 | **5.527.601** |
| 2000 | 80 | **5.527.602** |
| 5000 | 80 | **5.527.605** |
| 10000 | 80 | **5.527.610** |
| 15000 | 80 | **5.527.615** |
| 20000 | 80 | **5.527.620** |
| 1000 | 100 | **5.527.701** |
| 2000 | 100 | **5.527.702** |
| 5000 | 100 | **5.527.705** |
| 10000 | 100 | **5.527.710** |
| 15000 | 100 | **5.527.715** |
| 20000 | 100 | **5.527.720** |

Accessories/*Accessoires*

| | |
|---|---|
| Screw cap with lip seal, GL 80, made of Polypropylene | **5.527.680** |

**Laboratory bottles,** with ISO thread, graduated, without screw cap, made of amber borosilicate glass 3.3

***Flacons ronds gradués,*** *en verre brun borosilicaté, sans bouchon, conforme ISO 4796*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Pas de vis*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 25 | **5.528.025** |
| 50 | 32 | **5.528.050** |
| 100 | 45 | **5.528.100** |
| 250 | 45 | **5.528.250** |
| 500 | 45 | **5.528.500** |
| 1000 | 45 | **5.528.001** |
| 2000 | 45 | **5.528.002** |
| 5000 | 45 | **5.528.005** |
| 10000 | 45 | **5.528.010** |
| 15000 | 45 | **5.528.015** |
| 20000 | 45 | **5.528.020** |
| 500 | 80 | **5.528.600** |
| 1000 | 80 | **5.528.601** |
| 2000 | 80 | **5.528.602** |
| 5000 | 80 | **5.528.605** |
| 10000 | 80 | **5.528.610** |
| 15000 | 80 | **5.528.615** |
| 20000 | 80 | **5.528.620** |
| 1000 | 100 | **5.528.701** |
| 2000 | 100 | **5.528.702** |
| 5000 | 100 | **5.528.705** |
| 10000 | 100 | **5.528.710** |
| 15000 | 100 | **5.528.715** |
| 20000 | 100 | **5.528.720** |

Accessories/*Accessoires*

| | |
|---|---|
| Screw cap with lip seal, GL 80, made of Polypropylene | **5.527.680** |



**5.528.*****

**Spinner flasks. "BIOGEN", DBGM (microcarrier spinner flasks)**
The fluid dynamic impeller assemblies to assure optimal lift of microcarrier beads at very low mixing speeds, the domed vessel bottom prevents microcarrier accumulations, positive-locking compression seal provides adjustable impeller assembly height, constructed of non-cytotoxic material, flasks inside surface siliconized on request, made of borosilicat glass

***Flacons de culture BIOGEN,*** *en verre borosilicaté autoclavable à cols à vis avec bouchons en polypropylène et joints, axe d'agitation suspendu réglable en hauteur. Idéal pour cellules sur microbilles*

| Capacity<br>*Capacité*<br>ml | Center neck screw cap<br>*Col central*<br>mm | Side arm screw cap<br>*Bras latéral*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 100 | 80 | 18 | 70 | 138 | **5.529.001** |
| 250 | 80 | 25 | 90 | 176 | **5.529.002** |
| 500 | 80 | 32 | 110 | 200 | **5.529.003** |
| 1000 | 110 | 45 | 138 | 246 | **5.529.004** |
| 3000 | 110 | 45 | 186 | 358 | **5.529.005** |
| 6000 | 110 | 45 | 200 | 420 | **5.529.006** |
| 8000 | 110 | 45 | 224 | 443 | **5.529.007** |
| 15000 | 110 | 45 | 300 | 570 | **5.529.008** |
| 36000 | 110 | 45 | 400 | 600 | **5.529.009** |



**5.529.*****

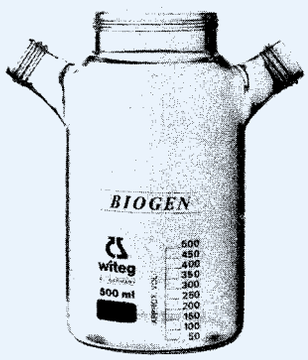



**5.529.01***

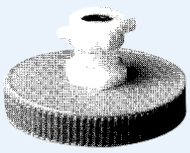
**Microcarrier stirrer flasks "BIOGEN". DBGM (cell culture vessels), complete** with glass stirrer rods reducing the possibility of cells attacking to and growing on the surfaces. With 2 side necks (size 8000 ml with 5 necks), the gentle stirring action keeps carrier beads in suspension at the lowest speed. Inside surface siliconized on request, made of borosilicat glass

***Flacons de culture BIOGEN,*** *en verre borosilicaté autoclavable à cols à vis avec bouchons en polypropylène et joints, axe d'agitation suspendu à 2 billes en verre réglable en hauteur. Idéal pour cellules sur microbilles. La version de 8000 ml est dôtée de 5 cols*

| Capacity<br>*Capacité*<br>ml | Center neck screw cap<br>*Col central*<br>mm | Side arm screw cap<br>*Bras latéral*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 100 | 80 | 18 | 70 | 138 | **5.529.011** |
| 250 | 80 | 25 | 90 | 176 | **5.529.012** |
| 500 | 80 | 32 | 110 | 200 | **5.529.013** |
| 1000 | 110 | 45 | 138 | 246 | **5.529.014** |
| 3000 | 110 | 45 | 186 | 358 | **5.529.015** |
| 8000 | 110 | 18 | 224 | 443 | **5.529.016** |




**5.529.2****

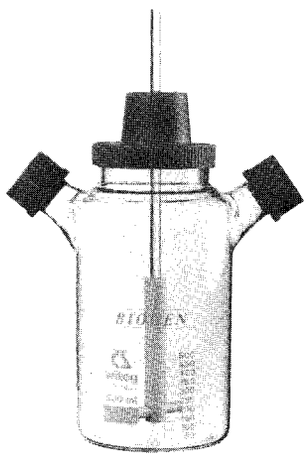


**5.529.4****

**Microcarrier stirrer flasks "BIOGEN". DBGM (cell culture vessels) Accessories**

***Accessoires et rechanges pour flacons de culture BIOGEN***

| Capacity<br>*Capacité*<br>ml | Center neck screw cap<br>*Col central*<br>mm | Side arm screw cap<br>*Bras latéral*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| **Bottle /** *Flacon* | | | | | |
| 100 | 80 | 18 | 70 | 138 | **5.529.201** |
| 250 | 80 | 25 | 90 | 176 | **5.529.202** |
| 500 | 80 | 32 | 110 | 200 | **5.529.203** |
| 1000 | 110 | 45 | 138 | 246 | **5.529.204** |
| 3000 | 110 | 45 | 186 | 358 | **5.529.205** |
| 8000 | 110 | 18 | 224 | 443 | **5.529.206** |
| Impeller assemblies for Order No.<br>*Tige d'agitation pour No.* | | | | | |
| 5.529.011 | | | | | **5.529.051** |
| 5.529.012 | | | | | **5.529.052** |
| 5.529.013 | | | | | **5.529.053** |
| 5.529.014 | | | | | **5.529.054** |
| 5.529.015 | | | | | **5.529.055** |
| 5.529.016 | | | | | **5.529.056** |
| Cap assembly with liner and compression filling for Order No.<br>*Kit de bouchonnage avec joint pour No.* | | | | | |
| 5.529.011 - 5.529.013 | | | | | **5.529.411** |
| 5.529.014 - 5.529.016 | | | | | **5.529.412** |




**5.529.02***

**Adjustable hanging bar spinner flasks**, made of borosilicat glass, PTFE-impeller assembly moves around a glass rod, for floating tissue culture, adjustable spinner height, with flat vessel bottom, center neck with screw-cap stopper

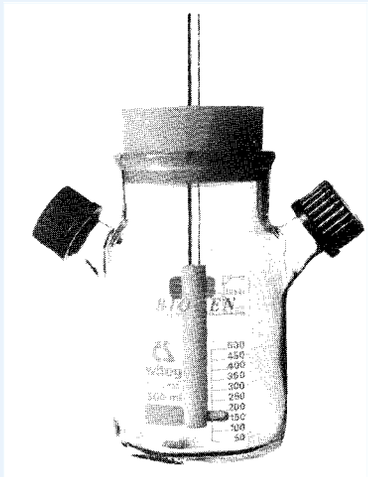
***Flacons de culture BIOGEN,*** *en verre borosilicaté autoclavable à cols à vis avec bouchons en polypropylène et joints, axe d'agitation suspendu réglable en hauteur en téflon. Idéal pour la flottation de culture*

| Capacity<br>*Capacité*<br>ml | Center neck screw cap<br>*Col central*<br>mm | Side arm screw cap<br>*Bras latéral*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 25 | 45 | 18 | 46 | 87 | **5.529.021** |
| 50 | 45 | 18 | 56 | 100 | **5.529.022** |
| 100 | 80 | 18 | 70 | 138 | **5.529.023** |
| 250 | 80 | 25 | 90 | 176 | **5.529.024** |
| 500 | 80 | 32 | 110 | 200 | **5.529.025** |
| 1000 | 110 | 45 | 138 | 246 | **5.529.026** |
| 3000 | 110 | 45 | 186 | 358 | **5.529.027** |
| 6000 | 110 | 45 | 200 | 420 | **5.529.028** |
| 8000 | 110 | 45 | 224 | 443 | **5.529.029** |
| 15000 | 110 | 45 | 300 | 570 | **5.529.030** |
| 36000 | 110 | 45 | 400 | 600 | **5.529.031** |

**Adjustable hanging bar spinner flasks**, made of borosilicat glass, PTFE-impeller assembly moves around a glass rod, for floating tissue culture, adjustable spinner height, with flat vessel bottom, center neck with silicone rubber stopper

***Flacons de culture BIOGEN,*** *en verre borosilicaté gradué autoclavable, avec axe d'agitation à barreau suspendu aimanté en verre/téflon et réglable en hauteur. Fermeture centrale par bouchon en silicone et à bouchons à vis sur les cols latéraux . Idéal pour la flottation cellulaire*

| Capacity<br>*Capacité*<br>ml | Center neck screw cap<br>*Col central*<br>mm | Side arm screw cap<br>*Bras latéral*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 50 | 45 | 18 | 56 | 100 | **5.529.101** |
| 100 | 80 | 18 | 70 | 138 | **5.529.102** |
| 250 | 80 | 25 | 90 | 176 | **5.529.103** |
| 500 | 80 | 32 | 110 | 200 | **5.529.104** |
| 1000 | 110 | 45 | 138 | 246 | **5.529.105** |
| 3000 | 110 | 45 | 186 | 358 | **5.529.106** |
| 6000 | 110 | 45 | 200 | 420 | **5.529.107** |
| 8000 | 110 | 45 | 224 | 443 | **5.529.108** |
| 15000 | 110 | 45 | 300 | 570 | **5.529.109** |
| 36000 | 110 | 45 | 400 | 600 | **5.529.110** |

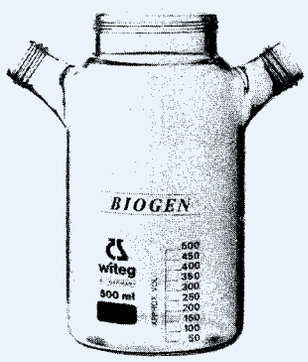


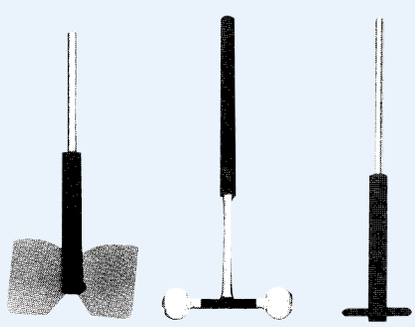

**5.529.1****

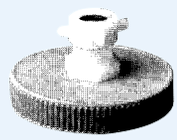
**Replacement parts for spinner flasks „BIOGEN“**

***Pièces de rechange pour les flacons de culture BIOGEN***

| For Order No.<br>*Pour N° de code* | Reservoir only<br>*Réservoir seul* | Impeller assembly<br>*Anneau d'agitation seul* | Impeller shaft<br>*Axe d'agitation seul* |
|---|---|---|---|
| 5.529.001 | **5.529.201** | **5.529.210** | **5.529.313** |
| 5.529.002 | **5.529.202** | **5.529.210** | **5.529.313** |
| 5.529.003 | **5.529.203** | **5.529.210** | **5.529.314** |
| 5.529.004 | **5.529.204** | **5.529.220** | **5.529.315** |
| 5.529.005 | **5.529.205** | **5.529.220** | **5.529.316** |
| 5.529.006 | **5.529.206** | **5.529.222** | **5.529.317** |
| 5.529.007 | **5.529.207** | **5.529.222** | **5.529.317** |
| 5.529.008 | **5.529.208** | **5.529.230** | **5.529.320** |
| 5.529.009 | **5.529.209** | **5.529.230** | **5.529.320** |
| | | | |
| 5.529.021 | **5.529.198** | **5.529.235** | **5.529.312** |
| 5.529.022 | **5.529.199** | **5.529.240** | **5.529.312** |
| 5.529.023 | **5.529.211** | **5.529.240** | **5.529.313** |
| 5.529.024 | **5.529.212** | **5.529.240** | **5.529.313** |
| 5.529.025 | **5.529.213** | **5.529.240** | **5.529.314** |
| 5.529.026 | **5.529.214** | **5.529.250** | **5.529.315** |
| 5.529.027 | **5.529.215** | **5.529.251** | **5.529.316** |
| 5.529.028 | **5.529.216** | **5.529.252** | **5.529.317** |
| 5.529.029 | **5.529.217** | **5.529.252** | **5.529.317** |
| 5.529.030 | **5.529.218** | **5.529.260** | **5.529.320** |
| 5.529.031 | **5.529.219** | **5.529.260** | **5.529.320** |
| | | | |
| 5.529.101 | **5.529.221** | **5.529.240** | **5.529.312** |
| 5.529.102 | **5.529.223** | **5.529.240** | **5.529.313** |
| 5.529.103 | **5.529.224** | **5.529.240** | **5.529.313** |
| 5.529.104 | **5.529.225** | **5.529.240** | **5.529.314** |
| 5.529.105 | **5.529.226** | **5.529.250** | **5.529.315** |
| 5.529.106 | **5.529.227** | **5.529.251** | **5.529.316** |
| 5.529.107 | **5.529.228** | **5.529.252** | **5.529.318** |
| 5.529.108 | **5.529.229** | **5.529.252** | **5.529.318** |
| 5.529.109 | **5.529.231** | **5.529.260** | **5.529.320** |
| 5.529.110 | **5.529.232** | **5.529.260** | **5.529.320** |





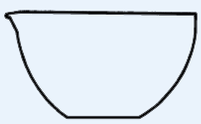
| | |
|---|---|
| Cap assembly with liner and compression closure<br>*Fermeture avec bouchon à pression et liner pour les flacons de culture suivants* | |
| 5.529.001 - 5.529.003 | **5.529.400** |
| 5.529.004 - 5.529.009 | **5.529.401** |
| Cap assembly with liner and rubber stopper<br>*Fermeture avec bouchon en silicone et liner pour les flacons de culture suivants* | |
| 5.529.021 - 5.529.025 | **5.529.423** |
| 5.529.026 - 5.529.031 | **5.529.424** |



**7.211.0****
-
**5.529.5****

**Magnetic stirrer bars, for spinner flasks** *Barreaux d'agitation magnétiques, pour flacons de culture*

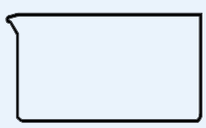
| Dinsions<br>*Dimensions*<br>mm | For flasks with capcity<br>*Pour flacon de capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 6 x 25 | 25 | **7.211.006** |
| 8 x 40 | 50 - 100 | **7.211.009** |
| 10 x 80 | 1000 - 8000 | **7.211.014** |
| 12 x 100 | 15000 - 36000 | **5.529.504** |



**5.530.*****

**Evaporating dishes, with spout and notation badge, acc. to DIN 12336** *Capsules d'évaporation à bec et fond plat*

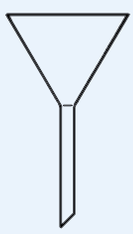
| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|
| 40 | 18 | 10 | - | **5.530.010 B** |
| 50 | 25 | 15 | **5.530.015** | **5.530.015 B** |
| 60 | 30 | 45 | **5.530.045** | **5.530.045 B** |
| 70 | 35 | 60 | **5.530.060** | **5.530.060 B** |
| 80 | 45 | 90 | **5.530.090** | **5.530.090 B** |
| 95 | 55 | 170 | **5.530.170** | **5.530.170 B** |
| 115 | 65 | 320 | **5.530.320** | **5.530.320 B** |
| 140 | 80 | 600 | **5.530.600** | **5.530.600 B** |
| 190 | 100 | 1500 | **5.530.001** | **5.530.001 B** |
| 230 | 130 | 2500 | **5.530.002** | **5.530.002 B** |



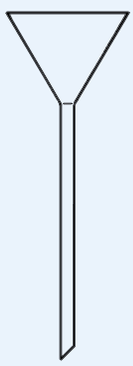
**5.534.*****

**Crystalizing dishes,** with spout and notation badge, acc. to DIN 12338 *Cristallisoirs à bec*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|
| 40 | 25 | 20 | **5.534.020** | **5.534.020 B** |
| 50 | 30 | 40 | **5.534.040** | **5.534.040 B** |
| 60 | 35 | 60 | **5.534.060** | **5.534.060 B** |
| 70 | 40 | 100 | **5.534.100** | **5.534.100 B** |
| 80 | 45 | 150 | **5.534.150** | **5.534.150 B** |
| 95 | 55 | 300 | **5.534.300** | **5.534.300 B** |
| 115 | 65 | 500 | **5.534.500** | **5.534.500 B** |
| 140 | 75 | 900 | **5.534.900** | **5.534.900 B** |
| 190 | 90 | 2000 | **5.534.002** | **5.534.002 B** |
| 230 | 100 | 3500 | **5.534.003** | **5.534.003 B** |



**5.550.****



**5.552.*****

**Funnels, with short stem,** acc. to DIN 12445 *Entonnoirs à tige courte*

| Outer Ø<br>*Ø ext.*<br>mm | Stem length<br>*Longueur de tige*<br>mm | Stem outer Ø<br>*Ø ext. de tige*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|
| 35 | 35 | 6 | **5.550.035** | **5.550.035 B** |
| 35 | 45 | 6 | **5.550.045** | **5.550.045 B** |
| 55 | 55 | 8 | **5.550.055** | **5.550.055 B** |
| 70 | 70 | 8 | **5.550.070** | **5.550.070 B** |
| 80 | 80 | 10 | **5.550.080** | **5.550.080 B** |
| 100 | 100 | 10 | **5.550.100** | **5.550.100 B** |
| 150 | 150 | 16 | **5.550.150** | **5.550.150 B** |
| 200 | 175 | 26 | **5.550.200** | **5.550.200 B** |
| 300 | 175 | 30 | **5.550.300** | **5.550.300 B** |

**Funnels, with long stem,** acc. to DIN 12446, *Entonnoirs à tige longue*

| Outer Ø<br>*Ø ext.*<br>mm | Stem length<br>*Longueur de tige*<br>mm | Stem outer Ø<br>*Ø ext. de tige*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|
| 55 | 150 | 6 | **5.552.055** | **5.552.055 B** |
| 70 | 150 | 6 | **5.552.070** | **5.552.070 B** |
| 80 | 150 | 6 | **5.552.080** | **5.552.080 B** |

**Freeze drying ampoules,** round bottom, made of Borosilicate glass

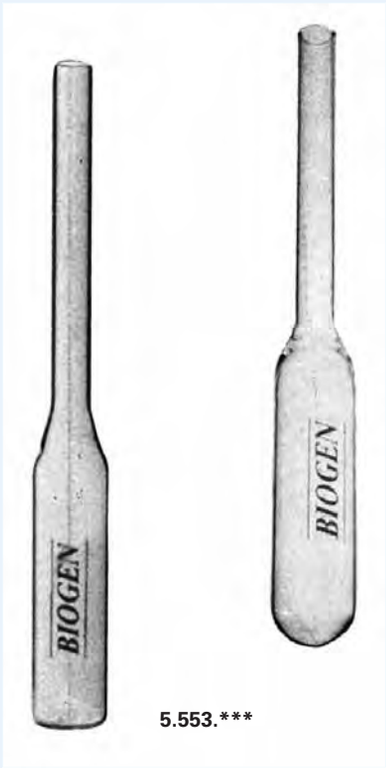
***Ampoules de lyophilisation*** *à fond rond, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck outer Ø<br>*Col Ø ext.*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 7 | 80 | **5.553.001** |
| 2 | 8 | 140 | **5.553.002** |
| 3 | 8 | 163 | **5.553.003** |
| 5 | 8 | 167 | **5.553.004** |
| 10 | 8 | 180 | **5.553.005** |
| 15 | 8 | 180 | **5.553.006** |
| 20 | 8 | 195 | **5.553.007** |
| 25 | 8 | 200 | **5.553.008** |
| 50 | 8 | 230 | **5.553.009** |
| 100 | 15 | 240 | **5.553.010** |

**Freeze drying ampoules,** flat bottom, made of Borosilicate glass

***Ampoules de lyophilisation*** *à fond plat, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck outer Ø<br>*Col Ø ext.*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 7 | 80 | **5.553.101** |
| 2 | 8 | 140 | **5.553.102** |
| 3 | 8 | 163 | **5.553.103** |
| 5 | 8 | 167 | **5.553.104** |
| 10 | 8 | 180 | **5.553.105** |
| 25 | 8 | 200 | **5.553.106** |

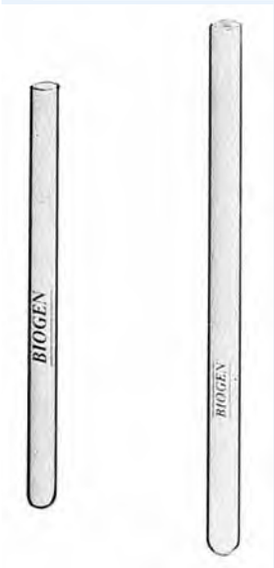



**5.553.*****

**Freeze drying ampoules,** straight sided, round bottom, made of Borosilicate glass

***Ampoules de lyophilisation*** *à fond rond, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck outer Ø<br>*Col Ø ext.*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 7 | 127 | **5.553.201** |
| 2 | 8 | 145 | **5.553.202** |
| 3 | 10 | 145 | **5.553.203** |
| 4 | 10 | 170 | **5.553.204** |




**5.553.2****

**Freeze drying ampoules,** tubular with seal-off constriction, made of Borosilicate glass

***Ampoules de lyophilisation,*** *à forme tubulaire avec retrécissement, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck outer Ø<br>*Col Ø ext.*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5 | 6 | 105 | **5.553.301** |
| 1 | 8 | 145 | **5.553.302** |
| 2 | 9 | 145 | **5.553.303** |

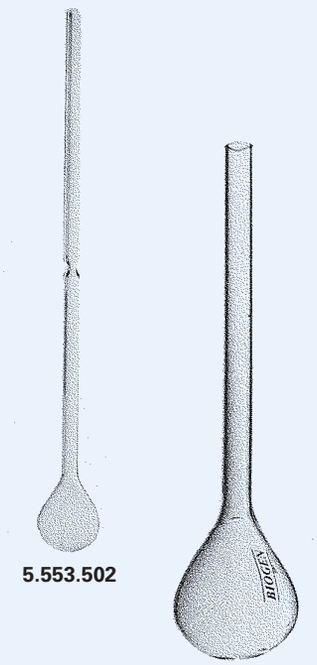



**5.553.302**

**Freeze drying ampoules,** for large culture collections, made of Borosilicate glass

***Ampoules de lyophilisation,*** *pour grande collection de cultures, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck outer Ø<br>*Col Ø ext.*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5 | 5 | 90 | **5.553.401** |




5.553.502

5.553.601

**Freeze drying ampoules,** bulb-type, with seal-off constriction, made of Borosilicate glass

***Ampoules de lyophilisation,*** *à fond en forme de poire avec retrécissement, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck outer Ø<br>*Col Ø ext.*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 8 | 130 | **5.553.501** |
| 2 | 8 | 130 | **5.553.502** |
| 5 | 8 | 130 | **5.553.503** |
| 10 | 8 | 140 | **5.553.504** |
| 20 | 8 | 147 | **5.553.505** |

**Freeze drying ampoules**, made of Borosilicate glass, with marking area, inside Ø allows entrance of 1 ml pipettes into bulb

***Ampoules de lyophilisation,*** *à fond rond avec surface à écrire et ouverture permettant d'introduire une pipette de 1ml, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Neck outer Ø<br>*Col Ø ext.*<br>mm | Overall length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 10 | 155 | **5.553.601** |




5.553.61*

**Aseptic filling bell,** made of Borosilicate glass, with hose connection for rubber tubing. The filling bell is to be placed on to the collecting vessel

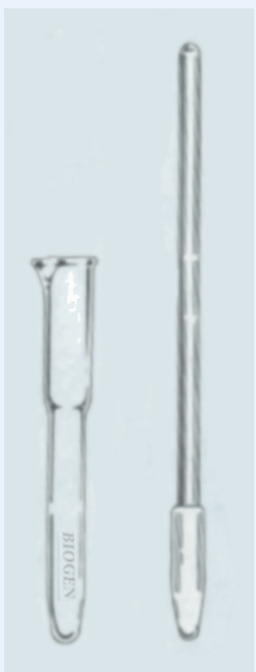
***Cloche à remplissage aseptique*** *en verre borosilicaté, avec tubulure pour tuyau et est utilisée à être montée sur le récipient de collecte*

| Inner Ø Bell<br>*Ø int. de cloche*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 20 | 80 | **5.553.611** |
| 40 | 100 | **5.553.612** |
| 50 | 100 | **5.553.613** |
| 70 | 130 | **5.553.614** |
| 100 | 135 | **5.553.615** |

**Aseptic filling bell,** made of Borosilicate glass, with frit, with hose connection for rubber tubing. The filling bell is to be placed on to the collecting vessel

***Cloche à remplissage aseptique frittée*** *en verre borosilicaté, avec tubulure pour tuyau et est utilisée à être montée sur le récipient de collecte*

| Inner Ø Bell<br>*Ø int. de cloche*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 40 | 100 | **5.553.622** |
| 100 | 135 | **5.553.625** |




5.553.7**

## Homogenizers
## *Broyeurs*

**Tissue homogenizer**
Pestle and mortar

***Broyeur pour tissus et poudres BIOGEN,*** *avec piston en téflon*

| appr. capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 5 | **5.553.701** |

**Tissue homogenizer, conical shape,** made of borosilicate glass, for heart, muscle and lung samples. The long surface allows both, pre-preparation and micro-grinding down to 0.1 to 0.15 mm on the vertical mortar surfaces. The yield is higher and more constant than with Tenbroeck- or Potter-Elvehjem homogenizers

***Broyeur pour tissus en forme conique,*** *en verre borosilicate, pour broyage d'échantillons de coeur, de muscle et de poumons. La grande surface sert aussi bien pour la préparation que pour le micro-broyage à une finnesse de 0.1 à 0.15 mm sur la surface verticale du mortier. Le piston est plus haut et plus constant que celui des broyeurs de Tenbroeck ou de Potter-Elvehjem*

| appr. capacity<br>*Capacité*<br>ml | Pestle<br>*Piston*<br>mm | Reservoir<br>*Réservoir*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 115 x 6 | 14 x 80 | **5.553.711** |
| 3 | 207 x 6 | 16 x 120 | **5.553.712** |
| 5 | 220 x 8 | 18 x 150 | **5.553.713** |
| 15 | 278 x 10 | 25 x 172 | **5.553.714** |
| 30 | 310 x 10 | 32 x 215 | **5.553.715** |
| 50 | 345 x 16 | 38 x 225 | **5.553.716** |



**5.553.71***

**Dounce tissue homogenizer,** made of borosilicate glass, for maximum nuclein and mitochondria yields with smooth samples. With two pestels for pre- and final preparation. Superior reproducibility. Very low heating effects and therefore high yields. Scope of delivers: Set with two pestles, stamp A 0.1 to 0.15 mm, stamp B 0.03 to 0.08 mm

***Broyeur de Dounce,*** *en verre borosilicaté à piston à boule particulièrement utilisé pour les études d'enzymes, les E.coli, proteines et tumeurs et permet aussi de conserver un fort pourcentage de noyaux et mitochondries dans les tissus mous. Livré avec 2 pistons interchangeables A (0.1-0.15mm) et B (0.03-0.08mm)*

| appr. capacity<br>*Capacité*<br>ml | Reservoir<br>*Réservoir*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 2 | 11 x 48 | **5.553.720** |
| 7 | 13 x 82 | **5.553.721** |
| 15 | 15 x 94 | **5.553.722** |
| 40 | 21 x 140 | **5.553.723** |



**5.553.72***

**Potter Elvehjem tissue homogenizer,** made of borosilicate glass, with PTFE pestle and metal shaft also for use with motor drive units. Gap size 102 to 152 µm, advantageous with liver, brain and tumor tissues

*Broyeur de Potter Elvehjem, en verre borosilicaté, pour tissus et poudres, avec piston en téflon pour broyage important de tissus mous, cervelle, foie, tumeurs et autres, avec tige en acier inoxydable pour utilisation sur moteur d'agitation*

| appr. capacity<br>*Capacité*<br>ml | Pestle<br>*Piston*<br>mm | Reservoir<br>*Réservoir*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.25 | 130 x 3 | 8 x 20 | **5.553.731** |
| 0.5 | 130 x 3 | 8 x 30 | **5.553.732** |
| 1 | 155 x 5 | 11 x 30 | **5.553.733** |
| 2 | 230 x 5 | 11 x 45 | **5.553.734** |
| 5 | 235 x 5 | 13 x 66 | **5.553.735** |
| 10 | 270 x 6 | 16 x 74 | **5.553.736** |
| 15 | 270 x 6 | 19 x 84 | **5.553.737** |
| 30 | 270 x 6 | 24 x 118 | **5.553.738** |
| 55 | 270 x 6 | 30 x 130 | **5.553.739** |



**5.553.73***

**Tenbroeck tissue homogenizer,** made of borosilicate glass, with T-handle, gap size 102 to 152 µm, for manual operation or low speed drives with rubber stoppers which fit to the special shaped handle. For liver and heart tissues. The hollow pestle may be filled with ice for chilled operation

***Broyeur de Tenbroeck*** *destiné au broyage à froid de tissus de foie, intestin, coeur et autresm entièrement en verre borosilicaté avec piton creux pour introduction de glace*

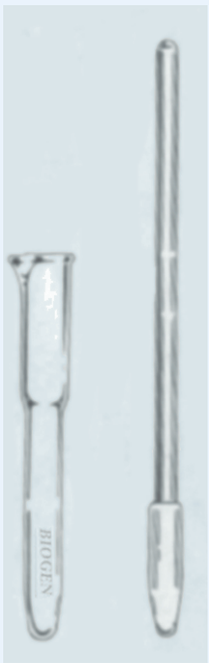
| appr. capacity<br>*Capacité*<br>ml | Pestle<br>*Piston*<br>mm | Reservoir<br>*Réservoir*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 160 x 50 | 30 x 100 | **5.553.741** |
| 7 | 195 x 50 | 30 x 125 | **5.553.742** |
| 15 | 210 x 65 | 38 x 155 | **5.553.743** |
| 40 | 310 x 90 | 55 x 215 | **5.553.744** |



**5.553.74***



5.553.80*




5.553.85*

**Tissue grinders**
PTFE pestle has 0.15 – 0.25 mm clearance with borosilicate mortar. Pestle shaft 6.5 mm. Volumes stated are working volumes. Ideal for small amounts of tissue. Serrated pestle should be used on tough materials such as tumours. Avoid excessive generated heat as could cause binding.
Mortars made of borosilicate glass

***Broyeurs de Potter***
*Ils sont constitués par un mortier en verre et un piston en PTFE ; l'interstice entre le mortier et le piston est de 0,15 – 0,25 mm. Le diamètre de la barre du piston est de 6,5 mm. Les capacités mentionnées correspondent aux corps avec le piston en place. A éviter surchauffes qui peuvent entamer les tissus à homogéniser. Mortiers, en verre borosilicate*

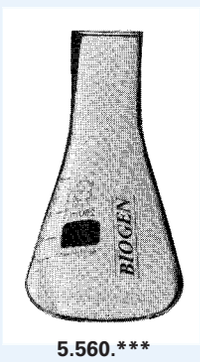
| appr. capacity<br>*Capacité*<br>ml | Working Ø<br>*Utile Ø*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 8 | 120 | **5.553.800** |
| 5 | 12 | 135 | **5.553.801** |
| 10 | 15 | 150 | **5.553.802** |
| 15 | 16 | 155 | **5.553.803** |
| 30 | 25 | 175 | **5.553.804** |
| 50 | 32 | 195 | **5.553.805** |

**Pestles, serrated**
Serrated pestle should be used on tough materials such as tumours, head made of PTFE, shaft made of stainless steel

***Pistons, fond strié***
*en acier inox avec partie finale en PFTE, les pistons avec surface striée sont spécialement indiqués pour matières dures commes les tissus tumoraux*

| for capacity<br>*Pour capacité*<br>ml | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 2 | 230 | **5.553.850** |
| 5 | 235 | **5.553.851** |
| 10 | 270 | **5.553.852** |
| 15 | 270 | **5.553.853** |
| 30 | 270 | **5.553.854** |
| 50 | 270 | **5.553.855** |

## Culture flasks
## *Flacons de culture*

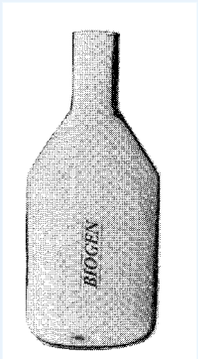



5.560.***

**Culture flasks „BIOGEN"**
Erlenmeyer shape, straight neck for metal caps, uniform neck outer Ø 38 mm, made of borosilicate glass

***Flacons de culture BIOGEN***
*forme Erlenmeyer à col pour fermeture en métal de dia. 38 mm, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Flask Ø<br>*Flacon Ø*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 51 | 85 | **5.560.050** |
| 100 | 64 | 112 | **5.560.100** |
| 200 | 79 | 136 | **5.560.200** |
| 250 | 85 | 145 | **5.560.250** |
| 300 | 87 | 161 | **5.560.300** |
| 500 | 105 | 183 | **5.560.500** |
| 1000 | 131 | 232 | **5.560.001** |
| 2000 | 166 | 305 | **5.560.002** |
| 3000 | 187 | 310 | **5.560.003** |
| 5000 | 220 | 365 | **5.560.005** |




5.562.***

**Culture media bottles „BIOGEN"**
straight neck for metal caps, uniform neck outer Ø 38 mm, made of borosilicate glass

***Flacons pour milieu de culture BIOGEN***
*à col pour fermeture en métal de dia. 38 mm, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Flask Ø<br>*Flacon Ø*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 50 | 125 | **5.562.100** |
| 300 | 71 | 170 | **5.562.300** |
| 500 | 83 | 208 | **5.562.500** |
| 1000 | 105 | 240 | **5.562.001** |

**Culture flasks, Fernbach type,** conical straight neck for metal caps, uniform neck outer Ø 38 mm, made of borosilicate glass

***Flacons de culture selon Fernbach*** *forme conique à col pour fermeture en métal de dia. 38 mm, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Flask Ø<br>*Flacon Ø*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1800 | 200 | 155 | **5.568.050** |

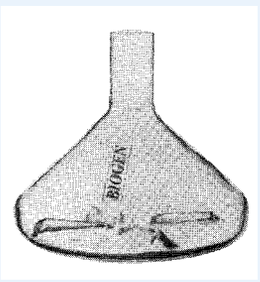



**5.568.050**

**Triple battled Fernbach flasks,** made of borosilicate glass, straight neck for metal caps 38 mm

***Flacons de culture selon Fernbach*** *à trois cavités et à col pour fermeture en métal de dia. 38 mm, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Flask Ø<br>*Flacon Ø*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1800 | 200 | 155 | **5.568.100** |

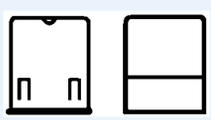



**5.568.100**

**Metal caps, suitable for:**
culture flasks and culter media bottles

***Capuchon de fermeture en métal*** *pour flacons de culture et de milieu de culture*

| Material<br>*Material* | for neck Ø<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Stainless steel/*acier inox* | 38 | **5.570.001** |
| Aluminium/*aluminium* | 38 | **5.570.002** |

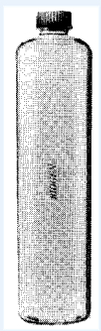


**5.570.*****

**Erlenmeyer-Cap Stopper,** made of plated anodised coloured aluminium. Internal spring in nickel-chromed steel. For Erlenmeyer flasks with neck 37/39mm

***Capuchons Erlenmeyer-Cap*** *en aluminium coloré par anodisation et ressort interne en acier nickel-chrome. Pour Erlenmeyer à col 37/39mm*

| For flasks Ø<br>*Pour fioles Ø*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Silver<br>*Argenté* | Blue<br>*Bleu* | Red<br>*Rouge* |
|---|---|---|---|---|
| 37-39 | 10 | **5.570.011** | **5.570.012** | **5.570.013** |



**5.574.*****

**Roller bottles for cell cultures**
with ISO thread, made of borosilicate glass, with plastic screw-cap and pouring ring, made of polypropylene (PP)

***Bouteilles de culture BIOGEN*** *en verre borosilicaté autoclavable avec bouchon à visser en plastique et joint d'étanchéité en polypropylène, pour rouleur de culture*

| Screw thread<br>GL | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Growth area<br>*Col à vis*<br>cm² | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 45 | 110 | 285 | 670 | **5.574.001** |
| 45 | 110 | 420 | 1170 | **5.574.002** |




**5.575.001**

**Double surface roller bottles „BIOGEN“** for cell cultures, with screw-cap and pouring ring, made of polypropylene (PP)

***Bouteille de culture BIOGEN à double surface*** *en verre borosilicaté autoclavable avec bouchon à visser en plastique et joint d'étanchéité en polypropylène, pour rouleur de culture*

| Screw thread<br>GL | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Growth area<br>*Col à vis*<br>cm² | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 45 | 110 | 285 | 1300 | **5.575.001** |

**Culture flask, Fernbach type**
bulgy shape, made of borosilicate glass

***Flacon de culture selon Fernbach*** *en forme évasée, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 450 | 117 | 100 | **5.576.000** |




**5.576.*****

**Culture flask, Roux**
centric, made of borosilicate glass

***Flacon à culture de Roux*** *en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Width<br>mm | Height<br>*Hauteur*<br>mm | Neck<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 1200 | 260 | 122 | 56 | 32 | **5.580.000** |



**5.580.*****

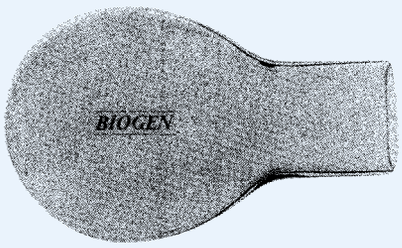



**5.581.800**

**Roux culture bottle,** made of borosilicate glass, with screw cap GL 45

***Flacon à culture de Roux,*** *avec bochon à vis GL 45, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Width<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1200 | 260 | 122 | 56 | **5.581.800** |




**5.590.*****

**Culture flask, Kolle,** oval neck, made of borosilicate glass

***Flacon à culture selon Kolle,*** *à col oval, en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 400 | **5.590.000** |

**Culture flask, Roux,** with conical neck, excentric, made of borosilicate glass

***Flacon à culture de Roux,*** *à col conique excentrique en verre borosilicaté*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 1200 | **5.594.001** |

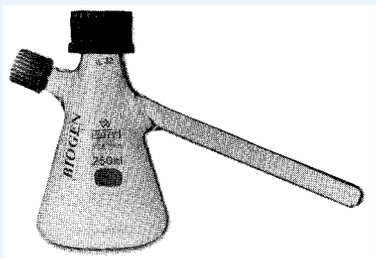



**5.599.00***

**Nephelo culture flasks „BIOGEN“** with cleanout GL 18 and lateral sidearm, made of borosilicate glass, medium neck with beaded rim, for determining turbidity of any fluid culture tissue with a simple spectrophotometric method, complete

***Flacon à culture Néphélométrique*** *en verre borosilicaté BIOGEN à col central évasé et à bras latéral à bouchon GL18 , pour la détermination de la turbidité des liquides de culture par une simple méthode spectrophotométrique*

| Capacity<br>*Capacité*<br>ml | Culture volume<br>*Volume de culture*<br>ml | Sidearm size<br>*Dimensions du bras*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 300 | 135 | 12 x 130 | **5.599.001** |
| 300 | 135 | 14 x 130 | **5.599.002** |
| 300 | 135 | 18 x 130 | **5.599.003** |

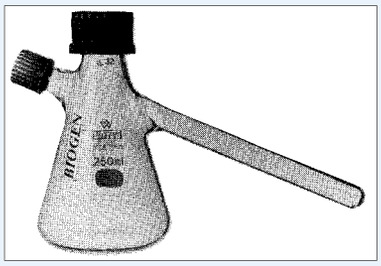



**5.590.01***

**Nephelo culture flasks „BIOGEN“** with cleanout GL 18 and lateral sidearm. Medium neck GL 32, made of borosilicate glass, (other sidearm angles, position or size upon request)

***Flacon à culture Néphélométrique*** *en verre borosilicaté BIOGEN à col central à bouchon GL 32 et à bras latéral à bouchon GL18, pour la détermination de la turbidité des liquides de culture par une simple méthode spectrophotométrique*

| Capacity<br>*Capacité*<br>ml | Culture volume<br>*Volume de culture*<br>ml | Sidearm size<br>*Dimensions du bras*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 300 | 200 | 12 x 130 | **5.599.011** |
| 300 | 200 | 14 x 130 | **5.599.012** |
| 300 | 200 | 18 x 130 | **5.599.013** |
| 500 | 250 | 12 x 130 | **5.599.014** |
| 500 | 250 | 14 x 130 | **5.599.015** |
| 500 | 250 | 18 x 130 | **5.599.016** |
| 1000 | 600 | 12 x 130 | **5.599.017** |
| 1000 | 600 | 14 x 130 | **5.599.018** |
| 1000 | 600 | 18 x 130 | **5.599.019** |




**5.590.02***

**Nephelo culture flasks „BIOGEN“** with lateral sidearm, made of borosilicate glass,

***Flacon à culture Néphélométrique*** *en verre borosilicaté BIOGEN à col central évasé et à bras latéral, pour la détermination de la turbidité des liquides de culture par une simple méthode spectrophotométrique*

| Capacity<br>*Capacité*<br>ml | Culture volume<br>*Volume de culture*<br>ml | Sidearm size<br>*Dimensions du bras*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 350 | 12 x 130 | **5.599.021** |
| 500 | 350 | 14 x 130 | **5.599.022** |
| 500 | 350 | 18 x 130 | **5.599.023** |

**Triple battled Nephelo culture flasks „BIOGEN“,** with lateral sidearm, with 38 mm neck for metal caps, made of borosilicate glass,

***Flacon à culture Néphélométrique*** *en verre borosilicaté BIOGEN à 3 cavités et à col central pour fermeture en métal de 38 mm pour la détermination de la turbidité des liquides de culture par une simple méthode spectrophotométrique*

| Capacity<br>*Capacité*<br>ml | Culture volume<br>*Volume de culture*<br>ml | Sidearm size<br>*Dimensions du bras*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 300 | 50 | 12 x 130 | **5.599.031** |
| 300 | 50 | 14 x 130 | **5.599.032** |
| 300 | 50 | 18 x 130 | **5.599.033** |



**5.590.04***

**Triple battled Nephelo culture flasks „BIOGEN“,** with lateral sidearm, with cleanout GL 18, complete, made of borosilicate glass,

***Flacon à culture Néphélométrique*** *en verre borosilicaté BIOGEN à 3 cavités et à col central à bouchon GL 38 et latéral GL 18, pour la détermination de la turbidité des liquides de culture par une simple méthode spectrophotométrique*

| Capacity<br>*Capacité*<br>ml | Culture volume<br>*Volume de culture*<br>ml | Sidearm size<br>*Dimensions du bras*<br>mm | Medium neck | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 300 | 135 | 12 x 130 | - | **5.599.041** |
| 300 | 135 | 14 x 130 | - | **5.599.042** |
| 300 | 135 | 18 x 130 | - | **5.599.043** |
| 300 | 200 | 14 x 130 | GL 32 | **5.599.044** |
| 300 | 200 | 18 x 130 | GL 32 | **5.599.045** |
| 500 | 250 | 14 x 130 | GL 32 | **5.599.046** |
| 500 | 250 | 18 x 130 | GL 32 | **5.599.047** |

**Evaporating dishes, watch glass shape,** thin glass, fire-polished rim, made of soda lime glass

***Verres de montre*** *en verre mince de chimie*

| Inner Ø<br>*Ø int.*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 40 | 50 | **5.600.040** |
| 50 | 50 | **5.600.050** |
| 60 | 50 | **5.600.060** |
| 70 | 25 | **5.600.070** |
| 80 | 10 | **5.600.080** |
| 100 | 10 | **5.600.100** |
| 125 | 10 | **5.600.125** |
| 150 | 10 | **5.600.150** |
| 175 | 10 | **5.600.175** |
| 200 | 10 | **5.600.200** |
| 250 | 5 | **5.600.250** |

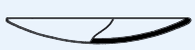


**5.600.*****

**Evaporating dishes, watch glass shape,** thin glass, fire-polished rim, made of borosilicate glass

***Verres de montre,*** *en verre mince borosilicaté, avec bordure polie*

| Inner Ø<br>*Ø int.*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 40 | 10 | **5.601.040** |
| 50 | 10 | **5.601.050** |
| 60 | 10 | **5.601.060** |
| 80 | 10 | **5.601.080** |
| 100 | 10 | **5.601.100** |
| 125 | 10 | **5.601.125** |
| 150 | 10 | **5.601.150** |
| 200 | 10 | **5.601.200** |
| 250 | 5 | **5.601.250** |



**5.601.*****



5.611.***

**Aspirator bottles,** narrow neck, with screw-thread stopper and screw-thread stopcock, made of borosilicate glass

***Barils en verre borosilicaté,*** *à col étroit avec bouchon à vis et robinet de décharge à vis*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Bore of plug<br>mm | Neck<br>GL | Sidearm neck<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 1000 | 225 | 101 | 4 | 45 | 32 | **5.611.001** |
| 2000 | 262 | 136 | 4 | 45 | 32 | **5.611.002** |
| 5000 | 335 | 183 | 8 | 45 | 32 | **5.611.005** |
| 10000 | 410 | 230 | 8 | 45 | 32 | **5.611.010** |



5.614.***

**Aspirator bottles,** narrow neck, with ST-stopper and ST-stopcock, made of borosilicate glass

***Barils en verre borosilicaté,*** *à col étroit avec bouchon à rodage et robinet à rodage*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Bore of plug<br>mm | Neck<br>ST | Sidearm neck<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 500 | 165 | 89 | 4 | 24/29 | 19/26 | **5.614.500** |
| 1000 | 200 | 110 | 4 | 29/32 | 19/26 | **5.614.001** |
| 2000 | 245 | 136 | 4 | 29/32 | 19/26 | **5.614.002** |
| 5000 | 318 | 186 | 8 | 45/40 | 29/32 | **5.614.005** |
| 10000 | 389 | 234 | 8 | 60/46 | 29/32 | **5.614.010** |
| 20000 | 492 | 300 | 8 | 60/46 | 29/32 | **5.614.020** |

**Aspirator bottles,** narrow neck, with ST-stopper and ST-stopcock, made of borosilicate glass

***Barils en verre borosilicaté,*** *à col étroit avec bouchon à rodage et robinet à rodage*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Bore of plug<br>mm | Neck<br>ST | Sidearm neck<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 500 | 165 | 89 | 4 | 24/29 | 19/26 | **5.614.500 B** |
| 1000 | 200 | 110 | 4 | 29/32 | 19/26 | **5.614.001 B** |
| 2000 | 245 | 136 | 4 | 29/32 | 19/26 | **5.614.002 B** |
| 5000 | 318 | 186 | 8 | 45/40 | 29/32 | **5.614.005 B** |
| 10000 | 389 | 234 | 8 | 60/46 | 29/32 | **5.614.010 B** |
| 20000 | 492 | 300 | 8 | 60/46 | 29/32 | **5.614.020 B** |



5.624.***

**Calcium Chloride towers,** made of borosilicate glass, with thread cap GL 45 needle valve stopcock and stable foot made of plastic

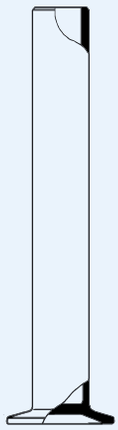
***Colonnes à dessécher les gaz (CaCl)***
*en verre borosilicaté avec bouchon à vis GL 45, robinet à vanne à aiguille et base en plastique*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 240 | 40 | **5.624.101** |
| 315 | 45 | **5.624.102** |
| 420 | 55 | **5.624.103** |
| 500 | 75 | **5.624.104** |

**Jars with foot,** rough ground rim, made of borosilicate glass

***Jarres sur pied***
*en verre borosilicaté, avec bord rodé*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 150 | 50 | **5.628.003** |
| 200 | 40 | **5.628.004** |
| 200 | 60 | **5.628.005** |
| 250 | 60 | **5.628.007** |
| 300 | 40 | **5.628.010** |
| 300 | 50 | **5.628.011** |
| 400 | 40 | **5.628.014** |
| 400 | 80 | **5.628.016** |
| 450 | 65 | **5.628.019** |
| 500 | 50 | **5.628.020** |

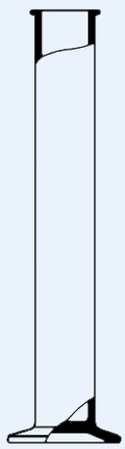


**5.628.*****

**Jars with foot,** rim rolled, cut, made of borosilicate glass

***Jarres sur pied***
*en verre borosilicaté, avec col évasé*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 40 | **5.630.000** |
| 200 | 40 | **5.630.004** |
| 200 | 60 | **5.630.005** |
| 250 | 60 | **5.630.007** |
| 400 | 40 | **5.630.014** |
| **Accessories /** *Accessoires* | | |
| Suitable cover dics for jars with 40mm Ø<br>*Disque de fermeture pour jarres de dia. 40 mm* | | **5.631.040** |
| Suitable cover dics for jars with 60mm Ø<br>*Disque de fermeture pour jarres de dia. 60 mm* | | **5.631.060** |



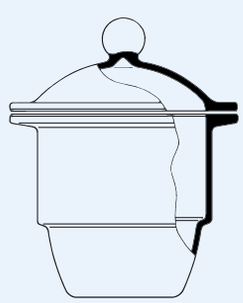
**5.630.*****

## Desiccators
## *Dessicateurs*

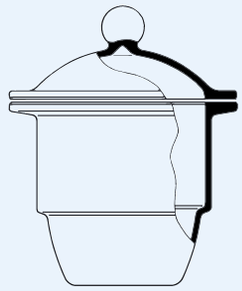
**Desiccators „NOVUS“**
with interchangeable knobbed lid
made of DURAN, without porcelain disc

***Dessicateur de NOVUS***
*en verre Duran à couvercle à bouton interchangeable, sans disque en porcelaine*

| Inner Ø<br>*Ø int*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 8.662.801 | 8.535.001 | **5.650.100** |
| 150 | 8.662.003 | 8.535.003 | **5.650.150** |
| 200 | 8.662.005 | 8.535.005 | **5.650.200** |
| 250 | 8.662.006 | 8.535.006 | **5.650.250** |
| 300 | 8.662.007 | 8.535.007 | **5.650.300** |



**5.650.*****

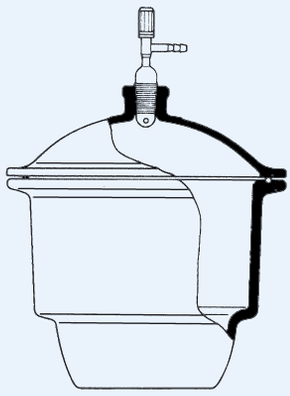


5.650.***

**Desiccators „NOVUS“**
with interchangeable knobbed lid, made of borosilicate glass, without porcelain disc

***Dessicateur de NOVUS***
*en verre borosilicaté à couvercle à bouton interchangeable, sans disque en porcelaine*

| Inner Ø<br>*Ø int*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 8.662.801 | 8.535.001 | **5.650.100 B** |
| 150 | 8.662.003 | 8.535.003 | **5.650.150 B** |
| 200 | 8.662.005 | 8.535.005 | **5.650.200 B** |
| 250 | 8.662.006 | 8.535.006 | **5.650.250 B** |
| 300 | 8.662.007 | 8.535.007 | **5.650.300 B** |



5.660.***

**Desiccators „NOVUS“**
with tubulated lid, with needle valve stopcock and cone ST 24/29, made of DURAN, without porcelain disc

***Dessicateur de NOVUS***
*en verre Duran avec couvercle à robinet RN 24/29, sans disque en porcelaine*

| Inner Ø<br>*Ø int*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 8.662.801 | 8.535.001 | **5.660.100** |
| 150 | 8.662.003 | 8.535.003 | **5.660.150** |
| 200 | 8.662.005 | 8.535.005 | **5.660.200** |
| 250 | 8.662.006 | 8.535.006 | **5.660.250** |
| 300 | 8.662.007 | 8.535.007 | **5.660.300** |

**Desiccators „NOVUS“**
with tubulated lid, with needle valve stopcock and cone ST 24/29, made of borosilicate glass, without porcelain disc

***Dessicateur de NOVUS***
*en verre borosilicaté avec couvercle à robinet RN 24/29, sans disque en porcelaine*

| Inner Ø<br>*Ø int*<br>mm | Metal plates<br>*Disque en métal* | Porcelain plates<br>*Disque en porcelaine* | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 8.662.801 | 8.535.001 | **5.660.100 B** |
| 150 | 8.662.003 | 8.535.003 | **5.660.150 B** |
| 200 | 8.662.005 | 8.535.005 | **5.660.200 B** |
| 250 | 8.662.006 | 8.535.006 | **5.660.250 B** |
| 300 | 8.662.007 | 8.535.007 | **5.660.300 B** |



5.661.***

**Desiccator, Vacuum, Splinter and implosion safety protefan-coated,** complete with adapters and one manometer, tubulators in lid and side tube, ST 24/29, with ring nut, with 2 PTFE-needle valve stopcocks, 250 mm Ø, made of borosilicate glass, the vacuumeter can be used in lid or side tubulature

***Dessicateur sous vide avec gainage de sécurité synthétique,*** *de diamètre 250mm, en verre borosilicaté, équipé d'un vacuomètre pouvant être utilisé sur le couvercle ou latéralement, livré avec des adaptateurs à RN 24/29 et deux robinets à pointeau en téflon, sans disque en porcelaine*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **5.661.250** |
| **Spare parts /** *Pièces de rechange* | |
| Adapters, 2 x GL 25, complete with caps, with silicone seals PTFE-covered<br>*Adaptateurs 2xGL25 complet avec capuchons et joints en silicone revêtus de téflon* | **5.661.001** |
| PTFE-needle valve stopcock<br>*Robinet à pointeau en PTFE* | **5.661.002** |
| Vacuumeter, analog, 1000...0 mbar, 760...0 mm/Hg<br>*Vacuomètre à aiguille 1000...0 mbar, 760...0 mm/Hg* | **5.661.003** |

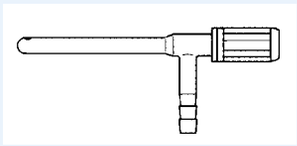
## Accessories for dessicators

*Accessoires pour dessicateurs*

**Stopcock, type MOBILEX,** with PTFE-needle valve stopcock, for thread-connection, made of borosilicate glass

***Robinet type Mobilex*** *à pointeau en téflon à raccord à vis, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | 5.662.002 |

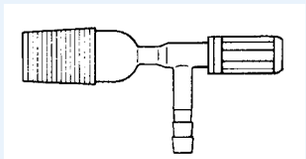


5.662.002

**Stopcock,** for lateral tubulature, type NOVUS, with PTFE-needle valve stopcock, with overtwist device, ST 24/29, made of borosilicate glass

***Robinet*** *pour utilisation latérale type NOVUS, à pointeau en téflon et à rodage RN 24/29, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | 5.662.003 |



5.662.003

**Stopcock,** with FCH-V 24/29, fat-free heigh vacuum joint, made of borosilicate glass

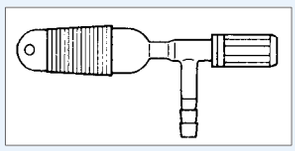
***Robinet*** *avec raccord FCH-V 24/29, exempt de graissage, à joint pour vide poussé, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | 5.662.004 |

**Stopcock,** for lids, type NOVUS, with PTFE-needle valve stopcock, with overtwist device, ST 24/29, made of borosilicate glass

***Robinet*** *avec raccord FCH-V 24/29, exempt de graissage, à joint pour vide poussé, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | 5.662.005 |



5.662.005

**Stopcock,** with FCH-V 24/29, fat-free heigh vacuum joint, made of borosilicate glass

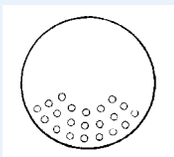
***Robinet*** *pour couvercle avec raccord FCH-V 24/29, exempt de graissage, à joint pour vide poussé, en verre borosilicaté*

| | Order No.<br>*N° de code* |
|---|---|
| | 5.662.006 |

**Desiccator plates, made of porcelain,** without feet, wit 20 mm Ø center hole and many small holes 5 mm Ø

***Disques en porcelaine***

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 90 | 8.535.001 |
| 140 | 8.535.003 |
| 190 | 8.535.005 |
| 235 | 8.535.006 |
| 280 | 8.535.007 |

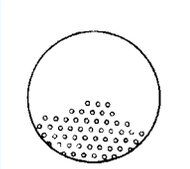


8.535.***

**Desiccator plates, made of metal**

***Disques en métal***

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 90 | 8.662.001 |
| 140 | 8.662.003 |
| 190 | 8.662.005 |
| 235 | 8.662.006 |
| 280 | 8.662.007 |



8.662.***

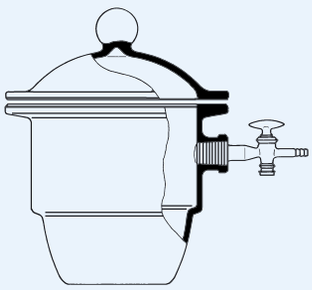


5.663.***

**Vacuum-safety-bottle Levasint-coated** splinter and implosion protection, 500 ml, with 3 necks, center neck GL 25, side necks GL 18, with suction tube with safety valve, analog-manometer, with air-suction tube with PTFE-needle valve stopcock

***Flacon de Woulff pour vide en verre gainé Levasint de sécurité,*** *capacité 500 ml à 3 cols à bouchons à visser, GL 25 au centre et GL 18 pour les deux latéraux, équipé d'un tube d'aspiration à vanne de sécurité, d'un vacuomètre analogue, d'un tube d'aspiration d'air avec robinet à pointeau en PTFE*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | 5.663.000 |
| **Spare parts /** *Pièces de rechange* | |
| Vacuumeter, analog, 1000...0 mbar, 760...0 mm/Hg<br>*Vacuomètre analogue 1000...0mbar, 760...0 mm/Hg* | 5.661.003 |
| Safety vacuum bottle, without screw caps and seals<br>*Flacon en verre gainé Levasint, sans bouchons et sans joints* | 5.663.001 |
| Suction tube with safety valve<br>*Tube d'aspiration avec vanne de sécurité* | 5.663.002 |
| Air suction tube with PTFE-needle valve stopcock<br>*Tube d'aspiration d'air avec robinet à pointeau en PTFE* | 5.663.003 |



5.670.***

**Desiccators „NOVUS“** with ST-stopcock and cone ST 24/29 in side tubulature and interchangeable knobbed lid, made of borosilicate glass

***Dessicateur de NOVUS*** *en verre borosilicaté avec couvercle à bouton et tubulure latérale à robinet à vide RN 24/29*

| Inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 100 | 5.670.100 |
| 150 | 5.670.150 |
| 200 | 5.670.200 |
| 250 | 5.670.250 |
| 300 | 5.670.300 |



5.720.***

**Mortars with foot and spout** with pestle, low form, bottom unground, inside smooth, made of borosilicate glass

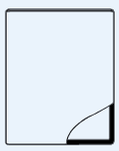
***Mortiers en verre borosilicaté à forme basse,*** *avec pilon*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 65 | 5.720.001 |
| 120 | 75 | 5.720.002 |
| 145 | 85 | 5.720.003 |

**Mortars with pestle,** made of agate

***Mortier en agate,*** *avec pilon*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext*<br>mm | Outer Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 50 | 40 | 5.720.101 |
| 24 | 75 | 60 | 5.720.102 |
| 50 | 100 | 80 | 5.720.103 |
| 100 | 125 | 105 | 5.720.104 |
| 200 | 150 | 125 | 5.720.105 |



5.740.***

**Pneumatic glass tanks, cylindrical,** with polished rim, made of borosilicate glass

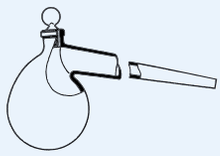
***Cuves cylindriques,*** *en verre borosilicaté*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 200 | 150 | 5.740.001 |
| 200 | 200 | 5.740.002 |
| 200 | 250 | 5.740.003 |
| 350 | 350 | 5.740.005 |

**Retorts with tubulature and ground-in stopper,** made of SBW-borosilicate glass

***Vases sphériques à tubulure et bouchon de fermeture à rodage,*** *en verre borosilicaté*

| **Capacity**<br>***Capacité***<br>**ml** | **Order No.**<br>***N° de code*** |
|---|---|
| 100 | **5.750.100** |
| 250 | **5.750.250** |
| 500 | **5.750.500** |



**5.750.*****

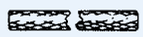
**Spirit lamp,** flat conical shape, with ground-on cup, made of SBW-borosilicate glass

***Lampe à alcool, forme conique,*** *à fond plat, en verre borosilicaté*

| **Capacity**<br>***Capacité***<br>**ml** | **Order No.**<br>***N° de code*** |
|---|---|
| 100 | **5.760.100** |
| **Spare parts /** *Pièces de rechange* | |
| Wicks<br>*Mêches* | **5.760.300** |
| Socket of non-corrosive metal<br>*Raccord en métal non-corrosif* | **5.760.400** |



**5.760.*****



**5.760.300**



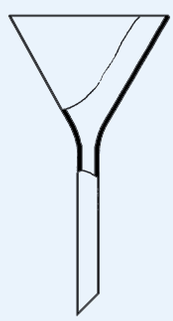
**5.760.400**

## Funnels
## *Entonnoirs*

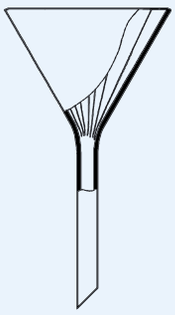
**Funnels, plain, angle 60 °**
acc. to DIN 12445, Made of soda lime glass

***Entonnoirs de 60°,*** *en verre de chimie*

| **Outer Ø**<br>***Ø ext.***<br>**mm** | **Order No.**<br>***N° de code*** |
|---|---|
| 30 | **5.770.001** |
| 35 | **5.770.002** |
| 40 | **5.770.003** |
| 45 | **5.770.004** |
| 50 | **5.770.005** |
| 55 | **5.770.006** |
| 60 | **5.770.007** |
| 70 | **5.770.008** |
| 80 | **5.770.009** |
| 100 | **5.770.010** |
| 120 | **5.770.011** |
| 150 | **5.770.012** |
| 200 | **5.770.014** |



**5.770.*****



5.780.***

**Funnels, ribbed, angle 60 °**
made of borosilicate glass

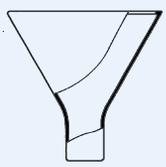
***Entonnoirs de 60° à rainures***
*en verre borosilicaté*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 70 | **5.780.001** |
| 80 | **5.780.002** |
| 100 | **5.780.003** |
| 150 | **5.780.004** |
| 200 | **5.780.005** |

**Analytical funnels, for rapid filtration**

***Entonnoirs analytiques pour filtration rapide***

| Outer Ø<br>*Ø ext.*<br>mm | Stem length<br>mm | Stem outer Ø<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|---|---|
| 65 | 150 | 8 | **5.780.065** | **5.780.065 B** |
| 80 | 150 | 8 | **5.780.080** | **5.780.080 B** |
| 110 | 150 | 9 | **5.780.110** | **5.780.110 B** |



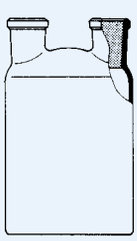
5.790.***

**Powder funnels, with short wide stem**

***Entonnoirs pour poudre à tige courte et large***

| Outer Ø<br>*Ø ext.*<br>mm | DURAN | Borosilicate glass<br>*verre borosilicaté* |
|---|---|---|
| 50 | **5.790.001** | **5.790.001 B** |
| 60 | **5.790.002** | **5.790.002 B** |
| 70 | **5.790.003** | **5.790.003 B** |
| 80 | **5.790.004** | **5.790.004 B** |
| 90 | **5.790.005** | **5.790.005 B** |
| 100 | **5.790.006** | **5.790.006 B** |
| 120 | **5.790.007** | **5.790.007 B** |
| 130 | **5.790.008** | **5.790.008 B** |
| 160 | **5.790.009** | **5.790.009 B** |
| 200 | **5.790.010** | **5.790.010 B** |

## Woulff bottles
## *Flacons de Woulff*



5.801.***

**Woulff bottles,** with 2 ST- side-necks GL 18 and center neck GL 25 and screw-caps, made of borosilicate glass

***Flacons de Woulff,*** *en verre borosilicaté, à 2 cols latéraux à vis GL18 et un col central à vis GL 25 avec bouchons*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 155 | 85 | **5.801.500** |
| 1000 | 185 | 110 | **5.801.001** |
| 2000 | 225 | 130 | **5.801.002** |

**Woulff bottles with bottom tubus,** with 2 ST- side-necks GL 18 and center neck GL 25 and screw-caps, made of borosilicate glass

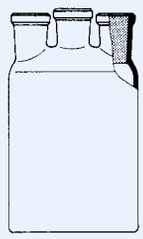
***Flacons de Woulff,*** *en verre borosilicaté, avec tubulure basse, à 2 cols latéraux à vis GL18 et un col central à vis GL 25 avec bouchons*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 155 | 85 | **5.802.500** |
| 1000 | 185 | 110 | **5.802.001** |
| 2000 | 225 | 130 | **5.802.002** |

**Woulff bottles with 3 ST-necks**
made of borosilicate glass

***Flacons de Woulff,*** *en verre borosilicaté, à 3 cols*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 155 | 85 | **5.810.500** |
| 1000 | 185 | 110 | **5.810.001** |
| 2000 | 225 | 130 | **5.810.002** |
| 5000 | 290 | 185 | **5.810.005** |
| 10000 | 345 | 225 | **5.810.010** |

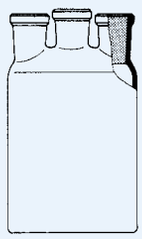


**5.810.*****

**Woulff bottles with 3 ST-necks and tubus,**
made of borosilicate glass

***Flacons de Woulff,*** *en verre borosilicaté, à 3 cols et tubulure basse*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 155 | 85 | **5.811.500** |
| 1000 | 185 | 110 | **5.811.001** |
| 2000 | 225 | 130 | **5.811.002** |
| 5000 | 290 | 185 | **5.811.005** |
| 10000 | 345 | 225 | **5.811.010** |

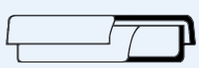


**5.811.*****

**Petri dishes „ANUMBRA"**
for highest requirements, glass quality of 3rd hydrolytical class, free from bubbles and other imperfections, bottom dish and lid inside and outside absolutely plane

***Boites de Petri "Anumbra"***
*en verre de haute qualité extrêment plan*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 12 | 40 | **5.830.001** |
| 15 | 60 | **5.830.002** |
| 15 | 80 | **5.830.003** |
| 15 | 100 | **5.830.004** |
| 20 | 100 | **5.830.005** |
| 20 | 120 | **5.830.006** |
| 25 | 150 | **5.830.007** |
| 30 | 180 | **5.830.008** |
| 30 | 200 | **5.830.009** |
| 50 | 200 | **5.830.010** |
| 12 | 50 | **5.830.012** |

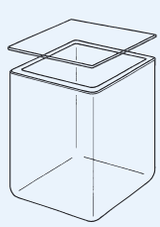


**5.830.*****

**Museum jars, heavy glass,** with ground-on cover plate, made of Borosilicate glass

***Jarres en verre borosilicaté épais,*** *avec couvercle rodé*

| Height<br>*Hauteur*<br>mm | Length<br>*Longueur*<br>mm | Width<br>Largeur<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 60 | 50 | **5.862.003** |
| 120 | 100 | 50 | **5.862.005** |
| 130 | 130 | 50 | **5.862.006** |
| 150 | 150 | 50 | **5.862.010** |
| 160 | 120 | 90 | **5.862.011** |
| 180 | 120 | 60 | **5.862.012** |
| 210 | 100 | 210 | **5.862.013** |
| 250 | 140 | 250 | **5.862.014** |
| other sizes on request/ | | | |



**5.862.*****

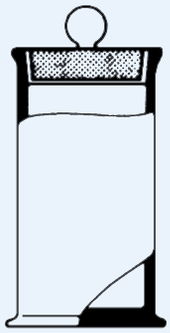
**Exhibition glasses,** made of DURAN

***Vases d'exposition,*** *en verre Duran*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 34,5 | **5.863.010** |
| 300 | 45 | **5.863.030** |
| 600 | 50 | **5.863.060** |
| 750 | 60 | **5.863.075** |
| 1200 | 60 | **5.863.120** |




**5.863.*****

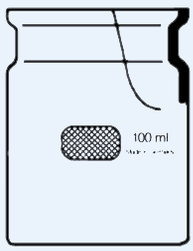


**5.864.*****

**specimen jars,** with ground knobcover, made of DURAN

***Jarres à spécimen,*** *avec couvercle de fermeture rodé, en verre Duran*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 60 | 60 | **5.864.001** |
| 100 | 60 | **5.864.002** |
| 100 | 100 | **5.864.003** |
| 120 | 80 | **5.864.004** |
| 120 | 120 | **5.864.005** |
| 150 | 80 | **5.864.006** |
| 150 | 105 | **5.864.007** |
| 150 | 150 | **5.864.008** |
| 200 | 100 | **5.864.009** |
| 200 | 150 | **5.864.010** |
| 250 | 100 | **5.864.011** |
| 250 | 150 | **5.864.012** |
| 300 | 120 | **5.864.013** |
| 300 | 250 | **5.864.014** |

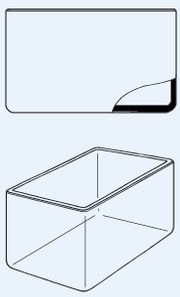



**5.864.1****

**Organ storage glasses,** wide mouth, with polished rim, complete with lid, made of soda glass

***Jarres pour stockage d'organe,*** *à large ouverture avec couvercle, en verre de chimie*

| Cone<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 75 | **5.864.101** |
| 100 | **5.864.102** |
| 250 | **5.864.103** |



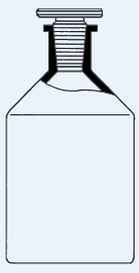
**5.866.*****

**Aquariums, heavy walled,** with roughly ground rim, made of Soda glass

***Aquariums en verre de chimie épais***

| Height<br>*Hauteur*<br>mm | Length<br>*Longueur*<br>mm | Width<br>Largeur<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 100 | 100 | **5.866.001** |
| 150 | 150 | 100 | **5.866.002** |
| 130 | 180 | 180 | **5.866.004** |
| 200 | 200 | 150 | **5.866.005** |
| 220 | 250 | 180 | **5.866.009** |
| 240 | 300 | 220 | **5.866.010** |
| 260 | 360 | 230 | **5.866.012** |

## Bottles
## *Flacons*



**5.868.*****



**5.869.*****

**Bottles,** conical shoulder, narrow neck, with ST-glass stopper, made of Soda glass

***Flacons à réactif*** *en verre de chimie, à étroite ouverture avec bouchon à rodage normalisé en verre*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|---|
| 50 | 14/15 | **5.868.050** | **5.869.050** |
| 100 | 14/23 | **5.868.100** | **5.869.100** |
| 250 | 19/26 | **5.868.250** | **5.869.250** |
| 500 | 24/29 | **5.868.500** | **5.869.500** |
| 1000 | 29/32 | **5.868.001** | **5.869.001** |
| 2000 | 29/32 | **5.868.002** | **5.869.002** |

**Bottles,** conical shoulder, narrow neck, made of Soda glass, with clear ST-polyethylene stopper

***Flacons à réactif*** *en verre de chimie, à étroite ouverture avec bouchon à rodage normalisé en polyéthylène*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|---|
| 50 | 14/15 | **5.870.050** | **5.871.050** |
| 100 | 14/23 | **5.870.100** | **5.871.100** |
| 250 | 19/26 | **5.870.250** | **5.871.250** |
| 500 | 24/29 | **5.870.500** | **5.871.500** |
| 1000 | 29/32 | **5.870.001** | **5.871.001** |
| 2000 | 29/32 | **5.870.002** | **5.871.002** |

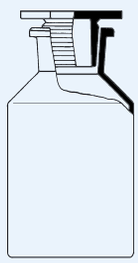

**5.870.*****


**5.871.*****

**Bottles,** conical shoulder, wide mouthed, with ST-glass stopper, made of Soda glass

***Flacons à réactif*** *en verre de chimie, à large ouverture avec bouchon à rodage normalisé en verre*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|---|
| 50 | 14/15 | **5.873.050** | **5.874.050** |
| 100 | 14/23 | **5.873.100** | **5.874.100** |
| 250 | 19/26 | **5.873.250** | **5.874.250** |
| 500 | 24/29 | **5.873.500** | **5.874.500** |
| 1000 | 29/32 | **5.873.001** | **5.874.001** |
| 2000 | 29/32 | **5.873.002** | **5.874.002** |

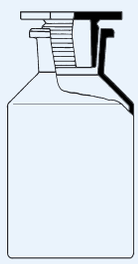

**5.873.*****


**5.874.*****

**Bottles,** conical shoulder, wide mouthed, made of Soda glass, with ST-polyethylene stopper

***Flacons à réactif*** *en verre de chimie, à large ouverture avec bouchon à rodage normalisé en polyéthylène*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|---|
| 50 | 14/15 | **5.875.050** | **5.876.050** |
| 100 | 14/23 | **5.875.100** | **5.876.100** |
| 250 | 19/26 | **5.875.250** | **5.876.250** |
| 500 | 24/29 | **5.875.500** | **5.876.500** |
| 1000 | 29/32 | **5.875.001** | **5.876.001** |
| 2000 | 29/32 | **5.875.002** | **5.876.002** |


**5.875.*****


**5.876.*****

**Bottles,** conical shoulder, wide mouthed, made of borosilicate glass, with ST-glass stopper

***Flacons à réactif*** *en verre borosilicaté, à large ouverture avec bouchon à rodage normalisé en verre*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|---|
| 100 | 29/32 | **5.877.100** | **5.878.100** |
| 250 | 29/32 | **5.877.250** | **5.878.250** |
| 500 | 29/32 | **5.877.500** | **5.878.500** |
| 1000 | 29/32 | **5.877.001** | **5.878.001** |
| 2000 | 29/32 | **5.877.002** | **5.878.002** |
| 5000 | 29/32 | **5.877.005** | **5.878.005** |
| 10000 | 29/32 | **5.877.010** | **5.878.010** |


**5.877.*****


**5.878.*****

**Dropping bottles,** with interchangeable pipette, complete with rubber teat

***Flacon compte-gouttes,*** *en verre de chimie avec pipette à tétine interchangeable à rodage*

| Capacity<br>*Capacité*<br>ml | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|
| 50 | **5.880.050** | **5.881.050** |
| 100 | **5.880.100** | **5.881.100** |


**5.880.*****


**5.881.*****

**Dropping bottles TK**
with grooved flat stopper

***Flacon compte-gouttes,*** *en verre de chimie avec bouchon type casquette*

| Capacity<br>*Capacité*<br>ml | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|
| 50 | **5.882.050** | **5.883.050** |
| 100 | **5.882.100** | **5.883.100** |


**5.882.*****


**5.882.*****




**5.888.*****
**-**
**5.889.*****

**Bottles,** narrow neck, with DIN-screw thread, with screw cap, made of Soda glass

***Flacons en verre de chimie,*** *à étroite ouverture avec bouchon à vis en bakélite*

| Capacity<br>*Capacité*<br>ml | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|
| 30 | **5.888.030** | **5.889.030** |
| 50 | **5.888.050** | **5.889.050** |
| 100 | **5.888.100** | **5.889.100** |
| 125 | - | **5.889.125** |
| 150 | - | **5.889.150** |
| 200 | - | **5.889.200** |
| 250 | **5.888.250** | **5.889.250** |
| 500 | **5.888.500** | **5.889.500** |
| 1000 | **5.888.001** | **5.889.001** |
| 2000 | - | **5.889.002** |
| 2500 | - | **5.889.025** |




**5.890.*****
**-**
**5.891.*****

**Culture bottles (Meplatbottles),** with DIN-screw thread, with screw cap, made of Soda glass

***Flacons à culture plat*** *en verre de chimie avec bouchon à vis en bakélite*

| Capacity<br>*Capacité*<br>ml | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|
| 50 | **5.890.050** | **5.891.050** |
| 100 | **5.890.100** | **5.891.100** |
| 125 | **5.890.125** | **5.891.125** |
| 150 | - | **5.891.150** |
| 200 | **5.890.200** | **5.891.200** |
| 250 | **5.890.250** | **5.891.250** |
| 500 | - | **5.891.500** |
| 1000 | - | **5.891.001** |



**5.891.6****

**Rolled neck bottles, with snap on lid**
for universal use, made of clear glass

***Flacon-piluliers en verre,*** *avec cape en polyéthylène montée*

| Capacity<br>*Capacité*<br>ml | Height x outer Ø<br>*Hauteur x Ø ext.*<br>mm | Neck Ø<br>mm | Pack<br>pcs. | Clear glass<br>*verre clair* |
|---|---|---|---|---|
| 3 | 30 x 19 | 13 | 200 | **5.891.603** |
| 5 | 40 x 19 | 13 | 200 | **5.891.605** |
| 10 | 45 x 22 | 17 | 200 | **5.891.610** |
| 15 | 52 x 24 | 17 | 200 | **5.891.615** |
| 20 | 70 x 25 | 17 | 200 | **5.891.620** |
| 20 | 55 x 27 | 17 | 200 | **5.891.621** |
| 25 | 50 x 30 | 22 | 200 | **5.891.625** |
| 30 | 75 x 28 | 17 | 200 | **5.891.630** |
| 35 | 65 x 30 | 22 | 200 | **5.891.635** |
| 40 | 80 x 30 | 22 | 200 | **5.891.640** |
| 50 | 100 x 30 | 22 | 200 | **5.891.650** |
| 100 | 145 x 34 | 22 | 200 | **5.891.690** |



**5.891.7****

**Spare snap on lid for rolled neck bottles**
made of polyethylene

***Capes en polyéthylène naturel de remplacement***

| For neck Ø<br>mm | Pack<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 13 | 200 | **5.891.713** |
| 17 | 200 | **5.891.717** |
| 22 | 200 | **5.891.722** |

**Specimen bottles,** with DIN-screw thread, with screw cap, made of amber glass

***Flacons à échantillon,*** *(type Mc Cartney) en verre jaune, avec bouchon à vis en polyéthylène*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 5 | 5.892.005 |
| 10 | 5.892.010 |
| 15 | 5.892.015 |
| 20 | 5.892.020 |
| 30 | 5.892.030 |
| 50 | 5.892.050 |
| 75 | 5.892.075 |
| 100 | 5.892.100 |



5.892.***

**Specimen bottles,** with DIN-screw thread, made of clear glass, with screw cap, made of, polyethylene, for tests and pills etc.

***Flacons à échantillon*** *en verre clair, avec bouchon à vis en polyéthylène*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Screw thread<br>GL | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 41 | 20 | 18 | 5.892.105 |
| 10 | 55 | 20 | 18 | 5.892.110 |
| 15 | 45 | 27 | 25 | 5.892.115 |
| 20 | 50 | 27 | 25 | 5.892.120 |
| 30 | 75 | 27 | 25 | 5.892.130 |
| 50 | 90 | 90 | 25 | 5.892.150 |



5.892.1**

**Dropping bottles,** with dropper insert, with DIN-screw thread, GL 18, made of amber glass

***Flacon compte-gouttes*** *en verre jaune avec bouchon à vis speciale*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 5 | 5.893.005 |
| 10 | 5.893.010 |
| 15 | 5.893.015 |
| 20 | 5.893.020 |
| 30 | 5.893.030 |
| 50 | 5.893.050 |
| 75 | 5.893.075 |
| 100 | 5.893.100 |



5.893.***

**Dropping bottles,** Alpha with montur, with DIN-screw thread, GL 18, made of amber glass

***Flacon compte-gouttes*** *en verre jaune type Alpha avec monture et bouchon à vis*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 5 | 5.893.205 |
| 10 | 5.893.210 |
| 15 | 5.893.215 |
| 20 | 5.893.220 |
| 30 | 5.893.230 |
| 50 | 5.893.250 |
| 75 | 5.893.275 |
| 100 | 5.893.200 |



5.893.2**



**5.894.*****

**Bottles, wide mouthed,** with DIN-screw thread, with screw cap made of clear glass

***Flacons à col large*** *en verre clair, avec bouchon à vis en bakélite*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 25 | **5.894.025** |
| 30 | **5.894.030** |
| 50 | **5.894.050** |
| 75 | **5.894.075** |
| 100 | **5.894.100** |
| 125 | **5.894.125** |
| 150 | **5.894.150** |
| 200 | **5.894.200** |
| 250 | **5.894.250** |
| 300 | **5.894.300** |
| 500 | **5.894.500** |
| 1000 | **5.894.001** |
| 2000 | **5.894.002** |
| 5000 | **5.894.005** |

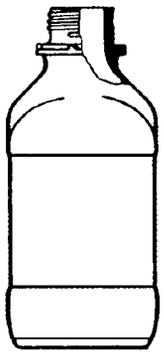


**5.895.*****

**Bottles, wide mouthed,** with DIN-screw thread, with screw cap made of amber glass

***Flacons à col large*** *en verre jaune, avec bouchon à vis en bakélite*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 25 | **5.895.025** |
| 30 | **5.895.030** |
| 50 | **5.895.050** |
| 75 | **5.895.075** |
| 100 | **5.895.100** |
| 125 | **5.895.125** |
| 150 | **5.895.150** |
| 200 | **5.895.200** |
| 250 | **5.895.250** |
| 300 | **5.895.300** |
| 500 | **5.895.500** |
| 1000 | **5.895.001** |
| 2000 | **5.895.002** |
| 3000 | **5.895.003** |
| 5000 | **5.895.005** |



**5.896.*****
**-**
**5.897.*****

**Square bottles, narrow mouthed,** with DIN-thread, made of glass, with pouring ring, without screw cap

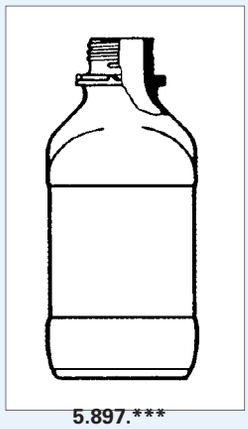
***Flacons carrés à col étroit*** *en verre, avec joint d'étanchéité en polyprolylène, sans bouchon*

| Capacity<br>*Capacité*<br>ml | Din-thread<br><br>GL | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|---|
| 100 | 32 | **5.896.100** | **5.897.100** |
| 250 | 32 | **5.896.250** | **5.897.250** |
| 500 | 32 | **5.896.500** | **5.897.500** |
| 1000 | 45 | **5.896.001** | **5.897.001** |

**Square bottles, narrow mouthed**
with DIN-thread, made of synthetic coated glass, with pouring ring and dustproof cap, made of polypropylene

***Flacons carrés à col étroit*** *en verre clair gainé synthétique, avec bouchon à vis et joint d'étanchéité en polyprolylène*

| Capacity<br>*Capacité*<br>ml | Din-thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 32 | **5.897.400** |
| 250 | 32 | **5.897.450** |
| 500 | 32 | **5.897.600** |
| 1000 | 45 | **5.897.701** |



**5.897.*****

**Tamper proof caps for square bottles**
made of polypropylene

***Bouchons à visser en PP****, pour les flacons carrés*

| Din-thread<br>*Filetage*<br>GL | Order No.<br>*N° de code* |
|---|---|
| 32 | **5.897.032** |
| 45 | **5.897.045** |

**Square bottles, wide mouthed,** with DIN-thread, made of glass, with pouring ring, without screw cap

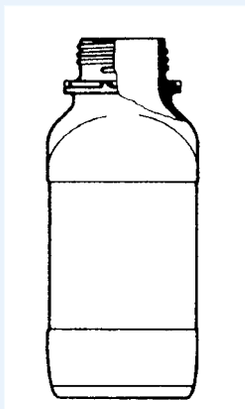
***Flacons carrés à col large*** *en verre, sans bouchon*

| Capacity<br>*Capacité*<br>ml | Din-thread<br>*Filetage*<br>GL | Clear glass<br>*verre clair* | Amber glass<br>*verre jaune* |
|---|---|---|---|
| 100 | 32 | **5.898.100** | **5.899.100** |
| 250 | 45 | **5.898.250** | **5.899.250** |
| 500 | 54 | **5.898.500** | **5.899.500** |
| 1000 | 60 | **5.898.001** | **5.899.001** |

**Square bottles, wide mouth**
with DIN-thread, made of synthetic coated glass, with pouring ring, without screw cap

***Flacons carrés à col large*** *en verre clair gainé synthétique, sans bouchon*

| Capacity<br>*Capacité*<br>ml | Din-thread<br>GL | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 32 | **5.899.110** |
| 250 | 45 | **5.899.260** |
| 500 | 54 | **5.899.510** |
| 1000 | 60 | **5.899.011** |



**5.899.*****

**Tamper proof caps for square bottles**
made of polypropylene, blue

***Bouchons à visser en PP bleu,*** *pour les flacons carrés*

| Din-thread<br>GL | Order No.<br>*N° de code* |
|---|---|
| 32 | **5.899.032** |
| 45 | **5.899.045** |
| 54 | **5.899.054** |
| 60 | **5.899.060** |

## Technical data, tubing, soda lime glass
### *Spécifications techniques des tubes en verre de chimie*

| O.D. *Dia. ext.* mm | Wall *Epaisseur* mm | Carton kg net. | Pcs.p. carton |
|---|---|---|---|
| 4 | 0.50 | 11 | 523 |
| 4 | 0.70 | 15 | 535 |
| 4 | 0.90 | 18 | 545 |
| 5 | 0.50 | 10 | 370 |
| 5 | 0.70 | 13 | 361 |
| 5 | 0.90 | 14 | 318 |
| 6 | 0.50 | 20 | 605 |
| 6 | 0.70 | 11 | 250 |
| 6 | 0.90 | 15 | 273 |
| 6 | 1.10 | 16 | 250 |
| 7 | 0.50 | 16 | 410 |
| 7 | 0.70 | 10 | 189 |
| 7 | 0.90 | 12 | 185 |
| 7 | 1.10 | 15 | 195 |
| 8 | 0.50 | 15 | 333 |
| 8 | 0.70 | 20 | 328 |
| 8 | 0.90 | 12 | 158 |
| 8 | 1.10 | 12 | 133 |
| 9 | 0.50 | 14 | 275 |
| 9 | 0.70 | 19 | 275 |
| 9 | 0.90 | 20 | 230 |
| 9 | 1.10 | 12 | 115 |
| 10 | 0.60 | 15 | 224 |
| 10 | 0.80 | 19 | 216 |
| 10 | 1.00 | 22 | 204 |
| 10 | 1.20 | 12 | 95 |
| 11 | 0.60 | 12 | 162 |
| 11 | 0.80 | 18 | 186 |
| 11 | 1.00 | 20 | 168 |
| 11 | 1.20 | 23 | 165 |
| 12 | 0.60 | 12 | 148 |
| 12 | 0.80 | 16 | 150 |
| 12 | 1.00 | 20 | 153 |
| 12 | 1.20 | 23 | 148 |
| 13 | 0.60 | 12 | 135 |
| 13 | 0.80 | 15 | 129 |
| 13 | 1.00 | 19 | 133 |
| 13 | 1.20 | 21 | 124 |
| 14 | 0.60 | 20 | 208 |
| 14 | 0.80 | 24 | 111 |
| 14 | 1.00 | 15 | 97 |
| 14 | 1.20 | 20 | 109 |
| 15 | 0.60 | 18 | 174 |
| 15 | 0.80 | 12 | 89 |
| 15 | 1.00 | 16 | 96 |
| 15 | 1.20 | 20 | 102 |
| 16 | 0.60 | 18 | 163 |
| 16 | 0.80 | 22 | 151 |
| 16 | 1.00 | 15 | 84 |
| 16 | 1.20 | 18 | 85 |
| 17 | 0.80 | 12 | 78 |
| 17 | 1.00 | 14 | 73 |
| 17 | 1.20 | 16 | 71 |
| 17 | 1.50 | 21 | 75 |
| 18 | 0.80 | 20 | 120 |
| 18 | 1.00 | 14 | 69 |
| 18 | 1.20 | 16 | 67 |
| 18 | 1.50 | 20 | 68 |
| 19 | 0.80 | 19 | 108 |
| 19 | 1.00 | 13 | 61 |
| 19 | 1.20 | 15 | 59 |
| 19 | 1.50 | 18 | 58 |
| 20 | 0.80 | 18 | 99 |
| 20 | 1.00 | 22 | 97 |
| 20 | 1.20 | 15 | 56 |
| 20 | 1.50 | 17 | 51 |
| 21 | 0.80 | 18 | 93 |
| 21 | 1.00 | 22 | 92 |
| 21 | 1.20 | 14 | 49 |
| 21 | 1.50 | 15 | 43 |
| 22 | 0.80 | 16 | 80 |
| 22 | 1.00 | 22 | 88 |
| 22 | 1.20 | 24 | 81 |
| 22 | 1.50 | 15 | 41 |
| 23 | 0.80 | 15 | 68 |
| 23 | 1.00 | 19 | 72 |
| 23 | 1.20 | 22 | 64 |
| 23 | 1.50 | 16 | 42 |
| 24 | 0.80 | 15 | 68 |
| 24 | 1.00 | 20 | 72 |
| 24 | 1.20 | 21 | 64 |
| 24 | 1.50 | 15 | 37 |
| 26 | 1.00 | 17 | 56 |
| 26 | 1.20 | 22 | 62 |
| 26 | 1.50 | 14 | 31 |
| 28 | 1.00 | 17 | 53 |
| 28 | 1.20 | 20 | 52 |
| 28 | 1.50 | 12 | 25 |
| 30 | 1.20 | 17 | 42 |
| 30 | 1.50 | 20 | 39 |
| 32 | 1.20 | 15 | 34 |
| 32 | 1.50 | 18 | 33 |
| 34 | 1.20 | 14 | 30 |
| 34 | 1.50 | 17 | 29 |
| 36 | 1.20 | 12 | 24 |
| 36 | 1.50 | 16 | 26 |
| 38 | 1.20 | 13 | 25 |
| 38 | 1.50 | 16 | 25 |
| 40 | 1.20 | 11 | 20 |
| 40 | 1.50 | 13 | 19 |

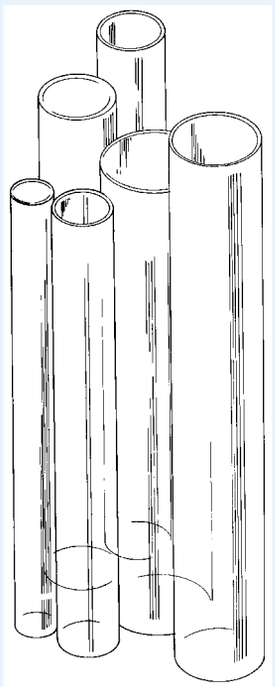
**Please add to the Order No. generally the outside Ø and the wall thicknes of the tubing or rods**

***Veuillez svp rajouter au No. de Code le diamètre extérieur du tube ou de la baguette***

**Tubings, soda lime glass**
Tubing length approx. 1500 mm

***Tube en verre de chimie***
*longueur 1500 mm*

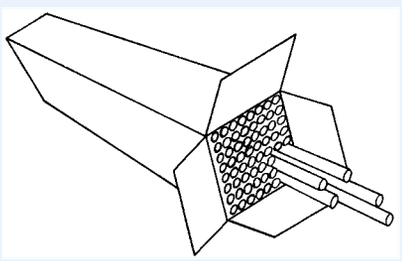
| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 4 to 5 | **5.900.00*** |
| 6 to 8 | **5.900.00*** |
| 9 to 30 | **5.900.0**** |
| 32 to 35 | **5.900.0**** |
| 36 to 40 | **5.900.0**** |



**Tubings for Barometers, soda lime glass**
Tubing length approx. 1500 mm

***Tubes pour baromètres, en verre de chimie***
*longueur 1500 mm*

| Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.* | Order No.<br>*N° de code* |
|---|---|---|
| 4 | 1 | **5.901.004** |
| 5 | 1 | **5.901.005** |
| 6 | 1 | **5.901.006** |
| 7 | 1 | **5.901.007** |
| 8 | 1 | **5.901.008** |
| 9 | 2 | **5.901.009** |
| 10 | 2 | **5.901.010** |
| 11 | 2 | **5.901.011** |
| 12 | 2 | **5.901.012** |

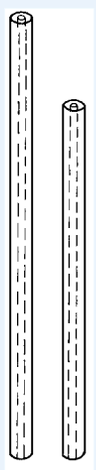


**5900.***
**-**
**5901.***

**Rods, soda lime glass**
Tubing length approx. 1500 mm

***Baguettes en verre de chimie***
*longueur 1500 mm*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 4 - 5 - 6 - 7 - 8 - 9 | **5.902.00*** |
| 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 | **5.902.0**** |



**5.902.***

## Technical data, tubing, DURAN
### *Spécifications techniques des tubes en verre Duran*

| O.D. *Dia. ext.* mm | Wall *Epaisseur* mm | Carton kg net. | Pcs.p. carton |
|---|---|---|---|
| 4 | 0.80 | 15 | 555 |
| 5 | 0.80 | 12 | 343 |
| 6 | 1.00 | 13 | 245 |
| 6 | 1.50 | 15 | 211 |
| 7 | 1.00 | 12 | 190 |
| 7 | 1.50 | 15 | 172 |
| 8 | 1.00 | 11 | 149 |
| 8 | 1.50 | 15 | 147 |
| 9 | 1.00 | 10 | 119 |
| 9 | 1.50 | 14 | 119 |
| 10 | 1.00 | 9 | 95 |
| 10 | 1.50 | 12 | 90 |
| 10 | 2.20 | 10 | 56 |
| 11 | 1.00 | 9 | 86 |
| 11 | 1.50 | 11 | 73 |
| 11 | 2.20 | 8.5 | 42 |
| 12 | 1.00 | 15 | 130 |
| 12 | 1.50 | 11 | 67 |
| 12 | 2.20 | 9.5 | 42 |
| 13 | 1.00 | 15 | 119 |
| 13 | 1.50 | 10 | 55 |
| 13 | 2.20 | 9 | 36 |
| 14 | 1.00 | 15 | 110 |
| 14 | 1.50 | 9 | 46 |
| 14 | 2.20 | 8.2 | 30 |
| 15 | 1.20 | 15 | 86 |
| 15 | 1.80 | 14 | 56 |
| 15 | 2.50 | 8.2 | 25 |
| 16 | 1.20 | 15 | 81 |
| 16 | 1.80 | 13.1 | 49 |
| 16 | 2.50 | 8.8 | 25 |
| 17 | 1.20 | 15 | 75 |
| 17 | 1.80 | 14 | 49 |
| 17 | 2.50 | 9.5 | 25 |
| 18 | 1.20 | 14 | 66 |
| 18 | 1.80 | 15 | 49 |
| 18 | 2.50 | 8.1 | 20 |
| 19 | 1.20 | 14 | 63 |
| 19 | 1.80 | 13.7 | 42 |
| 19 | 2.50 | 15.6 | 36 |
| 20 | 1.20 | 13 | 55 |
| 20 | 1.80 | 12.4 | 36 |
| 20 | 2.50 | 9.2 | 20 |
| 22 | 1.20 | 11 | 42 |
| 22 | 1.80 | 11.5 | 30 |
| 22 | 2.50 | 15.4 | 30 |
| 24 | 1.20 | 11 | 38 |
| 24 | 1.80 | 10.5 | 25 |
| 24 | 2.50 | 14 | 25 |
| 26 | 1.40 | 12 | 33 |
| 26 | 2.00 | 12.6 | 25 |
| 26 | 2.80 | 8.2 | 12 |
| 28 | 1.40 | 9.8 | 25 |
| 28 | 2.00 | 11 | 20 |
| 28 | 2.80 | 14.8 | 20 |
| 30 | 1.40 | 15.2 | 36 |
| 30 | 2.00 | 9.4 | 16 |
| 30 | 2.80 | 12.8 | 16 |
| 32 | 1.40 | 11.3 | 25 |
| 32 | 2.00 | 10.1 | 16 |
| 32 | 2.80 | 13.8 | 16 |
| 34 | 1.40 | 12.1 | 25 |
| 34 | 2.00 | 16 | 16 |
| 34 | 2.80 | 16 | 16 |
| 36 | 1.40 | 25 | 25 |
| 36 | 2.00 | 25 | 25 |
| 36 | 2.80 | 12 | 12 |
| 38 | 1.40 | 20 | 20 |
| 38 | 2.00 | 15 | 20 |
| 38 | 2.80 | 9.4 | 9 |
| 40 | 1.60 | 10.2 | 15 |
| 40 | 2.30 | 14.2 | 16 |
| 40 | 3.20 | 11.2 | 9 |
| 42 | 1.60 | 10.9 | 16 |
| 42 | 2.30 | 15.3 | 16 |
| 42 | 3.20 | 11.7 | 9 |
| 44 | 1.60 | 11.4 | 16 |
| 44 | 2.30 | 16 | 16 |
| 44 | 3.20 | 12.4 | 9 |
| 46 | 1.60 | 11.9 | 16 |
| 46 | 2.30 | 9.5 | 9 |
| 46 | 3.20 | 13 | 9 |
| 48 | 1.60 | 12.4 | 16 |
| 48 | 2.30 | 17.6 | 16 |
| 48 | 3.20 | 9 | 9 |
| 50 | 1.80 | 8.2 | 9 |
| 50 | 2.50 | 11.2 | 9 |
| 50 | 3.50 | 15.4 | 9 |
| 52 | 1.80 | 8.5 | 9 |
| 52 | 2.50 | 11.7 | 9 |
| 52 | 3.50 | 16 | 9 |
| 54 | 1.80 | 8.9 | 9 |
| 54 | 2.50 | 12.2 | 9 |
| 54 | 3.50 | 16.7 | 9 |
| 56 | 1.80 | 9.2 | 9 |
| 56 | 2.50 | 12.6 | 9 |
| 56 | 3.50 | 17.5 | 9 |
| 58 | 1.80 | 9.6 | 9 |
| 58 | 2.50 | 13.1 | 9 |
| 58 | 3.50 | 18 | 9 |
| 60 | 2.20 | 12 | 9 |
| 60 | 4.20 | 9.8 | 4 |

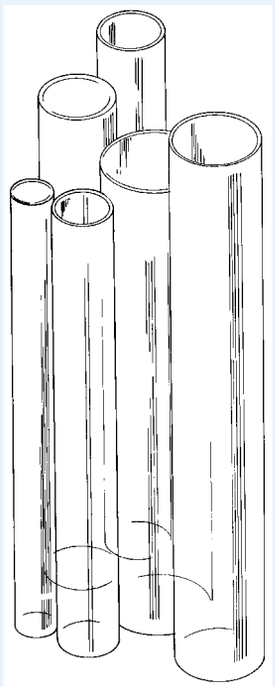
**Please add to the Order No. generally the outside Ø and the wall thicknes of the tubing or rods**

***Veuillez svp rajouter au No. de Code le diamètre extérieur du tube ou de la baguette***

**Tubings, DURAN-Borosilicate glass**
Tubing length approx. 1500 mm

***Tubes en verre Duran borosilicaté***
*longueur 1500 mm*

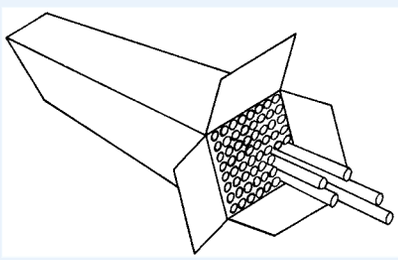
| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 4 to 6 | **5.904.00*** |
| 7 to 9 | **5.904.00*** |
| 10 to 30 | **5.904.0**** |
| 32 to 50 | **5.904.0**** |
| 52 to 60 | **5.904.0**** |
| Assortment, tubing, containing 31 different tubings in the range from 5 to 32 mm, Net weight 15 kg<br>*Assortiment de tubes contenant 31 tubes de diamètres 5 à 32 mm, Poids net 15 kg* | **5.904.100**<br>**5.904.100** |



**Capillary tubing**
**DURAN-Borosilicate glass**
Tubing length approx. 1500 mm

***Tubes capillaires, en verre Duran borosilicaté***
*longueur 1500 mm*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 4 | **5.906.004** |
| 5 | **5.906.005** |
| 6 | **5.906.006** |
| 7 | **5.906.007** |
| 8 | **5.906.008** |
| 9 | **5.906.009** |
| Assortment, capillary tubing, containing 20 different sizes in the range from 4 to 9 mm, Net weight 7 kg<br>*Assortiment de tubes capillaires contenant 20 tubes de diamètres 4 à 9 mm. Poids net 7 kg* | **5.906.100** |
| Please specify the exact inside Ø in your order (p. ex. 0.6 mm or 0.8 mm) | |

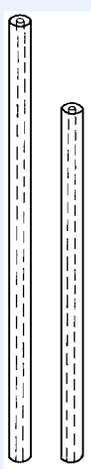


**5904.*** - 5906.*****

**Rods, DURAN-Borosilicate glass**
Tubing length approx. 1500 mm

***Baguettes en verre Duran borosilicaté***
*longueur 1500 mm*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 4 - 5 - 6 - 7 - 8 - 9 | **5.908.00*** |
| 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 | **5.908.0**** |
| Assortment, rods, containing 8 sizes from 4 to 12 mm, Net weight 7 kg<br>*Assortiment de baguettes contenant 8 tubes de diamètres 4 à 12 mm, Poids net 7 kg* | **5.908.100** |



**5.908.*****

**Removal barrels PE, lid made of PP.**
Rectangular-conical bin for the removal of dust in hospitals, all chemical and indstrial branches, with lid and special sealing ring, with 2 grips.
Security system:
- BAM-No 3122/1H2-3123/1H2 according GGVS, Exception S61

| Capacity<br>*Capacité*<br>lit. | Weight filled in<br>*Poids de remplissage*<br>max. kg | Dimensions<br>*Dimension*<br>mm | Weight<br>*Poids*<br>kg | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 30 | 15 | 330 x 400 x 305 | 1.3 | **6.980.030** |
| 60 | 30 | 330 x 400 x 610 | 1.8 | **6.980.060** |



**6.980.*****



7.000.***

**Graduated cylinder,** tall shape, transparent, made of Polypropylene (PP)

***Eprouvette graduée*** *en polypropylène (PP) transparent, à bec verseur, forme haute à base héxagonale, en Polypropylène*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.1 | 139 | 13.5 | **7.000.001** |
| 25 | 0.5 | 195 | 18.5 | **7.000.002** |
| 50 | 1 | 199 | 25.5 | **7.000.003** |
| 100 | 1 | 249 | 30.5 | **7.000.004** |
| 250 | 2 | 315 | 41.5 | **7.000.005** |
| 500 | 5 | 361 | 55 | **7.000.006** |
| 1000 | 10 | 438 | 66 | **7.000.007** |
| 2000 | 20 | 531 | 84 | **7.000.008** |



7.000.3**

**Graduated cylinder, class B,** with interchangeable plastic base, with short line graduation, blue colour, made of Polypropylene (PP)

***Eprouvette graduée, classe B,*** *en polypropylène (PP), avec bec verseur et graduations bleues, forme haute à base interchangeable en plastique*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>± ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 0.2 | 0.15 | **7.000.301** |
| 25 | 0.5 | 0.40 | **7.000.302** |
| 50 | 1 | 0.80 | **7.000.303** |
| 100 | 1 | 0.80 | **7.000.304** |
| 250 | 2 | 1.50 | **7.000.305** |
| 500 | 5 | 4.00 | **7.000.306** |
| 1000 | 10 | 8.00 | **7.000.307** |



7.001.***

**Graduated cylinder,** tall shape, crystal clear, made of Styrene-Acrylonitrile copolymer (SAN)

***Eprouvette graduée,*** *en copolymère d'acrylonitrile-styrène (SAN), à bec verseur, forme haute à base héxagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | 140 | 16 | **7.001.001** |
| 25 | 0.5 | 169 | 21 | **7.001.002** |
| 50 | 1 | 199 | 28 | **7.001.003** |
| 100 | 1 | 260 | 34 | **7.001.004** |
| 250 | 2 | 315 | 47 | **7.001.005** |
| 500 | 5 | 350 | 61 | **7.001.006** |
| 1000 | 10 | 415 | 76 | **7.001.007** |
| 2000 | 20 | 482 | 97 | **7.001.008** |



7.002.***

**Graduated cylinder,** tall shape, crystal clear, made of Polymethylpentene (PMP)

***Eprouvette graduée*** *en polyméthylpentène (PMP) transparent et rigide, à bec verseur, forme haute à base héxagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | OuterØ<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | 139 | 13.5 | **7.002.001** |
| 25 | 0.5 | 195 | 18.5 | **7.002.002** |
| 50 | 1 | 199 | 25.5 | **7.002.003** |
| 100 | 1 | 249 | 30.5 | **7.002.004** |
| 250 | 2 | 315 | 41.5 | **7.002.005** |
| 500 | 5 | 361 | 55 | **7.002.006** |
| 1000 | 10 | 438 | 66 | **7.002.007** |
| 2000 | 20 | 531 | 84 | **7.002.008** |



7.003.***

**Graduated cylinder,** tall shape, transparent, with blue graduation, made of Polypropylene (PP)

***Eprouvette graduée*** *en polypropylène (PP), à bec verseur et graduations bleues, forme haute à base hexagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | 139 | 13.5 | **7.003.001** |
| 25 | 0.5 | 195 | 18.5 | **7.003.002** |
| 50 | 1 | 199 | 25.5 | **7.003.003** |
| 100 | 1 | 149 | 30.5 | **7.003.004** |
| 250 | 2 | 315 | 41.5 | **7.003.005** |
| 500 | 5 | 361 | 55 | **7.003.006** |
| 1000 | 10 | 438 | 66 | **7.003.007** |
| 2000 | 20 | 531 | 84 | **7.003.008** |

**Graduated cylinder,** tall shape, crystal clear with blue graduation, made of Polymethylpentene (PMP)

***Eprouvette graduée*** *en polyméthylpentène (PMP), à bec verseur et graduations bleues, forme haute à base hexagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.2 | 139 | 13.5 | **7.004.001** |
| 25 | 0.5 | 195 | 18.5 | **7.004.002** |
| 50 | 1 | 199 | 25.5 | **7.004.003** |
| 100 | 1 | 249 | 30.5 | **7.004.004** |
| 250 | 2 | 315 | 41.5 | **7.004.005** |
| 500 | 5 | 361 | 55 | **7.004.006** |
| 1000 | 10 | 438 | 66 | **7.004.007** |
| 2000 | 20 | 531 | 84 | **7.004.008** |



**7.004.*****

**Hydrometer jar,** transparent, with overflow vessel and spout, with octagonal base, made of Polypropylene (PP)

***Eprouvette à densimètre graduée*** *en polypropylène (PP) transparent, à bec verseur et vase de débordement, forme haute à base hexagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 500 | 5 | 351 | 73 | **7.005.001** |



**7.005.*****

**Graduated cylinder,** low shape, transparent, made of Polypropylene (PP)

***Eprouvette graduée*** *en polypropylène (PP) transparent, à bec verseur, forme basse à base hexagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.25 | 88 | 16 | **7.006.000** |
| 25 | 1 | 107 | 22 | **7.006.001** |
| 50 | 2.5 | 143 | 29 | **7.006.002** |
| 100 | 5 | 178 | 34 | **7.006.003** |
| 250 | 10 | 264 | 45.5 | **7.006.004** |
| 500 | 10 | 305 | 55.5 | **7.006.005** |
| 1000 | 25 | 332 | 70 | **7.006.006** |
| 2000 | 50 | 370 | 92 | **7.006.007** |



**7.006.*****

**Graduated cylinder,** low shape, crystal clear, made of Styrene-Acrylonitrile copolymer (SAN)

***Eprouvette graduée,*** *en copolymère d'acrylonitrile-styrène (SAN), à bec verseur, forme basse à base héxagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 0.5 | 122 | 22 | **7.007.001** |
| 50 | 1 | 142 | 27 | **7.007.002** |
| 100 | 2 | 163 | 37 | **7.007.003** |
| 250 | 5 | 192 | 51 | **7.007.004** |
| 500 | 10 | 218 | 67 | **7.007.005** |
| 1000 | 20 | 285 | 78 | **7.007.006** |



**7.007.*****

**Graduated cylinder,** low shape, crystal clear, made of Polymethylpentene (PMP)

***Eprouvette graduée*** *en polyméthylpentène (PMP) , à bec verseur et graduations bleues, forme basse à base hexagonale*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 0.25 | 87 | 16 | **7.007.100** |
| 25 | 1 | 107 | 22 | **7.007.101** |
| 50 | 2.5 | 143 | 29 | **7.007.102** |
| 100 | 5 | 177 | 34.5 | **7.007.103** |
| 250 | 10 | 263 | 46 | **7.007.104** |
| 500 | 10 | 302 | 56 | **7.007.105** |
| 1000 | 25 | 331 | 71 | **7.007.106** |
| 2000 | 50 | 369 | 92 | **7.007.107** |



**7.007.1****



7.008.***

**Griffin beakers,** with spout, raised, made of polypropylene (PP)

***Bécher*** *en polypropylène (PP) transparent, gradué, à bec verseur, forme basse*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 1 | 49 | 34 | **7.008.002** |
| 50 | 2 | 60 | 41 | **7.008.003** |
| 100 | 5 | 72 | 51 | **7.008.004** |
| 250 | 10 | 95 | 71 | **7.008.006** |
| 500 | 10 | 119 | 87 | **7.008.057** |
| 1000 | 20 | 147 | 109 | **7.008.010** |
| 2000 | 50 | 183.5 | 132 | **7.008.011** |
| 3000 | 500 | 201 | 158 | **7.008.012** |
| 5000 | 500 | 299 | 188.5 | **7.008.013** |



7.009.***

**Griffin beakers,** with spout, transparent, with blue graduation, made of Polypropylene (PP)

***Bécher*** *en polypropylène (PP) transparent, graduations bleues, à bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 1 | 35 | 25 | **7.009.001** |
| 25 | 1 | 49 | 34 | **7.009.002** |
| 50 | 2 | 60 | 41 | **7.009.003** |
| 100 | 5 | 72 | 51 | **7.009.004** |
| 250 | 10 | 95 | 71 | **7.009.006** |
| 500 | 10 | 119 | 87 | **7.009.008** |
| 1000 | 20 | 147 | 109 | **7.009.011** |
| 2000 | 50 | 183.5 | 132 | **7.009.012** |
| 3000 | 500 | 201 | 158 | **7.009.013** |
| 5000 | 500 | 229 | 188.5 | **7.009.057** |



7.010.***

**Griffin beakers,** with spout, crystal clear, with blue graduation, made of Polymethylpentene (PMP)

***Bécher*** *en TPX (ou Polyméthylpentène PMP), graduations bleues, à bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 1 | 49 | 34 | **7.010.002** |
| 50 | 2 | 60 | 41 | **7.010.003** |
| 100 | 5 | 72 | 51 | **7.010.004** |
| 250 | 10 | 95 | 71 | **7.010.006** |
| 400 | 10 | 109 | 77 | **7.010.007** |
| 500 | 10 | 119 | 87 | **7.010.057** |
| 1000 | 20 | 147 | 109 | **7.010.010** |
| 2000 | 50 | 184 | 133 | **7.010.011** |
| 3000 | 500 | 201 | 159 | **7.010.012** |
| 5000 | 500 | 228 | 190 | **7.010.013** |



7.010.1**

**Griffin beakers,** with spout, crystal clear, raised, made of Polymethylpentene (PMP)

***Bécher*** *en TPX (ou Polyméthylpentène PMP), gradué, à bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 1 | 49 | 34 | **7.010.102** |
| 50 | 2 | 60 | 42 | **7.010.103** |
| 100 | 5 | 72 | 52 | **7.010.104** |
| 250 | 10 | 95 | 71 | **7.010.106** |
| 500 | 10 | 119 | 88 | **7.010.157** |
| 1000 | 20 | 146 | 110 | **7.010.110** |
| 2000 | 50 | 184 | 133 | **7.010.111** |
| 3000 | 500 | 200 | 159 | **7.010.112** |
| 5000 | 500 | 228 | 190 | **7.010.113** |

**Automatic burettes, class DIN-B, short line graduation, clear plastic burette (PMMA),** new model, with push button enabling a precise titration, complete with polyethylene reservoir, included a stable base, automatic zero point. **Delivery time 30-60 sec., without waiting time**

***Burette à zéro automatique, classe B, en PMMA,*** *nouvelle version avec bouton permettant une titration précise, complète avec flacon en polyéthylène sur embase en plastique. Temps de distribiution 30-60 sec. sans attente*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.1 | 0.04 | **7.010.125** |
| 50 | 0.1 | 0.08 | **7.010.150** |



**7.001.125**

**Spare burette tube, made of PMMA class DIN-B, for automatic burettes**

***Tube gradué de rechange*** *pour burettes automatiques Classe B, en PMMA*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.1 | 0.04 | **7.010.425** |
| 50 | 0.1 | 0.08 | **7.010.450** |



**7.010.2****

**Burettes, clear plastic burette tubing (PMMA),** with PTFE connector, silicone tubing and PE-tip, with Mohr clip, class B, short line graduation

***Burette droite graduée Classe B, en PMMA*** *clair transparent, avec raccord en PTFE, tube en silicone, embout en polyéthylène et pince de Mohr*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.1 | 0.04 | **7.010.225** |
| 50 | 0.1 | 0.08 | **7.010.250** |



**7.010.3****

**Burettes, with straight detachable PTFE-stopcock,** clear plastic burette tubing (PMMA), class B, short line graduation

***Burette droite graduée classe B,*** *en PMMA clair transparent, à robinet en téflon (PTFE) interchangeable*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Tolerance<br>*Tolérance*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 0.1 | 0.04 | **7.010.325** |
| 50 | 0.1 | 0.08 | **7.010.350** |

**Griffin beakers,** with spout, transparent, made of ETFE

***Bécher*** *en téflon translucide (ETFE), graduations bleues, à bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 5 | 50 | 32 | **7.011.025** |
| 50 | 10 | 59 | 39 | **7.011.001** |
| 100 | 20 | 72 | 50 | **7.011.002** |
| 250 | 50 | 96 | 67 | **7.011.003** |
| 600 | 100 | 125 | 91 | **7.011.004** |



**7.011.*****

**Measuring beakers,** with handle and spout, transparent, raised graduated, made of Polypropylene (PP)

***Bécher gradué*** *à bec verseur avec anse, en polypropylène transparent (PP)*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 2 | 70 | 40 | **7.017.050** |
| 100 | 2 | 80 | 50 | **7.017.100** |
| 250 | 5 | 120 | 70 | **7.017.001** |
| 500 | 10 | 133 | 91 | **7.017.002** |
| 1000 | 10 | 170 | 116 | **7.017.003** |
| 2000 | 20 | 215 | 150 | **7.017.004** |
| 3000 | 50 | 242 | 170 | **7.017.005** |
| 5000 | 100 | 270 | 210 | **7.017.006** |



**7.017.*****



7.017.2**

**Measuring beakers,** with handle and spout, transparent, raised graduated, cylindrical, made of Polypropylene (PP)

***Vase de mesure gradué*** *en polypropylène (PP) transparent avec anse et bec verseur, forme cylindrique*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 500 | 25 | 116 | 90 | **7.017.202** |
| 1000 | 50 | 131 | 116 | **7.017.203** |
| 2000 | 50 | 165 | 145 | **7.017.204** |
| 3000 | 100 | 180 | 165 | **7.017.205** |
| 5000 | 250 | 225 | 190 | **7.017.206** |



7.018.***

**Measuring beakers,** with handle and spout, transparent, blue graduated, made of Polypropylene (PP)

***Vase de mesure*** *à graduations bleues en polypropylène (PP) transparent avec anse et bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 2 | 70 | 40 | **7.018.050** |
| 100 | 2 | 80 | 50 | **7.018.100** |
| 250 | 5 | 120 | 70 | **7.018.001** |
| 500 | 10 | 133 | 91 | **7.018.002** |
| 1000 | 10 | 170 | 116 | **7.018.003** |
| 2000 | 20 | 215 | 150 | **7.018.004** |
| 3000 | 50 | 242 | 170 | **7.018.005** |
| 5000 | 100 | 270 | 210 | **7.018.006** |



7.019.***

**Measuring beakers,** with handle and spout, crystal clear, graduated, made of Styrene-Acrylenitrile copolymer (SAN)

***Vase de mesure*** *à graduations claires en copolymère d'acrylonitrile-styrène (SAN) transparent avec anse et bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 250 | 5 | 120 | 70 | **7.019.001** |
| 500 | 10 | 133 | 91 | **7.019.002** |
| 1000 | 10 | 170 | 116 | **7.019.003** |
| 2000 | 20 | 215 | 150 | **7.019.004** |
| 3000 | 50 | 242 | 170 | **7.019.005** |



7.021.***

**Volumetric flask,** narrow neck, with ingmark, ST-stopper, made of Polypropylene (PP)

***Fiole jaugée*** *en polypropylène (PP), col étroit à un trait et bouchon à rodage normalisé*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | ST-stopper | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 121 | 12/21 | **7.021.001** |
| 50 | 143 | 14/23 | **7.021.002** |
| 100 | 174 | 14/232 | **7.021.003** |
| 250 | 225 | 19/26 | **7.021.004** |
| 500 | 265 | 19/26 | **7.021.005** |
| 1000 | 325 | 19/26 | **7.021.006** |



7.022.***

**Volumetric flask,** narrow neck, with ringmark, ST-stopper, made of Polymethylpentene (PMP)

***Fiole jaugée*** *en TPX (ou Polyméthylpentène PMP), col étroit à un trait et bouchon à rodage normalisé*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | ST-stopper | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 143 | 14/23 | **7.022.001** |
| 100 | 174 | 14/23 | **7.022.002** |
| 250 | 225 | 19/26 | **7.022.003** |
| 500 | 265 | 19/26 | **7.022.004** |
| 1000 | 325 | 19/26 | **7.022.005** |

**Erlenmeyer flasks,** wide neck, transparent, with ST-stopper, made of Polypropylene (PP)

***Fiole Erlenmeyer graduée,*** *en polypropylène (PP) transparent, avec bouchon à rodage normalisé*

| Capacity<br>*Capacité*<br>ml | ST-stopper | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 14/23 | 7.024.001 |
| 125 | 14/23 | 7.024.002 |
| 250 | 19/26 | 7.024.003 |
| 500 | 24/29 | 7.024.004 |
| 1000 | 29/32 | 7.024.005 |
| 2000 | 34/35 | 7.024.006 |



7.024.***

**Erlenmeyer flasks,** wide neck, transparent, with screw cap, made of Polypropylene (PP)

***Fiole Erlenmeyer graduée,*** *en polypropylène (PP) transparent, col large fileté avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | GL | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 40 | 7.025.001 |
| 100 | 40 | 7.025.002 |
| 250 | 52 | 7.025.003 |
| 500 | 52 | 7.025.004 |
| 1000 | 52 | 7.025.005 |



7.025.***

**Filter flask,** erlenmeyer shape, with side tube, transparent, made of polypropylene (PP)

***Fiole de filtration sous vide,***
*en polypropylène (PP) transparent avec olive*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 500 | 7.026.002 |
| 1000 | 7.026.003 |



7.026.***

**Measures,** class B, graduated, conical shape, with round base, with spout, without handle, made of Polypropylene (PP)

***Vase à saturation gradué,*** *classe B, en polypropylène (PP) transparent, forme conique avec base circulaire et bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 2 | 118 | 7.027.001 |
| 250 | 5 | 164 | 7.027.002 |
| 500 | 10 | 183 | 7.027.003 |
| 1000 | 20 | 263 | 7.027.004 |



7.027.***

**Measures,** class B, graduated, conical shape, with round base, with spout, without handle, made of Polymethylpentene (PMP)

***Vase à saturation gradué,*** *classe B, en TPX (ou Polyméthylpentène PMP) forme conique avec base circulaire et bec verseur*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 2 | 117 | 7.028.001 |
| 250 | 5 | 162 | 7.028.002 |
| 500 | 10 | 183 | 7.028.003 |
| 1000 | 20 | 263 | 7.028.004 |



7.028.***

**Scoops,** white, made of Polypropylene (PP)

***Pelles,*** *en polypropylène (PP), pour poudres et granulés*

| Capacity<br>*Capacité*<br>ml | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 2 | 60 | 7.037.001 |
| 5 | 82 | 7.037.002 |
| 10 | 100 | 7.037.003 |
| 25 | 135 | 7.037.004 |
| 50 | 160 | 7.037.005 |
| 100 | 200 | 7.037.006 |
| 250 | 260 | 7.037.007 |
| 500 | 315 | 7.037.008 |
| 1000 | 385 | 7.037.009 |



7.037.***



7.038.***

**Measuring scoops,** made of Polyethylene (PE)

***Pelles,*** *en polyéthylène (PE) pour poudres et granulés*

| Capacity<br>*Capacité*<br>ml | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 15 | 115 | **7.038.001** |
| 25 | 135 | **7.038.002** |
| 65 | 185 | **7.038.003** |
| 110 | 215 | **7.038.004** |
| 150 | 250 | **7.038.005** |
| 350 | 310 | **7.038.006** |
| 500 | 350 | **7.038.007** |
| 1000 | 400 | **7.038.008** |

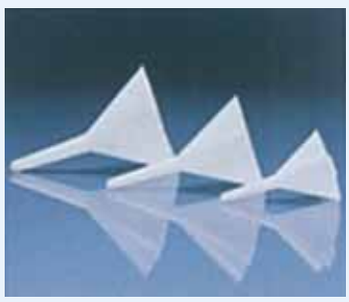


7.040.***

**Flask holder, universal,** white, made of Polyethylene (PE)

***Valet universel*** *en polyéthylène (PE), pour ballon à fond rond*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 160 | **7.040.001** |



7.041.***

**Funnels,** natural, made of Polypropylene (PP)

***Entonnoir*** *en polypropylène (PP)*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Stem Ø<br>*Tige Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 | 47 | 2 | **7.041.001** |
| 30 | 47 | 5 | **7.041.002** |
| 40 | 65 | 5 | **7.041.003** |
| 50 | 85 | 9 | **7.041.004** |
| 75 | 110 | 10 | **7.041.005** |
| 100 | 155 | 13 | **7.041.006** |
| 120 | 180 | 14 | **7.041.007** |
| 150 | 220 | 17 | **7.041.008** |

**Analytical funnels,** angle 60 °, made of Polypropylene (PP)

***Entonnoir d'analyse à 60°*** *en polypropylène (PP)*

| Outer Ø<br>*Ø ext.*<br>mm | Stem Ø<br>*Tige Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 27 | 4 | **7.041.101** |
| 45 | 5 | **7.041.103** |
| 65 | 10 | **7.041.104** |
| 80 | 11 | **7.041.105** |
| 100 | 11 | **7.041.106** |
| 120 | 11 | **7.041.107** |
| 150 | 14 | **7.041.108** |
| 180 | 14 | **7.041.109** |
| 37 | 5 | **7.041.112** |



7.041.1**



7.0421.***

**Powder funnels,** natural, made of Polypropylene (PP)

***Entonnoir pour poudre,*** *à tige courte, en polypropylène (PP)*

| Outer Ø<br>*Ø ext.*<br>mm | Stem Ø<br>*Tige Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 65 | 15 | **7.042.001** |
| 80 | 15 | **7.042.002** |
| 100 | 25 | **7.042.003** |
| 120 | 30 | **7.042.004** |
| 150 | 36 | **7.042.005** |
| 180 | 43 | **7.042.006** |



7.043.***

**Barrel funnels,** natural, made of Polypropylene (PP)

***Entonnoir de transversement pour baril,*** *en polypropylène (PP)*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Stem Ø<br>*Tige Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 200 | 200 | 22 | **7.043.001** |
| 250 | 260 | 30 | **7.043.002** |
| 350 | 440 | 35 | **7.043.003** |
| 400 | 365 | 42 | **7.043.004** |
| 450 | 420 | 37 | **7.043.005** |

**Sieves inset,** brass, interchangeable, suitable for funnel 7.043.001 - 7.043.003

***Tamis en laiton,*** *interchangeable, pour utilisation dans les entonnoirs 7.043.001 à 003*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 50 | 7.044.001 |



7.044.*** For funnels with Order No. 7.043.***

**Universal funnels,** with overflow rim, robust strong performance, made of High-Density Polyethylene (HD-PE)

***Entonnoir universel,*** *avec bordure anti-débordement, en polyéthylène (PE)*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 80 | 7.044.080 |
| 100 | 7.044.100 |
| 120 | 7.044.120 |
| 140 | 7.044.140 |
| 180 | 7.044.180 |
| 220 | 7.044.220 |
| 260 | 7.044.260 |
| 310 | 7.044.310 |
| 420 | 7.044.420 |



7.044.***

**special ST funnels,** for multiple neck - flask and apparatus, made of Polypropylene (PP)

***Entonnoir à rodage,*** *en polypropylène (PP) pour utilisation sur ballon à multi-cols ou sur autres instruments*

| Height<br>*Hauteur*<br>mm | Stem ST<br>*Rodage deTige* | Order No.<br>*N° de code* |
|---|---|---|
| 80 | 14.5 | 7.045.001 |
| 100 | 19 | 7.045.002 |
| 140 | 29 | 7.045.003 |



7.045.***



7.046.***

**Rapid funnels,** natural, made of Polypropylene (PP)

***Entonnoir à filtration rapide*** *en polypropylène (PP)*

| Outer Ø<br>*Ø ext.*<br>mm | Stem length<br>*Longueur de tige*<br>mm | Stem Ø<br>*Tige Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 60 | 150 | 8 | 7.046.001 |
| 80 | 150 | 8 | 7.046.002 |
| 100 | 150 | 8 | 7.046.003 |

**Buechner funnels,** made of Polyethylene (PE)

***Entonnoir de Büchner*** *en polyéthylène (PE)*

| Filter Ø<br>*Ø ext.*<br>mm | Max height<br>*Hauteur totale*<br>mm | Holes Ø<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 45 | 95 | 1.0 | 7.048.001 |
| 55 | 113 | 1.0 | 7.048.002 |
| 70 | 145 | 1.5 | 7.048.003 |
| 80 | 165 | 1.5 | 7.048.004 |
| 90 | 180 | 1.5 | 7.048.005 |
| 110 | 210 | 2.0 | 7.048.006 |
| 160 | 280 | 3.0 | 7.048.007 |
| 240 | 350 | 3.0 | 7.048.008 |



7.048.***



7.050.003

**Separatory funnel,** crystal clear, graduated, made of Polymethylpentene (PMP)

***Ampoule à décanter, en TPX*** *(ou Polyméthylpentène PMP)*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 500 | 5 | 7.050.003 |

**Funnel holder,** for funnels of 50 - 120 mm Ø, can be fixed to stands of 8 - 14 mmØ, made of Polypropylene (PP)

***Support pour entonnoirs de diamètre 50-120 mm,*** *en polypropylène (PP). Pour fixation sur tige de 8-14 mm dia.*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Single / *à une place* | 7.051.001 |
| Double / *à deux places* | 7.051.002 |



7.051.***



7.052.1**

**Filtering stand with variable height adjustment,** made of white Polypropylene (PP) with tapered openings to accomodate 2 or 4 funnels with diameters from 40 to 160 mm

***Support de filtration à hauteur réglable,*** *en polypropylène (PP) pour 2 ou 4 entonnoirs, avec orifices à bagues d'adaptation pour diamètres de 40 à 160 mm*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| For 2 funnels / *Pour 2 entonnoirs* Dimensions: 30 x 14 x 48 cm | 7.051.101 |
| For 4 funnels / *Pour 4 entonnoirs* Dimensions: 55 x 15 x 50 cm | 7.051.102 |



7.052.001

**Separatory funnel holder** for separatory funnels of 125 - 500 mm Ø, can be fixed to stands of 8 - 14 mmØ, made of Polypropylene (PP)

***Support pour ampoule à décanter de 125-500 mm de diamètre,*** *en polypropylène (PP). Pour fixation sur tige de 8-14 mm dia.*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Single / *à une place* | 7.052.001 |



7.052.056

**Sedimentation cone stand,** for two cones, Dimenson: 150 x 300 x 294 mm, made of Polymethylmethacrylate (PMMA)

***Support pour 2 cônes de sédimentation,*** *en TPX (ou Polyméthylpentène PMP). Dimensions: 150 x 300 x 294 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | 7.052.056 |



7.053.002

**Burette holder,** can be fixed to stands of 8 - 14 mmØ, made of polypropylene (PP)

***Pince à burettes,*** *en polypropylène (PP), pour fixation sur tige de 8-14 mm dia.*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Single / *à une place* | 7.053.001 |
| Double / *à deux places* | 7.053.002 |



7.055.***

**Motar,** white, without pestle, made of Melamin (MF), to be used with a pestle of the series 7.058.***

***Mortier à bec verseur sans pilon,*** *en mélamine (MF), à utiliser avec un pilon de la série 7.058.****

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 300 | 125 | 75 | 7.055.001 |
| 500 | 150 | 90 | 7.055.002 |



7.057.***

**Stirring vessel,** white, with handle and spout, made of Melamin (MF)

***Bol de malaxage,*** *en mélamine (MF), à bec verseur et poignées*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3000 | 220 | 140 | 7.057.001 |



7.058.***

**Pestles,** solid type, made of Melamin (MF)

***Pilon,*** *en mélamine (MF)*

| Length<br>*Longueur*<br>mm | Head Ø<br>*Tête*<br>mm | Weight<br>*Poids*<br>g | Order No.<br>*N° de code* |
|---|---|---|---|
| 125 | 30 | 55 | 7.058.001 |
| 145 | 35 | 85 | 7.058.002 |
| 160 | 40 | 120 | 7.058.003 |
| 215 | 42 | 175 | 7.058.004 |

**Bottles, specimen,** with tightly closing lid, transparent, made of polyethylene (PE)

***Flacon à échantillon,*** *avec coiffe à fermeture étanche, en polyéthylène (PE)*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 20 | 25 | **7.063.001** |
| 8 | 20 | 37 | **7.063.002** |
| 12 | 22 | 37 | **7.063.003** |
| 18 | 22 | 57 | **7.063.004** |
| 28 | 30 | 52 | **7.063.005** |
| 35 | 30 | 67 | **7.063.006** |
| 50 | 30 | 97 | **7.063.007** |
| 160 | 50 | 110 | **7.063.008** |



**7.063.0****

**Sample vials,** general purpose containers with push on hinged lids. Flat bottomed. Lightweight and unbreakable. Can be uses as weighing containers, made of polyethylene (PE)

***Tube à échantillon,*** *avec coiffe à enfoncer, fond plat, en polyéthylène (PE). Peut être aussi utilisé pour les pesées*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 8 | 32 | **7.063.101** |
| 2.5 | 14 | 31.5 | **7.063.102** |
| 5 | 15 | 49 | **7.063.103** |
| 7 | 23 | 33 | **7.063.104** |
| 8 | 17 | 58 | **7.063.105** |
| 20 | 25 | 74.5 | **7.063.106** |
| 25 | 31 | 52.5 | **7.063.107** |
| 35 | 31 | 74.5 | **7.063.108** |



**7.063.1****

**Specimen container,** with lid, made of HD-PE

***Flacon à échantillon,*** *avec couvercle, en polyéthylène (PE)*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 61 | **7.063.118** |



**7.063.118**

**Weighing bottles,** reduce the tare weight correction with these light weight, autoclavable, re-usable translucent bottles. Airtight push on lids included. Highly resistant to acid attack. No internal shoulders to allow use of spatulas. Tops cans be sqeezed to assist pouring. Remove lid before autoclaving, made of polypropylene (PP)

***Vase à tarer,*** *en polypropylène (PP), autoclavable, avec couvercle à fermeture étanche*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Tare<br>*Tarage*<br>g | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 23 | 30 | 48 | 8 | **7.064.001** |
| 20 | 40 | 29 | 8 | **7.064.002** |
| 60 | 40 | 69 | 14 | **7.064.003** |
| 30 | 49 | 29 | 10 | **7.064.004** |
| 50 | 59 | 34 | 18 | **7.064.005** |
| 190 | 59 | 88 | 28 | **7.064.006** |
| 360 | 70 | 118 | 40 | **7.064.007** |



**7.064.*****



**7.065.*****

**Screw cap containers,** ideal for storing mercury etc., leakproof. Small quantities of liquid or solid samples can be taken out by pipette/spatulas without the hindrance of internal shoulders. Sturdy, heavy walled with excellent chemical resistance, made of Polyethylene (PE)

***Récipients à bouchon à vis,*** *en polyéthylène (PE), pour les prélèvements de petites quantités d'échantillons liquides ou solides*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Weight<br>*Poids*<br>g | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 5 | 21 | 17.6 | 35.7 | 11 | **7.065.001** |
| 10 | 21 | 17.6 | 58.4 | 13 | **7.065.002** |
| 30 | 35 | 31 | 53 | 22 | **7.065.003** |
| 60 | 35 | 31 | 94.2 | 29 | **7.065.004** |
| 90 | 54.5 | 50 | 63.4 | 44 | **7.065.005** |
| 180 | 54.5 | 50 | 109.6 | 61 | **7.065.006** |

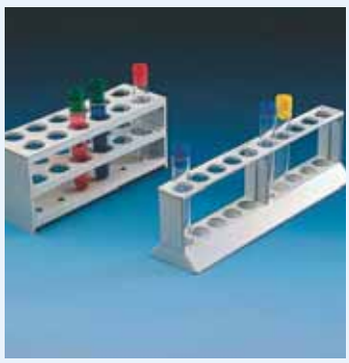


**7.067.*****

**Test tube racks,** made of Polypropylene (PP)

***Portoir pour tubes à essais,*** *en polypropylène (PP)*

| Holes<br>*Orifices* | Outer Ø<br>*Ø ext.*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 16 | 200 x 55 | **7.067.001** |
| 9 | 18 | 200 x 55 | **7.067.002** |



**7.068.*****

**Test tube racks,** made of Polypropylene (PP)

***Portoir pour tubes à essais,*** *en polypropylène (PP)*

| Holes<br>*Orifices* | Outer Ø<br>*Ø ext.*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 18 | 250 x 60 x 74 | **7.068.001** |
| 24 | 20 | 375 x 65 x 95 | **7.069.001** |
| 12 | 20 | 190 x 60 x 80 | **7.069.002** |



**7.073.102**

**Micro-tubes racks,** made of polypropylene (PP) autoclavable up to 121 °C, for micro-tubes 1.5/2.0 ml

***Portoir pour micro-tubes,*** *en polypropylène (PP), autoclavable, pour micro-tubes de 1.5/2.0 ml*

| Holes<br>*Orifices* | Outer Ø<br>*Ø ext.*<br>mm | Dimensions<br>*Dimensions*<br>mm | Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | micro | 262 x 108 x 45 | | **7.073.102** |
| 100 | micro | 262 x 108 x 45 | | **7.073.102 BL** |
| 100 | micro | 262 x 108 x 45 | | **7.073.102 G** |
| 100 | micro | 262 x 108 x 45 | | **7.073.102 R** |



**7.073.1****

**Test tube racks,** detachable, autoclavable up to 121 °C, made of Polypropylene (PP)

***Portoir pour tubes à essais****, en polypropylène (PP) autoclavable jusqu'à 121°C, démontable*

| Holes<br>*Orifices* | Outer Ø<br>*Ø ext.*<br>mm | Dimensions<br>*Dimensions*<br>mm | Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 90 | 13 | 247 x 104 x 60 | | **7.073.103** |
| 90 | 13 | 247 x 104 x 60 | | **7.073.103 BL** |
| 90 | 13 | 247 x 104 x 60 | | **7.073.103 G** |
| 90 | 13 | 247 x 104 x 60 | | **7.073.103 R** |
| 60 | 16 | 247 x 104 x 70 | | **7.073.104** |
| 60 | 16 | 247 x 104 x 70 | | **7.073.104 BL** |
| 60 | 16 | 247 x 104 x 70 | | **7.073.104 G** |
| 60 | 16 | 247 x 104 x 70 | | **7.073.104 R** |
| 40 | 20 | 247 x 104 x 70 | | **7.073.105** |
| 40 | 20 | 247 x 104 x 70 | | **7.073.105 BL** |
| 40 | 20 | 247 x 104 x 70 | | **7.073.105 G** |
| 40 | 20 | 247 x 104 x 70 | | **7.073.105 R** |
| 40 | 25 | 297 x 124 x 85 | | **7.073.106** |
| 40 | 25 | 297 x 124 x 85 | | **7.073.106 BL** |
| 40 | 25 | 297 x 124 x 85 | | **7.073.106 G** |
| 40 | 25 | 297 x 124 x 85 | | **7.073.106 R** |
| 24 | 30 | 301 x 111 x 85 | | **7.073.107** |
| 24 | 30 | 301 x 111 x 85 | | **7.073.107 BL** |
| 24 | 30 | 301 x 111 x 85 | | **7.073.107 G** |
| 24 | 30 | 301 x 111 x 85 | | **7.073.107 R** |

**Test tube racks,** with compartments on top and at 30 mm height, made of stainless steel wire

***Portoirs pour tubes à essais,*** *en fil d'acier inoxydable*

| Holes<br>*Orifices* | Opening<br>*Ouverture*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 48 | 12 x 12 | 173 x 68 x 70 | **7.073.201** |
| 24 | 14 x 14 | 197 x 44 x 70 | **7.073.202** |
| 48 | 14 x 14 | 197 x 76 x 70 | **7.073.203** |
| 24 | 16 x 16 | 223 x 50 x 70 | **7.073.204** |
| 48 | 16 x 16 | 223 x 86 x 70 | **7.073.205** |
| 12 | 18 x 18 | 130 x 50 x 70 | **7.073.206** |
| 24 | 18 x 18 | 250 x 50 x 70 | **7.073.207** |
| 48 | 18 x 18 | 250 x 90 x 70 | **7.073.208** |
| 100 | 18 x 18 | 250 x 250 x 70 | **7.073.209** |
| 24 | 20 x 20 | 269 x 56 x 70 | **7.073.210** |
| 48 | 20 x 20 | 269 x 100 x 70 | **7.073.211** |
| 24 | 22 x 22 | 295 x 60 x 70 | **7.073.212** |
| 48 | 22 x 22 | 295 x 108 x 70 | **7.073.213** |
| 12 | 28 x 28 | 180 x 60 x 70 | **7.073.214** |
| 24 | 28 x 28 | 360 x 60 x 70 | **7.073.215** |
| 48 | 28 x 28 | 360 x 120 x 70 | **7.073.216** |



**7.073.2****

**Test tube racks,** with compartments on top and at 30 mm height, made of stainless steel wire, Polyethylene (PE) coated, white

***Portoir pour tubes à essais,*** *en acier inoxydable avec revêtement en polyéthylène blanc*

| Holes<br>*Orifices* | Opening<br>*Ouverture*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 48 | 12 x 12 | 173 x 68 x 70 | **7.073.201 P** |
| 24 | 14 x 14 | 197 x 44 x 70 | **7.073.202 P** |
| 48 | 14 x 14 | 197 x 76 x 70 | **7.073.203 P** |
| 24 | 16 x 16 | 223 x 50 x 70 | **7.073.204 P** |
| 48 | 16 x 16 | 223 x 86 x 70 | **7.073.205 P** |
| 12 | 18 x 18 | 130 x 50 x 70 | **7.073.206 P** |
| 24 | 18 x 18 | 250 x 50 x 70 | **7.073.207 P** |
| 48 | 18 x 18 | 250 x 90 x 70 | **7.073.208 P** |
| 100 | 18 x 18 | 250 x 250 x 70 | **7.073.209 P** |
| 24 | 20 x 20 | 269 x 56 x 70 | **7.073.210 P** |
| 48 | 20 x 20 | 269 x 100 x 70 | **7.073.211 P** |
| 24 | 22 x 22 | 295 x 60 x 70 | **7.073.212 P** |
| 48 | 22 x 22 | 295 x 108 x 70 | **7.073.213 P** |
| 12 | 28 x 28 | 180 x 60 x 70 | **7.073.214 P** |
| 24 | 28 x 28 | 360 x 60 x 70 | **7.073.215 P** |
| 48 | 28 x 28 | 360 x 120 x 70 | **7.073.216 P** |



**7.073.2** P**

**Test tube stands,** for tubes, vials etc. made of Styrofoam

***Portoirs en styropore,*** *pour tubes, vials etc...*

| Holes<br>*Orifices* | Outer Ø<br>*Ø ext.*<br>mm | depth of holes<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 250 | 8.5 | 15 | 218 x 218 x 33 | **7.074.401** |
| 119 | 14.5 | 18 | 218 x 218 x 33 | **7.074.402** |
| 96 | 16.5 | 22 | 218 x 218 x 33 | **7.074.403** |



**7.074.*****

**Drying rack,** 72 interchangeable rods, with groove and draining tube, made of Polystyrol (PS)

***Egouttoir mural,*** *en polystyrène, avec gouttière et 72 tiges pour séchage de la verrerie*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 450 x 630 | **7.077.200** |



**7.026.*****

**Wall draining rack,** PE-coated steel rack on a PVC-backplate and thorough

***Egouttoir mural,*** *en acier avec revêtement en plastique (PE), avec gouttière et tiges pour séchage de la verrerie*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 450 x 630 | **7.077.300** |



**7.026.*****

**Draining Racks**
made of Polyvinylchloride (PVC), largely chemically resistant, breakproof, the stable rods are individually placed in the holes and are clicked in. In combination with rods of three different lengths (60 mm, 100 mm and 150 mm), the draining rack can be adapted to any apparatus which is to be dried (The rods can be repositioned at any time). The draining channel is removable. It has a connection for a draining tube (the drip water is fed into the laboratory sink)

***Egouttoir mural en PVC,*** *à tiges d'égouttage encliquées amovibles et incassables, avec ou sans gouttière d'écoulement à raccordement pour tube de drainage*



**7.077.4****

| Dimensions<br>*Dimensions*<br>mm | Rods 60 mm<br>*Tiges de 60 mm*<br>pcs. | Rods 100 mm<br>*Tiges de 100 mm*<br>pcs. | Rods 150 mm<br>*Tiges de 150 mm*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 400 x 400 | 5 | 26 | 2 | **7.077.400** |
| 500 x 500 | 10 | 39 | 4 | **7.077.401** |
| 600 x 600 | 15 | 56 | 6 | **7.077.402** |

**Spare parts /** *Pièces de rechgange*

| | |
|---|---|
| Rod, 60 mm length<br>*Tige de 60 mm* | **7.077.450** |
| Rod, 100 mm length<br>*Tige de 100 mm* | **7.077.451** |
| Rod, 150 mm length<br>*Tige de 150 mm* | **7.077.452** |
| Draining channel, 400 mm length<br>*Gouttière, longueur 400 mm* | **7.077.460** |
| Draining channel, 500 mm length<br>*Gouttière, longueur 500 mm* | **7.077.461** |
| Draining channel, 600 mm length<br>*Gouttière, longueur 600 mm* | **7.077.462** |



**7.081.*****

**Pipette stand,** hold a maximum of 94 pipettes, made of Polypropylene (PP)

***Portoir pour pipettes,*** *universel, en polypropylène (PP), admet jusqu'à 94 pipettes*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.081.001** |



**7.082.*****

**Desiccators with stopcock,** lower part and plate with any small holes are made of Polypropylene (PP), Polycarbonate lid. The desiccator is vacuum-adjusted. With inset of chloride of lime, serves as holding device for the perforated porcelain plate, so that even hot crucibles can be inserted.

***Dessicateur à vide,*** *en polypropylène (PP) avec couvercle à robinet en polycarbonate (PC)*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 150 | 190 | **7.082.001** |
| 200 | 230 | **7.082.002** |
| 250 | 300 | **7.082.003** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Stopcock for desiccator<br>*Robinet à vide* | **7.083.001** |
| O-Ring for Order No. 7.082.001, made of neoprene-rubber<br>*Joint en néoprène pour 7.082.001* | **7.084.001** |
| O-Ring for Order No. 7.082.002, made of neoprene-rubber<br>*Joint en néoprène pour 7.082.002* | **7.084.002** |
| O-Ring for Order No. 7.082.003, made of neoprene-rubber<br>*Joint en néoprène pour 7.082.003* | **7.084.003** |
| Desiccator plate outer Ø 141 mm for Order No. 7.082.001, made of (PP)<br>*Disque en PP, de 141 mm dia. pour 7.082.001* | **7.085.001** |
| Desiccator plate outer Ø 190 mm for Order No. 7.082.002, made of (PP)<br>*Disque en PP, de 190 mm dia. pour 7.082.002* | **7.085.002** |
| Desiccator plate outer Ø 239 mm for Order No. 7.082.003, made of (PP)<br>*Disque en PP, de 239 mm dia. pour 7.082.003* | **7.085.003** |



**7.083.*** / 7.084.*****



**7.085.*****

**Sprayer,** adjustable from finest spraying (atomizing) to radiate spraying by easy turning. Range approx. 3 - 4 meters. Particulary suitable for disinfectants, even on places which are hard to reach, made of Polyethylene (PE)

***Vaporisateur en polyéthylène (PE),*** *réglable et utilisé pour les désinfectants ou autres produits.*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 500 | 7.087.002 |
| 1000 | 7.087.004 |



7.087.***

**Washing bottles,** new shape, simply spraying method. Bottle with intergrated spraying inset and standard screw cap GL 32, made of Polyethylene (PE)

***Pissette en polyéthylène (PE) souple,*** *avec bouchon à vis GL 32, nouvelle forme*

| Capacity<br>*Capacité*<br>ml | Heigth<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 143 | 7.088.001 |
| 500 | 181 | 7.088.002 |



7.088.***

**Instrument trays,** flat design, white, made of Melamin (MF)

***Plateau à instruments,*** *en mélamine (MF)*

| Dimensions<br>*Dimensions*<br>mm | Heigth<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 190 x 150 | 17 | 7.089.001 |
| 240 x 180 | 17 | 7.089.002 |
| 268 x 268 | 17 | 7.089.003 |
| 355 x 240 | 17 | 7.089.004 |
| 428 x 288 | 17 | 7.089.005 |



7.089.***

**Instrument trays,** high, white, made of Melamin (MF)

***Cuvette,*** *en mélamine (MF)*

| Dimensions<br>*Dimensions*<br>mm | Heigth<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 290 x 160 | 60 | 7.090.002 |
| 190 x 150 | 40 | 7.091.001 |
| 290 x 160 | 35 | 7.091.002 |
| 350 x 240 | 40 | 7.091.003 |
| 350 x 250 | 100 | 7.091.004 |



7.090.0** / 7.091.0**

**Cover for trays,** crystal clear, with handle, made of Polystyrol (PS)

***Couvercle pour plateau,*** *avec anse, en polystyrène (PS)*

| Dimensions<br>*Dimensions*<br>mm | Suitable for Order No.<br>*Pour N° de code* | Order No.<br>*N° de code* |
|---|---|---|
| 190 x 150 | 7.091.001 | 7.092.001 |
| 290 x 160 | 7.090.002 + 7.091.002 | 7.092.002 |
| 350 x 250 | 7.091.004 | 7.092.003 |

**Trays,** white, for universal use in aboratories, hospital and for developping procedure, made of Polyvinylchloride (PVC)

***Cuvette en PVC,*** *à usage universel pour les laboratoires, les hopitaux et les procédures de développement*

| Dimensions<br>*Dimensions*<br>mm | Heigth<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 250 x 150 | 50 | 7.094.001 |
| 250 x 200 | 60 | 7.094.002 |
| 320 x 260 | 70 | 7.094.003 |
| 300 x 350 | 85 | 7.094.004 |
| 430 x 330 | 95 | 7.094.005 |
| 520 x 420 | 95 | 7.094.006 |
| 675 x 540 | 100 | 7.094.007 |
| 550 x 430 | 190 | 7.094.008 |



7.094.***



**7.096.*****

**Trays,** transparent, with rim, made of Polypropylene (PP)

***Cuvette en polypropylène (PP)*** *transparent, avec bordure*

| Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 510 x 345 | 110 | **7.096.001** |



**7.099.*****

**Storage tray,** for drawers, alongside subdivided in 9 shelves 25 mm wide, made of Polyvinylchloride (PVC)

***Bac de stockage en PVC,*** *pour tiroir, à 9 espaces de 25 mm*

| Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 355 x 300 | 45 | **7.099.001** |

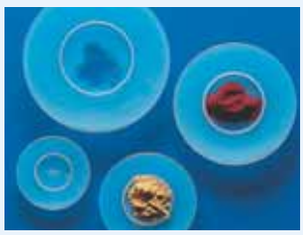


**7.101.*****

**Tray,** with 5 different shelves
Made of Polyvinylchloride (PVC)

***Plateau en PVC,*** *à 5 casiers différents*

| Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 404 x 364 | 64 | **7.101.001** |



**7.103.*****

**Watch glasses,** very stable having a moulded base. Temperature stable up to 120 °C, made of Polypropylene (PP)

***Verre de montre,*** *en polypropylène (PP), résistant jusqu'à 120°C*

| Outer Ø<br>*Ø ext.*<br>mm | Weight<br>*Poids*<br>g | Order No.<br>*N° de code* |
|---|---|---|
| 60 | 3.7 | **7.103.001** |
| 79 | 5.5 | **7.103.002** |
| 99 | 10 | **7.103.003** |
| 118.5 | 15 | **7.103.004** |



**7.113.*****

**Bottles for urine tests,** graduated, with handle and small screw cap for taking tests, made of Polyethylene (PE)

***Flacon gradué pour collecte d'urine,*** *en polyéthylène (PE), avec bouchon à vis étanche et poignée de transport*

| Capacity<br>*Capacité*<br>ml | Bottle Ø<br>*Flacon Ø*<br>mm | Inner Ø neck<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2500 | 135 | 80 | 270 | **7.113.001** |



**7.114.*****

**Urinals for men,** graduated, autoclavable up to 121 °C

***Urinoir pour homme,*** *gradué en Polypropylène (PP) autoclavable jusqu'à 121°C*

| Capacity<br>*Capacité*<br>ml | Color<br>*Couleur* | Material | Order No.<br>*N° de code* |
|---|---|---|---|
| 1000 | transparent | PP | **7.114.001** |
| 1000 | clear / *claire* | PC | **7.114.002** |

**Accessories /** *Accessoires*

Lid for urinal, tighly closing, made of polyethylene (PE) **7.115.001**
*Couvercle pour urinoir, fermeture étanche, en polyéthylène (PE)*



**7.117.*****

**Urine vessel,** graduated, with lid, crystal clear, made of Styrene-Acrylonitrile copolymer (SAN)

***Urinoir gradué,*** *en copolymère d'acrylonitrile-styrène (SAN), avec couvercle de fermeture*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2000 | 20 | 220 | 150 | **7.117.001** |

**Urine beakers,** graduated, volume 100 ml, with or without leakproof self-adhesive film cover, crystal clear, made of Polystyrene (PS)

***Béchers à urine gradué,*** *en polystyrène (PS), capacité 100 ml, avec ou sans couvercle en film adhésif*

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| Urine beakers with cover<br>*Béchers à urine avec couvercle* | 1000<br>(20 bags x 50) | **7.117.100** |
| Urine beakers without cover<br>*Béchers à urine sans couvercle* | 1000<br>(20 bags x 50) | **7.117.101** |
| Self-adhesive film cover<br>*Couvercles en film adhésif* | 500<br>(1 bag x 500) | **7.117.110** |
| **Accessories** / *Accessoires* | | |
| Dispenser for 50 urine beakers, made of plastic<br>*Distributeur pour 50 béchers à urine en plastique* | 1 | **7.117.250** |



**7.117.1****



**7.117.250**

**Urine beakers,** graduated, volume 125 ml, with or without leakproof snap-on lid, non-sterile, made of Polypropylene (PP)

***Béchers à urine,*** *en polypropylène (PP), gradués, volume 125 ml, avec ou sans couvercle étanche à emboiter, non-stérile*

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| Urine beakers with cover<br>*Béchers à urine avec couvercle* | 500 | **7.117.300** |
| Urine beakers without cover<br>*Béchers à urine sans couvercle* | 1000 | **7.117.301** |
| Snap-on lid<br>*Couvercles à emboiter* | 1000 | **7.117.310** |



**7.117.3****

**Urine beakers,** graduated, volume 125 ml, with screw cap, sterile or non-sterile, made of Polypropylene (PP)

***Béchers à urine,*** *en polypropylène (PP), gradués, volume 125 ml, avec couvercle à visser étanche, stériles ou non-stérile*

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| Urine beakers, non-sterile<br>*Béchers à urine, non-stérile* | 500 | **7.117.400** |
| Urine beakers, sterile<br>*Béchers à urine, stérile, emballage individuel* | 400 | **7.117.401** |



**7.117.4****

**Urine collecting bottles,** blue translucent, graduated, wide neck of dia. 80 mm, volumes available 2 or 2,5 litres with closure-cap and with white inscriptions or self-adhesive labels, made of Polyethylene (PE)

***Flacons de collecte d'urine,*** *en polyéthylène (PE) bleue, gradués, col large de 80 mm dia., avec couvercle de fermeture étanche, livrables en 2 ou 2,5 litres avec inscriptions blanches ou avec étiquette adhésive*

| **Type**<br>***Type*** | **Packing**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| 2 litres with white inscriptions<br>*2 litres avec inscriptions blanches* | 72 | **7.117.500** |
| 2.5 litres with self-adhesive labels<br>*2.5 litres avec étiquette adhésive* | 60 | **7.117.501** |
| **Accessories** / *Accessoires* | | |
| Lids for urine collecting bottles 2 and 2.5 litres<br>*Couvercles pour flacons à urine de 2 et 2.5 litres* | 100 | **7.117.510** |
| Self-adhesive labels for bottles of 2.5 litres<br>*Etiquettes adhesives pour flacons à urine de 2.5 litre* | 100 | **7.117.511** |



**7.117.5****



7.119.***



7.124.***

**Irrigator-vessel,** graduated, with flat back, suitable for fixing on the wall, made of Polypropylene (PP)

***Vase d'irrigation gradué*** *en polypropylène (PP), pour montage mural*

| Capacity<br>*Capacité*<br>ml | Division<br>*Division*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 1000 | 50 | **7.119.001** |
| 2000 | 50 | **7.119.002** |

**Staining and storage system,** complete with staining rack for 25 slides of 76 x 26 mm, made of Polyoxymethylene (POM)

***Système de coloration et de stockage de lames minces,*** *pour 25 lames de 76 x 26 mm, en polyoxyméthylène (POM)*

| Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 x 87 | 51 | **7.124.001** |



7.125.***



7.126.***

**Staining dish, also storage box,** for 25 slides of 76 x 26 mm, made of Polyoxymethylene (POM)

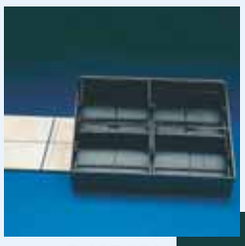
***Cuvette de coloration,*** *pour 25 lames minces de 76 x 26 mm, en polyoxyméthylène (POM)*

| Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 x 87 | 51 | **7.125.001** |

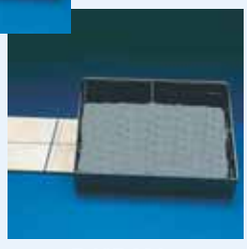
**Staining rack,** permits simultaneous staining up to 25 slides of 76 x 26 mm, made of Polyoxymethylene (POM)

***Portoir à coloration,*** *pour 25 lames de 76 x 26 mm, en polyoxyméthylène (POM)*

| Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 91 x 79 | 38 | **7.126.001** |



7.127.001



7.127.001

**Storage box,** with 4 inserts for 100 slides of 76 x 26 mm, made of Polystyrene (PS)

***Boite de rangement,*** *à 4 séparations, pour 100 lames minces de 76 x 26 mm, en polystyrène (PS)*

| Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 192 x 169 | 39 | **7.127.001** |

**Storage box,** without inserts made of Polystyrene (PS)

***Boite de rangement,*** *sans séparations, en polystyrène (PS)*

| Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 192 x 169 | 39 | **7.127.002** |



7.127.003



7.127.004

**Staining jar „Hellendahl",** made of clear Polymethylpentene (PMP) with cover, for 8 slides 76 x 26 mm (or 16 slides back-to-back)

***Boite à coloration Hellendahl,*** *en polyméthylpentène (PMP) transparente avec couvercle, pour 8 lames 76 x 26 mm (ou 16 lames dos à dos)*

| Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 58 x 53.5 | 86 | **7.127.003** |

**Staining jar,** with 2 covers, crystal glass, made of Polymethylpentene (PMP)

***Bac à coloration*** *en polyméthylpentène (PMP) transparente avec 2 couvercles, pour lames minces 76 x 26 mm*

| Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 101 x 81 | 86 | **7.127.004** |

**Staining jar,** complete with rack for 20 slides, made of Polymethylpentene (PMP) and Polypropylene (PP)

***Bac à coloration*** *en polyméthylpentène (PMP) transparente avec portoir en polypropylène (PP) pour 20 lames minces 76 x 26 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | 7.127.005 |



7.127.005

**Staining rack,** for 20 slides, made of Polypropylene (PP)

***Portoir*** *en polypropylène (PP) pour 20 lames minces 76 x 26 mm*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 695 x 86 x 21 | 7.127.006 |



7.127.006

**Embedding frames,** disposable, with clip closure, made of Polyoxymethylene (POM), 500 pcs. per carton

***Cassettes d'inclusion*** *avec couvercle perforés en polyoxyméthylène (POM), pour immersion des tissus dans les solvants. Emballage de 500 pcs.*

| Dimensions<br>*Dimensions*<br>mm | Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|
| 40 x 28 x 7 | | 7.127.100 |
| 40 x 28 x 7 | | 7.127.101 |
| 40 x 28 x 7 | | 7.127.102 |
| 40 x 28 x 7 | | 7.127.103 |
| 40 x 28 x 7 | | 7.127.104 |

**Accessories /** *Accessoires*

| | |
|---|---|
| Embedding sponge, 30 x 25 mm, blue, 500 pcs. per carton<br>*Eponges d'inclusion bleues, 30 x 25mm, emballage de 500 pcs.* | 7.127.105 |



7.127.1**

**Staining jars, „Scheifferdecker“,** for 20 slides, crystal glass, made of Polymethylpentene (PMP)

***Bac à coloration de Scheifferdecker,*** *en polyméthylpentène (PMP) transparente, pour 20 lames minces 76 x 26 mm*

| Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 85 x 70 | 50 | 7.127.110 |



7.127.110

**Paraffin metal frame,** for precise arrangement of species in paraffin wax, 10 pcs. per plastic bag

***Moule à paraffine en métal,*** *en sachet de 10 pcs.*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Standard | 7.127.200 |
| Biopsie | 7.127.201 |



7.127.2**

**Slide dispenser**
for 100 slides 76 x 26 mm, made of Acrylobutadiene-styrene copolymer (ABS)

***Distributeur de lames minces,*** *pour 100 lames 76 x 26mm, en ABS*

| Type<br>*Type* | Dimensions<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| Dispenser<br>*Distributeur* | 360 x 38 | 100 | 7.129.001 |
| Lids, crystal clear, made of PP<br>*Couvercle, en polypropylène (PP) clair* | 345 x 35 | 40 | 7.130.001 |



7.129.***

**Storage cabinet,** for slides with 5 drawers. Each drawer has a capacity for 10 micro slide dispenser Order No. 7.129.001, total capacity 5000 micro slides, made of Acrylobutadiene-styrene copolymer (ABS)

***Armoire de rangement pour lames minces,*** *en ABS avec ou sans roulettes, équipée de 5 tiroirs chacun pour 10 distributeurs No. 7.129.001. Capacité totale 5000 lames 76 x 26 mm*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 420 x 420 x 725 | 7.130.200 |

**Accessories /** *Accessoires*

| | |
|---|---|
| Set of 4 rolls / *Jeu de 4 roulettes de déplacement* | 7.130.204 |



7.130.***



7.131.***

**Storage boxes,** with lid, for slides 76 x 26 mm, handy pileable breakage-free, simple cleansing, with index card for the preparation, classification, numbered, made of Polystyrene (PS)

***Boite pour lames minces,*** *en polystyrène (PS) avec feuillet d'identification numéroté, pour 25, 50 ou 100 lames*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| for 25 slides / *pour 25 lames* | 92 x 83 | 38 | **7.131.001** |
| for 50 slides / *pour 50 lames* | 230 x 97 | 35 | **7.131.002** |
| for 100 slides / *pour 100 lames* | 230 x 180 | 35 | **7.131.003** |

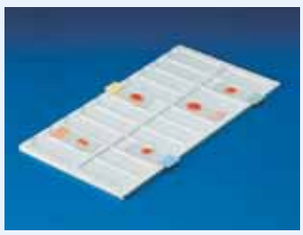


7.132.***

**Dispatch container,** for slides 76 x 26 mm, particularly suitable for dispatch by letter mail, made of polyethylene (PE)

***Pochette d'envoi*** *pour lames minces 76 x 26 mm, en polyéthylène (PE)*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| for 1 slide / *pour 1 lame* | 50.6 x 98.8 x 6.4 | **7.132.001** |
| for 2 slides / *pour 2 lames* | 84 x 70 x 6 | **7.132.002** |
| for 3 slides / *pour 3 lames* | 97 x 84 x 6 | **7.132.003** |



7.132.2**

**Tray for microscopic slides,** for slides 76 x 26 mm, made of Polyvinylchloride (PVC)

***Plateau*** *pour lamelles microscopiques 76 x 26 mm, en PVC*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| for 20 slides / *pour 20 lames* | 340 x 190 x 8 | **7.132.230** |
| for 40 slides / *pour 40 lames* | 660 x 190 x 8 | **7.132.240** |



7.133.0**

**Dispatch- and storage box for slides,** when the case is open, the slides project 20 mm above the case and can be easily taken out, solid workmanship, made of Polypropylene (PP)

***Boitier circulaire de transport et de stockage pour lames minces,*** *avec bouchon à vis, en polypropylène*

| Type<br>*Type* | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| for 5 - 10 slides / *pour 5 à 10 lames* | 40 | 90 | **7.133.001** |



7.133.2**

**Sample mailer,** with screw cap, made of High-Density Polyethylene (HD-PE)

***Récipient d'envoi et de stockage d'échantillons,*** *en polyéthylène (PE) avec bouchon à vis*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 34 | 85 | | **7.133.101** |
| 34 | 120 | | **7.133.102** |
| 34 | 85 | | **7.133.201** |
| 34 | 120 | | **7.133.202** |



7.133.3**

**Spotting tiles,** with 3 round cavities each 21 mm dia., made of Polyethylene (PE)

***Plaque à coloration,*** *en polyéthylène (PE) à 3 cavités de dia. 21 mm chacune*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 28 x 85 | **7.133.200** |

**Spotting tiles,** with 8 round cavities each 15 mm dia., made of Polystyrene (PS)

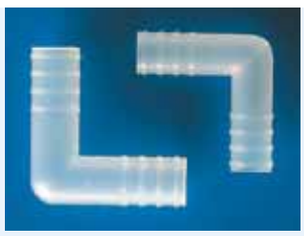
***Plaque à coloration,*** *en polyéthylène (PE) à 8 cavités de dia. 15 mm chacune*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 95 x 57 | **7.133.300** |

**Connecting tubes, L-shape**
made of Polypropylene (PP)

***Raccords en „L“***
*en polypropylène*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4 | 3.2 - 4.0 | 1.3 | **7.134.001** |
| 6 | 4.7 - 5.7 | 2.5 | **7.134.002** |
| 8 | 6.9 - 7.8 | 4.5 | **7.134.003** |
| 10 | 8.7 - 9.9 | 6.0 | **7.134.004** |
| 12 | 10.7 - 11.8 | 8.0 | **7.134.005** |
| 14 | 12.6 - 13.7 | 10.5 | **7.134.006** |
| 16 | 14.6 - 15.6 | 11.6 | **7.134.007** |



**7.134.*****

**Universal connecting tubes,** transparent, made of Polypropylene (PP)

***Raccord de jonction universel,***
*en polypropylène (PP), transparent*

| Tubing inner Ø<br>*Tuyau Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 5 - 15 | **7.135.001** |



**7.135.*****

**Connecting tubes, straight**
made of Polypropylene (PP)

***Raccord de jonction droit,***
*en polypropylène (PP)*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4/5/6 | 3/4.5/5.5 | 2.0 | **7.136.001** |
| 6/7/8 | 4.5/7/8.2 | 3.5 | **7.136.002** |
| 8/9/10 | 6.3/9/11 | 4.5 | **7.136.003** |
| 10/11/12 | 8.3/10.5/13 | 6.5 | **7.136.004** |
| 12/13/14 | 10/13/15 | 8.5 | **7.136.005** |
| 14/15/16 | 12.14.5/17 | 10.5 | **7.136.006** |



**7.136.*****

**Connecting tubes,** for connection of tubing with different diameters, made of Polypropylene (PP)

***Raccords pour tubes de diamètres différents,*** *en polypropylène*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4/5/8/10/12 | 3.7/8.2/7.0/11.8 | 1.6/4.6 | **7.137.001** |
| 4/6/8/12/14/16 | 3.7/7.8/11.5/16.0 | 1.6/7.5 | **7.137.002** |
| 8/10/12/14/16 | 7.1/12.0/11.3/15.9 | 4.6/7.5 | **7.137.003** |



**7.137.*****

**Disconnectors – tapered,** these quick disconnectors are useful for joining tubing of glass, rubber or plastic. Connectors fit tightly together. Replace expensive adapters, made of Polyethylene (PE)

***Jonctions en 2 parties.*** *en Polyéthylène, peuvent être couplées différemment (deux à deux) pour permettre la connexion de tubes ayant des diamètres différents*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4/5/6 | 3.5/6.0 | 1.6 | **7.138.001** |
| 6/7/8 | 5.3/7.6 | 2.7 | **7.138.002** |
| 8/9/10 | 7.2/9.7 | 3.6 | **7.138.003** |
| 10/11/12 | 9.3/12.2 | 5.5 | **7.138.004** |
| 12/13/14 | 11.0/14.4 | 7.3 | **7.138.005** |
| 14/15/16 | 13.2/16.0 | 8.8 | **7.138.006** |

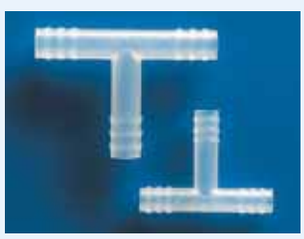


**7.138.*****

**Connecting tubes, T-shape**
made of Polypropylene (PP)

***Raccords en „T“***
*en polypropylène*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4 | 3.3/3.6 | 1.6 | **7.139.001** |
| 6 | 4.5/5.4 | 2.8 | **7.139.002** |
| 8 | 6.9/7.6 | 4.4 | **7.139.003** |
| 10 | 8.7/9.5 | 6.3 | **7.139.004** |
| 12 | 10.7/11.5 | 8.2 | **7.139.005** |
| 14 | 12.7/13.7 | 10.0 | **7.139.006** |
| 16 | 14.7/15.6 | 12.1 | **7.139.007** |



**7.139.*****



**7.140.*****

**Connecting tubes, Y-shape**
made of Polypropylene (PP)

***Raccords en „Y“***
*en polypropylène (PP)*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4 | 3.2/4.0 | 2.0 | **7.140.001** |
| 6 | 4.7/5.7 | 2.7 | **7.140.002** |
| 8 | 6.6/7.6 | 4.6 | **7.140.003** |
| 10 | 8.9/9.9 | 5.5 | **7.140.004** |
| 12 | 10.5/11.6 | 7.3 | **7.140.005** |
| 14 | 12.8/13.7 | 9.7 | **7.140.006** |
| 16 | 14.7/15.6 | 11.9 | **7.140.007** |



**7.141.*****

**Connecting tubes, 120 ° Y-shape**
made of Polypropylene (PP)

***Raccords en Y à 3 voies,*** *angles de 120°, en polypropylène (PP)*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4/5/6 | 3.8/4.7 | 1.5 | **7.141.001** |
| 6/7/8 | 5.2/7.0 | 2.7 | **7.141.002** |
| 8/9/10 | 6.9/8.8 | 4.7 | **7.141.003** |
| 10/11/12 | 9.8/10.7 | 5.5 | **7.141.004** |
| 12/13/14 | 11.1/13.2 | 7.6 | **7.141.005** |
| 14/15/16 | 13.0/14.9 | 9.6 | **7.141.006** |



**7.142.*****

**4 way connectors**
made of Polypropylene (PP)

***Raccords en croix à 4 voies,*** *en polypropylène (PP)*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Valley/Crest outer Ø<br>*Val/Crête Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3.5 | 3.0/3.4 | 1.5 | **7.142.001** |
| 6 | 4.8/5.6 | 2.7 | **7.142.002** |
| 8 | 6.9/7.4 | 4.6 | **7.142.003** |
| 10 | 8.7/9.5 | 7.0 | **7.142.004** |
| 12 | 10.4/11.5 | 8.0 | **7.142.005** |
| 13.5 | 12.3/13.5 | 9.5 | **7.142.006** |
| 15 | 14.3/15.4 | 11.6 | **7.142.007** |



**7.143.*****

**Stopcocks,** ideal for liquids, and gases under low pressure (operating pressure 0,5 bar) or low vacuum. High-Density Polyethylene (HD-PE) body interfaces with Polypropylene (PP) tap giving a smooth turning actions requirung no lubricants, all are straight bored

***Robinets d´interception***
*en PP et HDPE, robinets idéales pour liquides et gaz à basse pression (0.5 bar) ou vide léger. Raccord de jonction droit, en polypropylène (PP) permettent une rotaion sensible sans besoin de lubrifiant. Tous les robinets ont une voie de passage rectiligne*

| Nominal outer Ø<br>*Nominal Ø ext.*<br>mm | Bore<br>*Voie*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 8 | 4.9 | **7.143.001** |
| 10 | 7.0 | **7.143.002** |
| 13 | 10.9 | **7.143.003** |
| 15 | 12.7 | **7.143.004** |



**7.144.*****

**Safety valves,** prevents the return stroke in case of drop in pressure in vacuum tubings made of Polypropylene (PP)

***Vanne de sécurité***
*en polypropylène (PP), contre le retour de pression dans les tuyaux à vide*

| Tubing inner Ø<br>*Tuyau Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 8 - 10 | **7.144.001** |
| 12 - 15 | **7.144.002** |



**7.144.1****

**Drying tubes – tapered**
Ideal for drying gases, the two ends have push-on tapered connections to take rubber tubing of 8,9,10 mm diameters, made of polyethylene (PE)

***Tubes pour chlorures de calcium***
*en Polyéthylène, pour séchage des gaz, pourvus de deux bouchons avec raccords pour tuyau de dia. 8-9-10 mm*

| Connect. nominal outer Ø<br>*Connect. nom Ø ext.*<br>mm | Ø x Tube length<br>*Ø x Longueur*<br>mm | Overall length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 8 - 10 | 20 x 100 | 170 | **7.144.100** |
| 8 - 10 | 20 x 150 | 220 | **7.144.101** |
| 8 - 10 | 20 x 200 | 270 | **7.144.102** |

**Flow indicator, ball**
For liquid flow from 50ml/min. in horizontal position, and 140 ml/min. in vertical position. Minimum air flow 3 litres/min. horizontal and 8 litres/min. vertical. Speed of rotation of ball proportional to flow. Not to be used with corrosive fluids or over + 50 °C, made of Styrene-Acrylonitrile copolymer (SAN)

***Indicateur de débit à bille*** *, en copolymère d' acrylonitrile-styrène (SAN) transparent, indique flux de liquide de 50 ml/min. en position horizontale et 140 ml/min en position verticale. Flux minimum d´air 3 l/min. en position horizontale et 8 l/min. en position verticale. La vitesse de rotation de la bille est proportionelle au flux; A ne pas utiliser avec des fluides corrosifs ou à température supérieure à + 50 °C*

| Connection outer Ø<br>*Connection Ø ext.*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6.5 - 10 | 102 x 14 x 57 | **7.145.001** |



**7.145.001**

**Flow indicator, paddle wheel**
For liquid flows down to 5 ml/sec. Wheel spins freely and speed of rotation is proportional to flow rate. Maximum recommended flow rate up ti 95 ml/sec. Max 2 par pressure, not to be used with corosive fluids or over + 85 °C. Can be used with gases, made of Styrene-Acrylonitrile copolymer (SAN)

***Indicateur de débit à hélice,*** *en copolymère d' acrylonitrile-styrène (SAN) transparent, indique flux de liquide jusqu´à 5 ml/sec. L´hélice tourne librement et la vitesse de rotation est proportionelle au débit. Le débit max. conseillé est de 95 ml/sec., 2 bar pression max. A ne pas utiliser avec des fluides corrosifs ou à température +85°C. Peut être utilisé avec gaz*

| Connection outer Ø<br>*Connection Ø ext.*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6 - 11 | 90 x 15 x 40 | **7.145.002** |



**7.145.002**

**Parafilm „M“,** an elastic, moisture resistant film for general use in laboratories, flexible, water-tight, semitransparent, practically non-odorous and tasteless, resistant to alcohol, acids, alkalines of moderade concentration, well suited to seal laboratory containers, roll in dispenser.

***Film thermoplastique Parafilm "M",*** *translucide, sert à boucher et envelopper des fournitures diverses dans les travaux de cultures et dans la conservation d'échantillons. Livré en rouleau dans boite distributrice*

| Length<br>*Longueur*<br>m | Width<br>*Largeur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 75 | 50 | **7.148.001** |
| 75 | 100 | **7.148.002** |
| 38 | 100 | **7.148.003** |



**7.148.***

**Parafilm dispenser,** for standard rolls and double rolls 10 cm wide, also for 5 cm wide rolls. With hinged lid and efficient cutter. Covered knife guide, optimal safety. Stable. Transparent version with additional holding rod roll guide

***Dévidoir avec massicot,*** *pour rouleau de Parafilm M de 50 ou 100 mm de large*

| Dimensions<br>*Dimension*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 120 x 160 x 170 | **7.148.100** |



**7.148.100**

**Parafilm „M“,** Rolls in mailing tube

***Rouleau de Parafilm M,*** *dans tube d'envoi*

| Length<br>*Longueur*<br>m | Width<br>*Largeur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 15 | 500 | **7.149.001** |

**Stirrer (Blades),**
made of Polypropylene (PP)

***Tiges d'agitation,*** *en polypropylène (PP)*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 2 Blades / *à 2 pâles* | 40 x 15 | **7.150.001** |
| U-shape / *en U* | 65 x 78 | **7.150.002** |
| 2 flexible blades / *à 2 ailettes* | 60 | **7.150.003** |
| 2 flexible blades / *à 2 ailettes* | 100 | **7.150.004** |



**7.150.***



7.151.***

**Stirring rod with spatula,** made of Polypropylene (PP)

***Baguette d'agitation spatulée,*** *en polyproplylène (PP)*

| Length<br>*Longueur*<br>m | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 245 | 7 | **7.151.001** |



7.152.***

**Stirring rods,** unbreakable, splinter-free, made of Polyvinylchloride (PVC)

***Baguette d'agitation,*** *à bôuts rebrûlés, en PVC*

| Length<br>*Longueur*<br>m | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 7 | **7.152.001** |
| 300 | 7 | **7.152.002** |
| 350 | 7 | **7.152.003** |



7.153.2**

**Laboratory spatulas,** made of Polyamide (PA)

***Spatule de laboratoire,*** *en polyamide (PA)*

| Performance | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Double | 150 | **7.153.201** |
| Double | 180 | **7.153.202** |
| With spoon / *avec cuillère* | 180 | **7.153.203** |
| With spoon / *avec cuillère* | 210 | **7.153.204** |



7.153.001

**Basin,** suitable for NIROSTA-sinks made of Polypropylene (PP)

***Cuve,*** *pour utilisation dans éviers, en polypropylène (PP)*

| Capacity<br>*Capacité*<br>l | Colour<br>*Couleur* | Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 14 | | 320 x 340 | 190 | **7.153.001** |



7.154.***

**Bowls,** white, round, made of Polypropylene (PP)

***Bassine ronde,*** *en polypropylène (PP) blanc*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>l | Order No.<br>*N° de code* |
|---|---|---|---|
| 160 | 70 | 1 | **7.154.001** |
| 200 | 80 | 2 | **7.154.002** |
| 240 | 100 | 3 | **7.154.003** |
| 280 | 120 | 4 | **7.154.004** |
| 320 | 130 | 5 | **7.154.005** |
| 360 | 150 | 7 | **7.154.006** |
| 400 | 180 | 13 | **7.154.007** |



7.158.***

**Transport- and storage container,** with grips and draining holes, can be piled-up made of Polypropylene (PP)

***Casier de transport et de stockage,*** *en polypropylène (PP) avec orifices d'écoulement et poignées*

| Capacity<br>*Capacité*<br>l | Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 16 | 540 x 350 | 115 | **7.158.001** |



7.159.***

**Transport- and storage container,** can be easily piled-up, resistant to temperatures up to 100 °C, made of High-Density Polyethylene (HD-PE)

***Bac de transport et de stockage,*** *en polyéthylène (PE), empilable et à haute résistance thermique jusqu'à 100°C*

| Capacity<br>*Capacité*<br>l | Dimensions<br>*Dimensions*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 20 | 415 x 315 | 200 | **7.159.001** |
| 46 | 595 x 365 | 250 | **7.159.002** |
| 72 | 695 x 438 | 300 | **7.159.003** |

**Bucket,** graduated, white, made of High-Density Polyethylene (HD-PE)

***Seau gradué,*** *en polyéthylène (PE) blanc*

| Capacity<br>*Capacité*<br>l | Order No.<br>*N° de code* |
|---|---|
| 5 | **7.162.001** |
| 10 | **7.162.002** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Lid, tightly closing, transparent, for Order No. 7.162.001<br>*Couvercle transparent pour seau de 5 L* | **7.163.001** |
| Lid, tightly closing, transparent, for Order No. 7.162.002<br>*Couvercle transparent pour seau de 10 L* | **7.163.002** |



**7.162.*****

**Bucket,** with spout, graduated, natural color, made of High-Density Polyethylene (HD-PE)

***Seau gradué,*** *en polyéthylène (PE) blanc, avec bec verseur*

| Capacity<br>*Capacité*<br>l | Order No.<br>*N° de code* |
|---|---|
| 12 | **7.164.001** |
| 15 | **7.164.002** |



**7.164.*****

**Bottles,** wide neck, round, transparent, with screw cap, made of Polyethylene (PE)

***Flacon cylindrique à col large fileté,*** *avec bouchon à visser, en polyéthylène (PE) transparent*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 32 | 77 | 40 | **7.166.001** |
| 100 | 32 | 92 | 48 | **7.166.002** |
| 250 | 40 | 123 | 64 | **7.166.003** |
| 500 | 50 | 153 | 75 | **7.166.004** |
| 1000 | 65 | 202 | 94 | **7.166.005** |
| 2000 | 65 | 243 | 120 | **7.166.006** |



**7.166.*****

**Bottles,** wide neck, round, transparent, without screw cap, made of Polyethylene (PE)

***Flacon cylindrique à col large fileté,*** *sans bouchon, en polyéthylène (PE) transparent*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 32 | 77 | 40 | **7.166.101** |
| 100 | 32 | 92 | 48 | **7.166.102** |
| 250 | 40 | 123 | 64 | **7.166.103** |
| 500 | 50 | 153 | 75 | **7.166.104** |
| 1000 | 65 | 202 | 94 | **7.166.105** |
| 2000 | 65 | 243 | 120 | **7.166.106** |



**7.166.1****
**shown with screw-cap**
*montré avec bouchon à vis*

**Screw-cap,** made of Polyethylene (PE), for use with wide neck bottles 7.166.1**

***Bouchon à visser,*** *en polyéthylène (PE), à utiliser avec les flacons à col large 7.166.1***

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| GL 32 for bottles of 50 and 100 ml / *GL 32 pour flacons de 50 et 100 ml* | **7.166.032** |
| GL 40 for bottles of 250 ml / *GL40 pour flacon de 250 ml* | **7.166.040** |
| GL 50 for bottles of 500 ml / *GL50 pour flacon de 500 ml* | **7.166.050** |
| GL 65 for bottles of 1000 and 2000 ml / *GL65 pour flacons de 1000 et 2000 ml* | **7.166.065** |



**7.166.032 - 065**

**Bottles,** narrow neck, square, transparent, with screw cap, made of Polyethylene (PE)

***Flacon carré à col étroit fileté,*** *avec bouchon à visser, en polyéthylène (PE) transparent*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 18 | 82 | 41 x 41 | **7.167.001** |
| 150 | 18 | 93 | 47 x 47 | **7.167.002** |
| 250 | 25 | 110 | 55 x 55 | **7.167.003** |
| 500 | 25 | 133 | 70 x 70 | **7.167.004** |
| 1000 | 32 | 166 | 87 x 87 | **7.167.005** |



**7.167.*****



7.168.***

**Bottles,** wide neck, square, transparent, with screw cap, made of Polyethylene (PE)

***Flacon carré à col large fileté,*** *avec bouchon à visser, en polyéthylène (PE) transparent*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 32 | 90 | 41 x 41 | **7.168.001** |
| 250 | 45 | 119 | 53 x 53 | **7.168.002** |
| 500 | 45 | 145 | 68 x 68 | **7.168.003** |
| 1000 | 63 | 177 | 87 x 87 | **7.168.004** |



7.169.***

**Washing bottles,** with screw cap and spraying inset, made of Polyethylene (PE)

***Pissette à col latéral et bouchon à visser,*** *en polyéthylène (PE) transparent*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 50 | **7.169.001** |
| 100 | **7.169.002** |
| 250 | **7.169.003** |
| 500 | **7.169.004** |
| 1000 | **7.169.005** |
| 2000 | **7.169.006** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Spraying inset GL 18 for Order No. 7.169.001 + 7.169.002<br>*Bouchon à col latéral GL 18 pour pissette de 50 et 100 ml* | **7.169.018** |
| Spraying inset GL 25 for Order No. 7.169.003 + 7.169.004<br>*Bouchon à col de cygne GL 25 pour pissette de 250 et 500 ml* | **7.169.025** |
| Spraying inset GL 28 for Order No. 7.169.005 + 7.169.006<br>*Bouchon à col de cygne GL 28 pour pissette de 1000 et 2000 ml* | **7.169.028** |



7.169.1***

**Safety washing bottles, with safety delivery jet, made of clear polyethylene (PE). Available in english (add E), german (add D) or french (add F) language (Please add the "letter" behind the order No.)**

***Pissette de sécurité sérigraphiée à col latéral,*** *en polyéthylène (PE) transparent. Disponible en langue anglaise (E), allemande (D) ou francaise (F). Veuillez svp rajouter la "lettre" derrière le N° de code*

| Impression | Capacity<br>*Capacité*<br>250 ml | Capacity<br>*Capacité*<br>500 ml | Capacity<br>*Capacité*<br>1000 ml |
|---|---|---|---|
| Distilled Water / *Eau distillée* | **7.169.101** | **7.169.109** | **7.169.117** |
| Acetone / *Acétone* | **7.169.102** | **7.169.110** | **7.169.118** |
| Methanol / *Méthanol* | **7.169.103** | **7.169.111** | **7.169.119** |
| Acetic Ether / *Ether acétique* | **7.169.105** | **7.169.113** | **7.169.121** |
| Dimethylformamide / *Diméthylformamide* | **7.169.106** | **7.169.114** | **7.169.122** |
| Iso-Propanol / *Isopropanol* | **7.169.107** | **7.169.115** | **7.169.123** |
| Ethanol / *Ethanol* | **7.169.108** | **7.169.116** | **7.169.124** |
| Aceticacidethylester / *Ethyl-éther acide acétique* | **7.169.125** | **7.169.138** | **7.169.151** |
| Methylenchloride / *Chlorure de méthylène* | **7.169.126** | **7.169.139** | **7.169.152** |
| Heptane / *Heptane* | **7.169.127** | **7.169.140** | **7.169.153** |
| Hexane / *Hexane* | **7.169.128** | **7.169.141** | **7.169.154** |
| Petrolether / *Ether de pétrole* | **7.169.129** | **7.169.142** | **7.169.155** |
| Benzine / *Benzène* | **7.169.130** | **7.169.143** | **7.169.156** |
| Xylol-(M-) meta / *Xylène-(m-) meta* | **7.169.132** | **7.169.145** | **7.169.158** |
| Xylol-(O-) ortho / *Xylène-(-o-) ortho* | **7.169.133** | **7.169.146** | **7.169.159** |
| Xylol-(P-) para / *Xylène-(-p-) para* | **7.169.134** | **7.169.147** | **7.169.160** |
| Acetonitril / *Acétonitrile* | **7.169.135** | **7.169.148** | **7.169.161** |
| Methylethylketon / *Méthyl-éthyl-cétone* | **7.169.136** | **7.169.149** | **7.169.162** |
| Acetic Acid / *Acide acétique* | **7.169.137** | **7.169.150** | **7.169.163** |



7.170.***

**Dropping bottles,** with screw cap, with dropper nozzle an attached cap, made of polyethylene (PE)

***Flacon compte-gouttes,*** *en polyéthylène (PE) transparent avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 10 | **7.170.001** |
| 20 | **7.170.011** |
| 30 | **7.170.002** |
| 50 | **7.170.003** |
| 100 | **7.170.004** |
| 250 | **7.170.005** |
| 500 | **7.170.006** |
| 1000 | **7.170.007** |

**Bottles,** narrow neck, with screw cap, made of Polyethylene (PE)

***Flacon cylindrique à col étroit,*** *en polyéthylène (PE) transparent avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Complete<br>*Complet* | Bottle<br>*Flacon* | Screw cap |
|---|---|---|---|---|
| 10 | 14 | **7.171.001** | **7.171.101** | **7.171.014** |
| 20 | 14 | **7.171.002** | **7.171.102** | **7.171.014** |
| 30 | 14 | **7.171.003** | **7.171.103** | **7.171.014** |
| 50 | 18 | **7.171.004** | **7.171.104** | **7.171.018** |
| 100 | 18 | **7.171.005** | **7.171.105** | **7.171.018** |
| 250 | 25 | **7.171.007** | **7.171.107** | **7.171.025** |
| 500 | 25 | **7.171.008** | **7.171.108** | **7.171.025** |
| 1000 | 28 | **7.171.009** | **7.171.109** | **7.171.028** |
| 2000 | 28 | **7.171.010** | **7.171.110** | **7.171.028** |
| 3000 | 32 | **7.171.011** | **7.171.111** | **7.171.032** |
| 5000 | 40 | **7.171.012** | **7.171.112** | **7.171.040** |



**7.171.*****

**Bottles,** narrow neck, with screw cap, made of Polypropylene (PP)

***Flacon cylindrique à col étroit,*** *en polypropylène (PP) transparent avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Complete<br>*Complet* | Bottle<br>*Flacon* | Screw cap |
|---|---|---|---|---|
| 10 | 14 | **7.171.301** | **7.171.401** | **7.171.514** |
| 20 | 14 | **7.171.302** | **7.171.402** | **7.171.514** |
| 30 | 14 | **7.171.303** | **7.171.403** | **7.171.514** |
| 50 | 18 | **7.171.304** | **7.171.404** | **7.171.518** |
| 100 | 18 | **7.171.305** | **7.171.405** | **7.171.518** |
| 250 | 25 | **7.171.307** | **7.171.407** | **7.171.525** |
| 500 | 25 | **7.171.308** | **7.171.408** | **7.171.525** |
| 1000 | 28 | **7.171.309** | **7.171.409** | **7.171.528** |
| 2000 | 28 | **7.171.310** | **7.171.410** | **7.171.528** |



**7.171.3****

**Bottles,** amber, narrow neck, with screw cap, made of Low-Density Polyethylene (LD-PE)

***Flacon cylindrique à col étroit,*** *en polyéthylène (PE) ambré avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Complete<br>*Complet* | Bottle<br>*Flacon* | Screw cap |
|---|---|---|---|---|
| 100 | 18 | **7.171.605** | **7.171.705** | **7.171.818** |
| 250 | 25 | **7.171.607** | **7.171.707** | **7.171.825** |
| 500 | 25 | **7.171.608** | **7.171.708** | **7.171.825** |
| 1000 | 28 | **7.171.609** | **7.171.709** | **7.171.828** |



**7.171.6*****

**Bottles,** narrow neck, with screw cap, made of Low-Density Polyethylene (LD-PE) with handle made of metal

***Flacon cylindrique à col étroit,*** *en polyéthylène (PE) ambré avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 3000 | 32 | 305 | 140 | **7.171.921** |
| 5000 | 40 | 360 | 163 | **7.171.922** |



**7.171.9****

**Bottles, conical shoulder,** narrow neck, transparent, with ST-stopper, made of Polypropylene (PP)

***Flacon cylindro-conique à col étroit,*** *en polyproylène (PP) transparent avec bouchon à rodage normalisé*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 14.5 | 100 | 52 | **7.172.001** |
| 250 | 19 | 128 | 70 | **7.172.002** |
| 500 | 24 | 162 | 86 | **7.172.003** |
| 1000 | 29 | 197 | 106 | **7.172.004** |
| 2000 | 29 | 255 | 131 | **7.172.005** |



**7.172.*****



**7.173.*****

**Bottles, conical shoulder,** wide neck, transparent, with ST-stopper, made of Polypropylene (PP)

***Flacon cylindro-conique à col large,*** *en polypropylène (PP) avec bouchon à rodage normalisé*

| Capacity<br>*Capacité*<br>ml | Socket<br>*Rodage femelle*<br>ST | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 29 | 96 | 52 | **7.173.001** |
| 250 | 34.5 | 132 | 72 | **7.173.002** |
| 500 | 45 | 162 | 86 | **7.173.003** |
| 1000 | 60 | 200 | 107 | **7.173.004** |
| 2000 | 60 | 263 | 131 | **7.173.005** |



**7.174.*****

**Bottles, conical shoulder,** narrow neck, transparent, with screw cap, made of Polypropylene (PP)

***Flacon cylindro-conique à col étroit fileté,*** *en polypropylène (PP) transparent avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 18 | 100 | 52 | **7.174.001** |
| 250 | 25 | 132 | 70 | **7.174.002** |
| 500 | 25 | 165 | 87 | **7.174.003** |
| 1000 | 32 | 202 | 108 | **7.174.004** |
| 2000 | 32 | 245 | 131 | **7.174.005** |



**7.174.2****

**Bottles, high shoulder,** narrow neck, with special developed closure for most proper tightening, high resistance against heat and chemicals, made of Perflouroalkoxy (PFA)

***Flacon à épaulement et à col étroit fileté,*** *en polyétrafluoréthylène (PFA) avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 28 | 86 | 37 | **7.174.200** |
| 100 | 28 | 120 | 45 | **7.174.201** |
| 250 | 28 | 160 | 61 | **7.174.202** |
| 500 | 28 | 190 | 76 | **7.174.203** |
| 1000 | 28 | 240 | 96 | **7.174.204** |



**7.175.*****

**Bottles, conical shoulder,** wide neck, transparent, with DIN-screw-cap, made of Polypropylene (PP)

***Flacon cylindro-conique à col large fileté,*** *en polypropylène (PP) transparent, avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 32 | 96 | 55 | **7.175.001** |
| 250 | 45 | 132 | 73 | **7.175.002** |
| 500 | 45 | 172 | 87 | **7.175.003** |
| 1000 | 63 | 204 | 108 | **7.175.004** |
| 2000 | 63 | 243 | 131 | **7.175.005** |



**7.175.1****

**Bottles, high shoulder,** wide neck, high resistance against heat and chemicals, made of Perflouroalkoxy (PFA)

***Flacon à épaulement et à col large fileté,*** *en polyétrafluoréthylène (PFA) avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br>*Filetage*<br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 250 | 40 | 150 | 61 | **7.175.101** |
| 500 | 40 | 179 | 76 | **7.175.102** |
| 1000 | 40 | 217 | 96 | **7.175.103** |
| 2000 | 40 | 245 | 130 | **7.175.104** |
| 5000 | 40 | 320 | 175 | **7.175.105** |

**Bottles,** wide neck, with screw cap, temperature resistant up to 120 °C, made of Polypropylene (PP)

***Flacon à col large fileté,*** *en polypropylène (PP) transparent autoclavable jusqu'à 120°C avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Complete<br>*Complet* | Bottle<br>*Flacon* | Screw cap |
|---|---|---|---|---|
| 50 | 32 | **7.175.111** | **7.175.201** | **7.175.332** |
| 100 | 32 | **7.175.112** | **7.175.202** | **7.175.332** |
| 250 | 40 | **7.175.113** | **7.175.203** | **7.175.340** |
| 500 | 50 | **7.175.114** | **7.175.204** | **7.175.350** |
| 1000 | 65 | **7.175.115** | **7.175.205** | **7.175.365** |
| 2000 | 65 | **7.175.116** | **7.175.206** | **7.175.365** |



**7.175.11***

**Bottles,** wide neck, amber, with screw cap, made of Low-Density Polyethylene (LD-PE)

***Flacon à col large fileté,*** *en polyéthylène (PE) ambré avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Complete<br>*Complet* | Bottle<br>*Flacon* | Screw cap |
|---|---|---|---|---|
| 50 | 32 | **7.175.401** | **7.175.501** | **7.175.632** |
| 100 | 32 | **7.175.402** | **7.175.502** | **7.175.632** |
| 250 | 40 | **7.175.403** | **7.175.503** | **7.175.640** |
| 500 | 50 | **7.175.404** | **7.175.504** | **7.175.650** |
| 1000 | 65 | **7.175.405** | **7.175.505** | **7.175.665** |



**7.175.4****

**Bottles,** wide neck, with screw cap, made of Low-Density Polyethylene (LD-PE)

***Flacon à col large fileté,*** *en polyéthylène (PE) transparent avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 3000 | 94 | 274 | 140 | **7.175.711** |
| 5000 | 94 | 317 | 165 | **7.175.712** |



**7.175.71***

**Bottles,** wide neck, with screw cap, made of Low-Density Polyethylene (LD-PE), with handle made of metal

***Flacon à col large fileté,*** *en polyéthylène (PE) transparent avec bouchon à visser et anse de ransport en métal*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 3000 | 94 | 274 | 140 | **7.175.721** |
| 5000 | 94 | 317 | 165 | **7.175.722** |



**7.175.72***

**Bottles,** wide neck, with tagging point, with red screw cap and seal, suitable particulary for dispatch by parcel post, made of High-Density Polyethylene (HD-PE)

***Flacon à col large fileté,*** *en polyéthylène (PE) transparent avec bouchon pour visser à joint étanche pour l'envoi et le transport sécurisé d'échantillons*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 250 | 32 | 115 | 64 | **7.175.801** |
| 500 | 45 | 144 | 78 | **7.175.802** |
| 1000 | 56 | 183 | 100 | **7.175.803** |
| 2000 | 56 | 226 | 120 | **7.175.804** |



**7.176.*****

**Bottles, conical shoulder,** narrow neck, transparent, with ST-stopper, with one handle, made of Polypropylene (PP)

***Flacon cylindro-conique à col étroit,*** *en polypropylène (PP) transparent avec bouchon à rodage normalisé*

| Capacity<br>*Capacité*<br>ml | ST-stopper<br>*Rodage*<br>ST | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5000 | 45 | 325 | 178 | **7.176.001** |

**Bottles, conical shoulder,** narrow neck, transparent, with screw cap, with handle made of Polypropylene (PP)

***Flacon cylindro-conique à col étroit,*** *en polypropylène (PP) transparent avec bouchon à visser et anse de transport*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Handles | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 5000 | 45 | 315 | 178 | 1 | **7.177.001** |
| 10000 | 60 | 394 | 222 | 2 | **7.177.002** |



**7.177.*****



**7.178.*****

**Carboys,** narrow neck, round, with screw cap, without stopcock, made of Polyethylene (PE)

***Baril cylindrique de stockage,** à col étroit avec bouchon à visser et anse de transport, en polyéthylène (PE), sans robinet de décharge*

| Capacity<br>*Capacité*<br>l | Neck<br>mm | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 46 | 335 | 163 | **7.178.000** |
| 10 | 55 | 414 | 210 | **7.178.001** |
| 25 | 55 | 525 | 279 | **7.178.002** |
| 50 | 55 | 603 | 366 | **7.178.003** |



**7.179.*****

**Carboys, with stopcock,** narrow neck, round, with screw cap, made of Polyethylene (PE)

***Baril cylindrique de stockage,** à col étroit avec bouchon à visser et anse de transport, en polyéthylène (PE), avec robinet de décharge*

| Capacity<br>*Capacité*<br>l | Neck<br>mm | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 46 | 335 | 163 | **7.179.000** |
| 10 | 55 | 414 | 210 | **7.179.001** |
| 25 | 55 | 525 | 279 | **7.179.002** |
| 50 | 55 | 603 | 366 | **7.179.003** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Stopcock 3/4“ thread, PE / *Robinet 3/4“, en polyéthylène (PE)* | **7.179.101** |



**7.179.8****

**Carboys,** wide neck, round, with screw cap, without stopcock, made of Polyethylene (PE)

***Récipient cylindrique,** à col large et bouchon à visser, en polyéthylène (PE), sans robinet de décharge*

| Capacity<br>*Capacité*<br>l | Neck<br>mm | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 90 | 315 | 163 | **7.179.805** |
| 10 | 120 | 390 | 210 | **7.179.810** |



**7.180.*****

**Carboys,** wide neck, round, with screw cap, without stopcock, made of Polyethylene (PE)

***Baril cylindrique de stockage,** à col large avec bouchon à visser et anse de transport, en polyéthylène (PE), sans robinet de décharge*

| Capacity<br>*Capacité*<br>l | Neck<br>mm | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 150 | 510 | 280 | **7.180.002** |
| 30 | 150 | 595 | 280 | **7.180.003** |
| 50 | 150 | 615 | 355 | **7.180.004** |



**7.181.*****

**Carboys,** wide neck, round, with screw cap, with stopcock, made of Polyethylene (PE)

***Baril cylindrique de stockage,** à col large avec bouchon à visser et anse de transport, en polyéthylène (PE), avec robinet de décharge*

| Capacity<br>*Capacité*<br>l | Neck<br>mm | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 150 | 510 | 280 | **7.181.002** |
| 30 | 150 | 595 | 280 | **7.181.003** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Stopcock / *Robinet* | **7.181.101** |



**7.182.*****

**Carboys,** wide neck, square shape, with screw cap, without stopcock, made of Polyethylene (PE)

***Baril carré de stockage,** à col large avec bouchon à visser et anse de transport, en polyéthylène (PE), sans robinet de décharge*

| Capacity<br>*Capacité*<br>l | Neck<br>mm | Height<br>*Hauteur*<br>mm | Dimensions<br>*Dimension*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 80 | 280 | 180 x 140 | **7.182.001** |
| 10 | 80 | 365 | 220 x 175 | **7.182.002** |
| 20 | 150 | 405 | 275 x 235 | **7.182.003** |
| 25 | 150 | 480 | 275 x 235 | **7.182.004** |

**Carboys with stopcock,** wide neck, square shape, with screw cap, made of Polyethylene (PE)

***Baril carré de stockage,*** *à col large avec bouchon à visser et anse de transport, en polyéthylène (PE), avec robinet de décharge*

| Capacity<br>*Capacité*<br>l | Neck<br><br>mm | Height<br>*Hauteur*<br>mm | Dimensions<br>*Dimension*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 80 | 280 | 180 x 140 | **7.183.001** |
| 10 | 80 | 365 | 220 x 175 | **7.183.002** |
| 20 | 150 | 405 | 275 x 235 | **7.183.003** |
| 25 | 150 | 480 | 275 x 235 | **7.183.004** |
| **Spare parts /** *Pièces de rechange* | | | | |
| Stopcock / *Robinet* | | | | **7.181.101** |



**7.183.*****

**Square bottles,** narrow neck, with screw cap, made of Polyethylene (PE)

***Flacon carré,*** *à col étroit avec bouchon à visser, en polyéthylène (PE)*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Height<br>*Hauteur*<br>mm | Dimensions<br><br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 250 | 25 | 159 | 43 x 51 | **7.185.001** |
| 500 | 25 | 180 | 53 x 68 | **7.185.002** |
| 1000 | 25 | 228 | 66 x 89 | **7.185.003** |



**7.185.*****

**Universal square bottle,** (hybridising bottle), wide neck, suitable for overhead shaker, complete with screw cap, made of High-Density Polyethylene (HD-PE)

***Flacon carré universel,*** *à col large avec bouchon à visser, en polyéthylène (PE), recommandé pour les agitateurs à rotation*

| Capacity<br>*Capacité*<br>ml | Screw thread<br><br>GL | Height<br>*Hauteur*<br>mm | Dimensions<br><br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 2000 | 77 | 240 | 111 x 109 | **7.186.002** |



**7.186.*****

**Water jet pump**
This pump will work on pressures up to 10 kg/cm2. Built-in non return valve to eliminate back flow. Usefull for sucking to waste any split chemicals as well as for flter work. Easily to detachable. Autoclavable, made of Polypropylene (PP)

***Trompe à vide,*** *en polypropylène (PP) autoclavable et résistante aux pressions jusqu'à 10 kg/cm², avec vanne anti-retour intégrée*

| | Order No.<br>*N° de code* |
|---|---|
| Complete/*Complet* | **7.187.001** |
| **Spare parts /** *Pièces de rechange* | |
| Tube connector (5 pcs.), PP /<br>*Tubes de jonction (jeu de 5) en PP* | **7.187.005** |



**7.187.*****

**Canister,** with screw cap, stackable made of Polyethylene (PE)

***Jerrican*** *en polyéthylène (PE), avec bouchon à visser, empilable*

| Capacity<br>*Capacité*<br>l | Neck<br>*Col*<br>mm | Height<br>*Hauteur*<br>mm | Dimensions<br>*Dimension*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 33 | 250 | 195 x 145 | **7.189.001** |
| 10 | 33 | 310 | 230 x 190 | **7.189.002** |
| 20 | 49 | 380 | 290 x 250 | **7.189.003** |
| 30 | 49 | 415 | 360 x 280 | **7.189.003** |



**7.189.*****

**Canister,** with pouring spout, thick walled, with screw cap, made of Polyethylene (PE)

***Jerrican*** *avec bec verseur et bouchon à visser, en polyéthylène, paroie épaisse*

| Capacity<br>*Capacité*<br>l | Height<br>*Hauteur*<br>mm | Dimensions<br>*Dimension*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 324 | 265 x 147 | **7.190.001** |
| 20 | 435 | 333 x 164 | **7.190.002** |



**7.190.*****



7.190.1**

**Canister,** with screw cap, nature, made of High-Density Polyethylene (HD-PE)

***Jerrican,*** *en polyéthylène (HD-PE), avec bouchon à visser*

| Capacity<br>*Capacité*<br>ml | Dimensions<br>*Dimension*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 1000 | 128 x 70 x 160 | **7.190.101** |
| 2500 | 168 x 97 x 220 | **7.190.103** |
| 3000 | 168 x 97 x 252 | **7.190.105** |



7.193.***

**Storage basins,** white, stackable, made of Polyethylene (PE)

***Cuve de stockage,*** *en polyéthylène (PE) blanc, empilable*

| Capacity<br>*Capacité*<br>l | Dimensions<br>*Dimension*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 310 x 415 x 97 | **7.193.001** |
| 16 | 350 x 540 x 115 | **7.193.002** |

**Germinator DBGM 16711453**
for checking the germinative faculty of seeds, a round filter is put onto the germinating spiral and a filter strip (blotting-paper) which must project into the nutrient solution is damped into the spiral. Heigth 175 mm, outer Ø 75 mm
Made of Polystyrene (PS)

***Enceinte de germination,*** *en polystyrène (PS) pour le contrôle de la germination des semences. Un filtre rond de 70 mm est placé sur le serpentin de germination ainsi qu'une bandelette de filtration (papier de blottage). Composée d'un réservoir d'eau de 250 ml, d'une cloche de fermeture et d'un serpentin*



7.197.***

| | Order No.<br>*N° de code* |
|---|---|
| Complete/*Complet* | **7.197.001** |
| **Spare parts /** *Pièces de rechange* | |
| Germinating hood, made of PS<br>*Cloche de germination, en PS* | **7.198.001** |
| Germinating spiral, made of PS<br>*Serpentin de germination, en PS* | **7.199.001** |
| Water container, 250 ml, made of PS<br>*Réservoir d'eau de 250 ml, en PS* | **7.200.001** |

**Atom model construction kit,** for intuitive instruction purposes, with 520 compnents parts supplied in a storage container with 12 partitions

***Kit de modèles atomiques*** *pour l'enseignement, composé de 520 pièces réparties sur 12 compatiments, dans coffret*



7.201.***

| | Colour<br>*Couleur* | Description | Order No.<br>*N° de code* |
|---|---|---|---|
| Complete, with 520 component parts/*Complet* | | | **7.201.001** |
| **<u>Equipment:</u>**<br>**Spheres Ø 25 mm /** *Sphères de 25 mm* | | | |
| 30 pcs. | ● | - satured carbon (C) / *Carbone saturé (C)* | |
| 20 pcs. | ● | - ethylene ($C_2H_4$) / *Ethylène ($C_2H_4$)* | |
| 10 pcs. | ● | - acethylene ($C_2H_2$) / *Acéthylène ($C_2H_2$)* | |
| 25 pcs. | ● | - halogene / *Halogène* | |
| 20 pcs. | ● | - sulphur (S) etc. / *Soufre (S) etc.* | |
| 20 pcs. | ● | - sodium (Na), potassium (K) etc.<br>*- Sodium (Na), potassium (K) etc.* | |
| **Spheres Ø 20 mm /** *Sphères de 20 mm* | | | |
| 30 pcs. | ● | - oxygen (O) / *Oxygène (O)* | |
| 30 pcs. | ● | - nitrogen (N), phosphorus (P) etc.<br>*- Azote (N), Phosphore (P) etc.* | |
| 30 pcs. | ● | - aluminium (Al), chromium (Cr) etc.<br>*- Aluminium (Al), Chrome (Cr) etc.* | |
| 30 pcs. | ● | - calcium (Ca), magnesium (Mg) etc.<br>*- Calcium (Ca), Magnésium (Mg) etc.* | |
| **Spheres Ø 13 mm with pin /** *Sphères de 13 mm* | | | |
| 125 pcs.<br>150 pcs. connection pins<br>*150 liaisons* | ○ | - hydrogen (H) / *Hydrogène (H)* | |

**ST-sleeves for joints,** with rim, for sticking onto ST-cone, thickness 0.4 mm. Ensures a gas- and liquid-tight connection. No grease is necessary. Made of Polytetrafluorethylene (PTFE)

***Manchette pour rodages,*** *en Téflon (PTFE), assurant une excellente étanchéité entre les jonctions et ne nécessite pas de graisse*

| ST | Order No. / *N° de code* |
|---|---|
| 10/19 | 7.202.001 |
| 14/23 | 7.202.002 |
| 19/26 | 7.202.003 |
| 24/29 | 7.202.004 |
| 29/32 | 7.202.005 |
| 34/35 | 7.202.006 |



7.202.***

**ST-stoppers, solid,** made of Polytetrafluorethylene (PTFE)

***Bouchon rodé,*** *plein, en Téflon (PTFE)*

| ST | Order No. / *N° de code* |
|---|---|
| 10/19 | 7.203.001 |
| 14/23 | 7.203.002 |
| 19/26 | 7.203.003 |
| 24/29 | 7.203.004 |
| 29/32 | 7.203.005 |
| 34/35 | 7.203.006 |



7.203.***

**ST-short adapters,** (reduction adapter) socket to cone Made of Polytetrafluorethylene (PTFE)

***Réducteur*** *à rodage conique mâle (extérieur ) et à rodage femelle (intérieur), en Téflon (PTFE)*

| Cone / *Rodage mâle* / ST | Socket / *Rodage femelle* / ST | Order No. / *N° de code* |
|---|---|---|
| 14/23 | 19/26 | 7.204.001 |
| 19/26 | 29/32 | 7.204.003 |



7.204.***

**Beakers,** heavy wall, with spout, made of Polytetrafluorethylene (PTFE)

***Bécher à bec verseur,*** *en Téflon (PTFE) à paroie épaisse*

| Capacity / *Capacité* / ml | Order No. / *N° de code* |
|---|---|
| 1 | 7.205.001 |
| 5 | 7.205.002 |
| 10 | 7.205.003 |
| 25 | 7.205.004 |
| 50 | 7.205.005 |
| 100 | 7.205.006 |
| 250 | 7.205.007 |
| 500 | 7.205.008 |
| 1000 | 7.205.009 |



7.205.***

**Bottles,** heavy wall, with screw cap, made of Polytetrafluorethylene (PTFE)

***Flacon*** *à col fileté avec bouchon à visser, en Téflon (PTFE) à paroie épaisse*

| Capacity / *Capacité* / ml | Order No. / *N° de code* |
|---|---|
| 10 | 7.206.001 |
| 25 | 7.206.002 |
| 50 | 7.206.003 |
| 100 | 7.206.004 |



7.206.***

**Evaporating dishes,** low form, with spout and notation, made of Polytetrafluorethylene (PTFE)

***Capsule d'évaporation,*** *forme basse, à bec verseur, en Téflon (PTFE)*

| Capacity / *Capacité* / ml | Outer Ø / *Ø ext.* / mm | Height / *Hauteur* / mm | Order No. / *N° de code* |
|---|---|---|---|
| 25 | 42 | 25 | 7.207.001 |
| 100 | 80 | 28 | 7.207.002 |



7.207.***



7.209.***

**Watch glass dishes,**
made of Polytetrafluorethylene (PTFE)

***Verre de montre,*** *en Téflon (PTFE)*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 50 | **7.209.002** |
| 75 | **7.209.003** |
| 100 | **7.209.004** |
| 125 | **7.209.005** |



7.211.***

**Magnet stirring bars,** cylindrical,
with permanent magnet, made of
Polytetrafluorethylene (PTFE)

***Barreau magnétique droit,*** *en Téflon (PTFE)*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 3 | 6 | **7.211.001** |
| 3 | 8 | **7.211.002** |
| 4.5 | 12 | **7.211.003** |
| 4.5 | 15 | **7.211.004** |
| 6 | 20 | **7.211.005** |
| 6 | 25 | **7.211.006** |
| 6 | 30 | **7.211.007** |
| 6 | 35 | **7.211.008** |
| 8 | 40 | **7.211.009** |
| 8 | 45 | **7.211.010** |
| 8 | 50 | **7.211.011** |
| 9 | 60 | **7.211.012** |
| 9 | 70 | **7.211.013** |
| 10 | 80 | **7.211.014** |



7.212.***

**Magnet stirring bars,** cylindrical, with ring,
with permanent magnet, made of
Polytetrafluorethylene (PTFE)

***Barreau magnétique droit à anneau central,***
*en Téflon (PTFE)*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 3 | 8 | **7.212.001** |
| 5 | 12 | **7.212.002** |
| 5 | 15 | **7.212.003** |
| 6 | 20 | **7.212.004** |
| 6 | 25 | **7.212.005** |
| 6 | 30 | **7.212.006** |
| 6 | 35 | **7.212.007** |
| 7 | 40 | **7.212.008** |
| 8 | 45 | **7.212.009** |
| 8 | 50 | **7.212.010** |
| 9 | 60 | **7.212.011** |
| 9 | 70 | **7.212.012** |



7.212.1**

**Magnet stirring bars,** Circulus®,
dump-bell shaped, excellent centering,
made of Polytetrafluorethylene (PTFE)

***Barreau magnétique circulus®*** *(à 2 rondelles de 20 mm), en Téflon (PTFE), idéal pour les récipients à fond arrondi ou convexe*

| Length<br>*Longueur*<br>mm | Rod Ø<br>mm | Disc Ø<br>*Disque Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 37 | 8 | 20 | **7.212.137** |
| 54 | 8 | 20 | **7.212.154** |



7.213.***

**Magnet stirring bars,** triangular, with
permanent magnet, made of
Polytetrafluorethylene (PTFE)

***Barreau magnétique triangulaire***
*en Téflon (PTFE), pour la dissolution de solides et pour le mélange de sédiments*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 8 | 12 | **7.213.001** |
| 8 | 25 | **7.213.002** |
| 10 | 35 | **7.213.003** |
| 12 | 50 | **7.213.004** |

**Set of 13 magnetic stirring bars made of Polytetrafluorethylene (PTFE),** consisting of 8 cylindrical bars of 10x6, 15 x 4.5, 20 x 6, 25 x 6, 30 x 6, 40 x 8, 50 x 8, 60 x 9 mm;
3 cylindrical bars with ring of 15 x 4.5, 25 x 6, 40 x 8 mm;
2 triangular bars of 25 x 8 and 40 x 14mm and 1 bar retriever of 150mm.
Supplied in box

***Etui de 13 barreaux magnétiques en Téflon (PTFE)*** *composé de: 8 barreaux cylindriques de 10 x 6, 15 x 4.5, 20 x 6, 25 x 6, 30 x 6, 40 x 8, 50 x 8, 60 x 9 mm;*
*3 barreaux cylindriques avec anneau de 15 x 4.5, 25 x 6, 40 x 8 mm;*
*2 barreaux triangulaires de 25 x 8 et 40 x 14mm et 1 extracteur de barreau aimanté de 150mm*

| Order No.<br>*N° de code* |
|---|
| 7.213.112 |



7.213.112

**Magnet stirring bars,** oval, with permanent magnet, especially for round bottom flasks, made of Polytetrafluorethylene (PTFE)

***Barreau magnétique à forme élliptique,*** *en Téflon (PTFE), adapté aux ballons à fond rond*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 10.5 | 20 | 7.214.001 |
| 12 | 25 | 7.214.002 |
| 15 | 30 | 7.214.003 |
| 15 | 35 | 7.214.004 |
| 20 | 40 | 7.214.005 |
| 20 | 50 | 7.214.006 |
| 20 | 65 | 7.214.007 |
| 20 | 71 | 7.214.008 |



7.214.***

**Magnet stirring bar retrievers,** magnet only at one end, stem can be screwed off, made of Polytetrafluorethylene (PTFE)

***Extracteur de barreau,*** *baguette à aimant en Téflon (PTFE)*

| Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 150 | 7.218.001 |
| 10 | 250 | 7.218.002 |
| 10 | 300 | 7.218.003 |
| 10 | 350 | 7.218.004 |
| 10 | 400 | 7.218.005 |



7.218.***

**Hand-vacuum pump**
Light and portable.The pumping performance is 15 l/stroke. It is equipped with a valve to remove the vacuum.
Supplied with nozzle for tubings of 1/4" i.D.
Made of Polystyrol (PS)

***Pompe à vide manuelle,*** *en polystyrène (PS), légère et portable à forte capacité d'aspiration atteignant un vide limite de 625 mm/Hg et un débit de pompage de 15 l/course. Equipée d'une vanne et adaptée pour la filtration et dessicateur sous vide, le tansfert et l'échantillonnage de liquide, le prélevement de gaz. Raccord pour tube de 6 mm dia. int.*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Without pressure gauge<br>*Pompe manuelle sans jauge* | 7.222.001 |
| With pressure gauge<br>*Pompe manuelle avec jauge à vide calibrée pour vide et pression* | 7.222.002 |



7.222.002

**Pourer, with sealing caps**
Insertion tube conical so to be used various container openings, made of Polyethylene (PE)

***Bec verseur à 2 cols,*** *avec capuchons de fermeture, en polyéthylène (PE) avec tube d'insertion conique pouvant être utilisé sur différents containers*

| Size<br>*Taille*<br>No. | Conus<br>*Cône*<br>mm | Poure neck Ø<br>*Cols*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 19 - 24 | 16 + 10 | 7.225.001 |
| 3 | 25 - 30 | 16 + 10 | 7.225.002 |
| 4 | 28 - 34 | 16 + 10 | 7.225.003 |



7.225.***

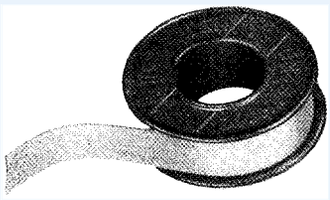
**Teflon-spray „Klingerflon“,** the wax-like protective coating, excellent greasing, gliding and separating agent

***Téflon en spray „Klingerflon“,*** *bombe de vaporisation*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 400 | 7.228.001 |




7.228.***



7.230.***

**Teflon-sealing tape „Klingerflon“ (PTFE),** for wrapping around parts which should be resistant to all kinds of chemicals at temperatures from - 150 °C to + 260 °C

***Bande de téflon (PTFE) „Klingerflon“*** *pour étanchéité, livrée en rouleau*

| Width<br>*Largeur*<br>mm | Length<br>*Longueur*<br>m | Thickness<br>*Eppaiseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 12 | 12 | 0.1 | **7.230.001** |
| 12 | 12 | 0.08 | **7.230.002** |



7.233.***

**Clips, with Polyethylene coating,** corrosion-resistant

***Clips d'attache en métal*** *avec revêtement en polyéthylène*

| For Ø<br>*Pour Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 6 | **7.233.001** |
| 9 | **7.233.002** |
| 13 | **7.233.003** |
| 18 | **7.233.004** |
| 25 | **7.233.005** |
| 32 | **7.233.006** |
| 38 | **7.233.007** |

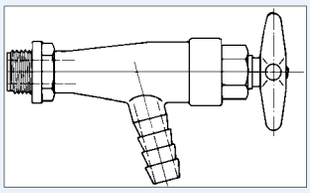


7.239.***

**Laboratory clips, made of plastic, Delrin, clear blue,** establish order and survey, save space. In bags of 100 pcs. Use as drawer organizers

***Clips d'attache de laboratoire en plastique bleu,*** *en sachet de 100 pièces*

| Clips Ø<br>mm | Order No.<br>*N° de code* |
|---|---|
| 8.8 | **7.239.001** |
| 11.3 | **7.239.002** |
| 15 | **7.239.003** |
| 20 | **7.239.004** |
| 25 | **7.239.005** |
| 30 | **7.239.006** |
| 37 | **7.239.007** |
| 45 | **7.239.008** |
| 60 | **7.239.009** |

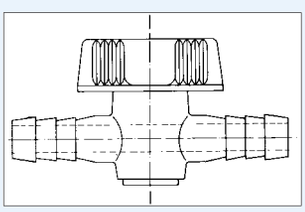


7.248.***

**Valve right angle,** with tubing connector, with fine thread, heatresistant up to 115 °C, acid-resistant, resistant to pressures up to 1.5 bar, made of Polyethylene (PE)

***Vanne à robinet à angle droit*** *et raccord à olive pour tuyau, en polyéthylène (PE) résistant jusqu'à 115°C, aux acides et aux pressions jusqu'à 1.5 bar*

| Thread<br>*Filetage* | Connection outer Ø<br>*Raccord Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 1/2“ | 12 | **7.248.001** |

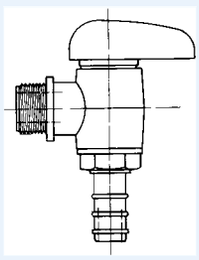


7.249.***

**Stopcock, straight bore,** with tubing connectors. Only suitable for operation without pressure, made of Polyethylene (PE)

***Robinet à voie droite*** *et raccord à olive pour tuyau, en polyéthylène (PE) résistant aux acides. A ne pas utiliser sous pression*

| | Connection outer Ø<br>*Raccord Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| | 12 | **7.249.001** |
| | 10 | **7.249.002** |



7.250.***

**Stopcock right angle,** with thread and tubing connector, for pressures up to 1.5 bar, made of Polyethylene (PE)

***Robinet à angle droit*** *et raccord à olive pour tuyau, en polyéthylène (PE) résistant aux acides et pressions jusqu'à 1.5 bar*

| Thread<br>*Filtage* | Connection outer Ø<br>*Raccord Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 1/2“ | 12 | **7.250.001** |

**Syphon,** with PVC-tube. Suitable for filling liquids out of barrel, carboys and canisters, made of Polyethylene (PE)

***Vide-tourie manuel (pompe vide-fûts)*** *en polyéthylène, avec tube à immersion en PVC, pour le transvasement de liquides des barils, jerricans etc.*

| Length of tubing<br>*Longueur d'immersion*<br>mm | Connection outer Ø<br>*Raccord Ø ext.*<br>mm | Output<br>l/min | Order No.<br>*N° de code* |
|---|---|---|---|
| 1000 | 10 | 5 | **7.251.001** |



**7.251.***

**OTAL-filling foot pumps,** all-purpose, resistant to acids, alkalis and solvents, simple filling

***Pompe vide-fût OTAL universel manuel à commande à pied*** *pour débit jusqu'à 30 l/min. Plongeant en polypropylène*

| For vessels with top Ø<br>*Pour cols de Ø*<br>mm | Tube outer Ø<br>*Tube de Ø ext.*<br>mm | Output<br>*Débit*<br>l/min | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 - 70 | 22 | 30 | **7.252.001** |

**OTAL-filling hand pumps,** all-purpose, resistant to acids, alkalis and solvents, simple filling

***Pompe vide-fût OTAL universel manuel à commande à main*** *pour débit jusqu'à 26 l/min. Plongeant en polypropylène*

| For vessels with top Ø<br>*Pour cols de Ø*<br>mm | Tube outer Ø<br>*Tube de Ø ext.*<br>mm | Output<br>*Débit*<br>l/min | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 - 70 | 18 | 26 | **7.252.005** |



**7.252.***

**Square container,** wide neck, made of PVC, with screw cap, made of Polypropylene (PP)

***Flacon carré à col large fileté,*** *en PVC clair ou ambré, avec bouchon à visser en polypropylène (PP)*

| Capacity<br>*Capacité*<br>ml | Neck Ø<br>*Col Ø*<br>mm | Height<br>*Hauteur*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| **Clear /** *PVC clair tansparent* | | | | |
| 50 | 32 | 60.5 | 38 x 38 | **7.253.001** |
| 100 | 40 | 71 | 46 x 46 | **7.253.002** |
| 200 | 50 | 88 | 59.5 x 59.5 | **7.253.003** |
| 300 | 50 | 94 | 67.5 x 67.5 | **7.253.004** |
| 500 | 65 | 108 | 80.5 x 80.5 | **7.253.005** |
| 750 | 80 | 120 | 91.5 x 91.5 | **7.253.006** |
| 1000 | 80 | 143 | 97.5 x 97.5 | **7.253.007** |
| 2000 | 80 | 187 | 122 x 122 | **7.253.008** |
| **Amber, transparent /** *PVC, ambré transparent* | | | | |
| 50 | 32 | 60.5 | 38 x 38 | **7.253.010** |
| 100 | 40 | 71 | 46 x 46 | **7.253.012** |
| 200 | 50 | 88 | 59.5 x 59.5 | **7.253.013** |
| 500 | 65 | 108 | 80.5 x 80.5 | **7.253.015** |



**7.253.***

**Ice bucket, Dewar-flask,** resistant against liquid nitrogen, thickness of about 15 mm, excellent isolation feature. Can be used with dry ice and cooling mixture, made of red expanded PUR

***Récipient à glace (Dewar)*** *en Polyéturane (PUR) à haute isolation pour la glace carbonique et autre*

| Capacity<br>*Capacité*<br>l | Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 4.5 | 270 | 200 | **7.256.104** |



**7.256.104**

**Safety box,** completely autoclaveable, it is used to carry tubes or urine-stool containers under safe conditions, with silicone gasket and 4 side locks, provided with a stainless steel handle and user sheet with instructions approved by WHO, Bio-hazard symbol on the box, made of PMMA

***Boite de transport sécurisée*** *en plexiglas (PMMA) autoclavable destinée au transport d'échantillons d'urine et de celles selon les recommandations de l'OSM, avec joint en silicone, 4 fermetures et anse en acier inoxydable*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 330 x 175 x 180 | **7.256.569** |



**7.256.569**

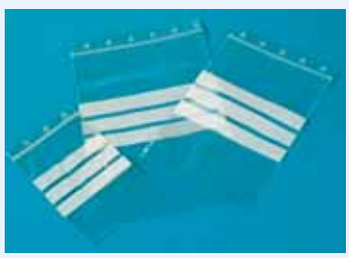


7.256.625

**Frigo-box, square,** Thermally isolated by means of a polyurethane isolating jacket, non-toxic and therefoe 100 % food-safe. A 1 Kg cooling block is available for all sizes 25, 32, and 45 l, suitable to contain 2 safety boxes Order No. 7.256.569 for outside transport, between different laboratories. made of high impact Polystyrene (PS)

***Glacière portative*** *en polystyrène (PS), isothermique et à haute isolation, à utiliser avec des blocs de refroidissement de 1 kg pour le transport d'échantillons. Par ex. deux boites de transport sécurisées No. 7.256.569 peuvent y être logées*

| Capacity<br>*Capacité*<br>l | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 230 x 400 x 350 | **7.256.625** |
| 32 | 260 x 430 x 380 | **7.256.632** |
| 45 | 305 x 525 x 400 | **7.256.645** |
| **Accessories /** *Accessoires* | | |
| Cooling block, 1 Kg / *Bloc de refroidissement, 1kg* | | **7.256.650** |

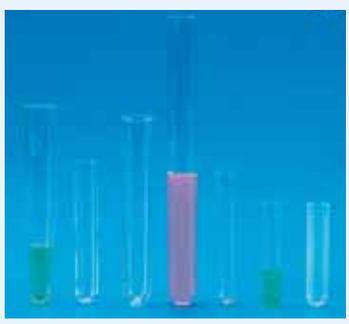


7.265.***

**Bags,** transparent, made of Low-Density Polyethylene (LD-PE) Pack of 100 pcs.

***Sacs à échantillons*** *en polyéthylène (PE-BD) transparent. En paquet de 100 pièces*

| Length<br>*Longueur*<br>mm | Width<br>*Largeur*<br>mm | Thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 180 | 120 | 0.05 | **7.265.101** |
| 250 | 160 | 0.05 | **7.265.102** |
| 300 | 200 | 0.05 | **7.265.104** |
| 360 | 220 | 0.05 | **7.265.105** |
| 400 | 250 | 0.05 | **7.265.106** |
| **With white marking area /** *Avec surface à écrire blanche* | | | |
| 150 | 100 | 0.05 | **7.265.107** |
| 170 | 120 | 0.05 | **7.265.108** |
| 220 | 160 | 0.05 | **7.265.109** |
| 350 | 250 | 0.05 | **7.265.110** |



7.271.***

**Bagfasteners**
Made of plastic-coated wire, red

***Fermetures pour sacs,*** *en fil d'acier à revêtement plastique rouge*

| Length<br>*Longueur*<br>mm | For Bag-width<br>*Largeur de sac*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 50 - 180 | **7.266.001** |
| 150 | 200 - 400 | **7.266.002** |



7.272.***

**Test tubes,** with round bottom, autoclavable up to 121 °C, made of Polypropylene (PP)

***Tubes à essai à fond rond,*** *en polypropylène (PP), autoclavable jusqu'à 121 °C*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 7 | 12 | 100 | **7.271.001** |
| 16 | 18 | 100 | **7.271.002** |
| 31 | 24 | 95 | **7.271.004** |
| 48 | 30 | 100 | **7.271.005** |
| 75 | 35 | 100 | **7.271.006** |
| 110 | 40 | 120 | **7.271.007** |

**Conical centrifuge tubes,** ungraduated, autoclavable up to 121 °C, made of Polypropylene (PP)

***Tubes à centrifuger conique,*** *en polypropylène (PP), autoclavable jusqu'à 121°C, non-gradué*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 16 | 108 | **7.272.001** |
| 15 | 18 | 120 | **7.272.002** |

**Conical centrifuge tubes,** graduated, autoclaveable up to 121 °C, made of Polypropylene (PP)

***Tubes à centrifuger gradué à fond conique,*** *en polypropylène (PP) autoclavable jusqu'à 121 °C*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 16 | 110 | **7.273.001** |
| 15 | 18 | 118 | **7.273.002** |



**7.273.*****

**Conical centrifuge tubes,** graduated, autoclaveable up to 170 °C, made of Polymethylpentene (PMP)

***Tubes à centrifuger gradué à fond conique,*** *en polyméthylpentane (PMP ou TPX) autoclavable jusqu'à 170 °C*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 16 | 110 | **7.273.101** |
| 15 | 18 | 118 | **7.273.102** |



**7.273.1****

**Conical centrifuge tubes,** made of Polypropylene Copolymer (PPCO), graduated and autoclavable. For speed centrifugation up to 6000 x g

***Tubes à centrifuger conique,*** *en PP copolymère (PPCO) gradués, pour centrifugations jusqu'à 6000 x g*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 15 | 10 | **7.274.000** |
| 50 | 10 | **7.274.001** |



**7.274.01***

**Conical centrifuge tubes,** made of Polycarbonate (PC) graduated and autoclavable. For centrifugation up to 6000 x g in refrigerated or non-refrigerated centrifuges

***Tubes à centrifuger conique,*** *en polycarbonate (PC) gradués et autoclacables, pour centrifugations jusqu'à 6000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 15 | 10 | **7.274.010** |
| 50 | 10 | **7.274.011** |

**Round centrifuge tubes,** made of Polypropylene Copolymer (PPCO), graduated and autoclavable. For speed centrifugation up to 50,000 x g in refrigerated or non-refrigerated centrifuges

***Tubes à centrifuger à fond rond,*** *en copolypropylène (PPCO) gradués, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 12 | 10 | **7.274.020** |
| 15 | 10 | **7.274.021** |
| 16 | 10 | **7.274.022** |
| 38 | 10 | **7.274.023** |
| 50 | 10 | **7.274.024** |
| 100 | 10 | **7.274.025** |



**7.274.02***

**Round centrifuge tubes,** made of Low-Density Polyethylene (LD-PE), for use in refrigerated centrifuge up to 10,000 x g at 4 °C

***Tubes à centrifuger à fond rond,*** *en polyéthylène (BD-PE), pour centrifugations réfrigérées jusqu'à 10,000 x g à 4 °C*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 10 | **7.274.030** |



**7.274.03***



7.274.04*

**Round centrifuge tubes,** made of Polycarbonate (PC) autoclavable. For speed centrifugation up to 50,000 x g in refrigerated or non-refrigerated centrifuges

***Tubes à centrifuger à fond rond,*** *en polycarbonate (PC) autoclavable, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 12 | 10 | **7.274.040** |
| 15 | 10 | **7.274.041** |
| 16 | 10 | **7.274.042** |
| 38 | 10 | **7.274.043** |
| 50 | 10 | **7.274.044** |
| 100 | 10 | **7.274.045** |



7.274.05*

**Oak Ridge Centrifuge Tubes,** made of Tetraflouroethylene (FEP) with ETFE screw closure, autoclavable. For high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g. Excellent for chloroform and Phenol extractions. Resistant against any acid, base or solvent

***Tubes à centrifuger à fond rond,*** *en téflon FEP avec bouchon à visser en ETFE, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées. Excellent pour les extractions de chloroforme et de phénol et haute résistance aux acides, bases et solvants*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 2 | **7.274.050** |
| 30 | 2 | **7.274.051** |
| 50 | 2 | **7.274.052** |



7.274.06*

**Oak Ridge Centrifuge Tubes,** made of Polysulfone with Polypropylene (PP) screw closure. For high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g. Strong and tough Polycarbonate and much more acid- and base-resistant

***Tubes à centrifuger à fond rond,*** *en polysulfone avec bouchon à visser en polypropylène, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées. Plus résistant que le polycarbonate et aux acides et bases*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 10 | **7.274.060** |
| 30 | 10 | **7.274.061** |
| 50 | 10 | **7.274.062** |



7.274.07*

**Oak Ridge Centrifuge Tubes,** made of Polycarbonate (PC) with Polypropylene screw closure. For high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g, autoclavable

***Tubes à centrifuger à fond rond,*** *en polycarbonate (PC) avec bouchon à visser en polypropylène, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 10 | **7.274.070** |
| 28 | 10 | **7.274.071** |
| 30 | 10 | **7.274.072** |
| 50 | 10 | **7.274.073** |



7.274.08*

**Oak Ridge Centrifuge Tubes,** made of Polypropylene Copolymer (PPCO) with polypropylene screw closure. for high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g, autoclavable

***Tubes à centrifuger à fond rond,*** *en copolypropylene (COPP) avec bouchon à visser en polypropylène, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 10 | **7.274.080** |
| 28 | 10 | **7.274.081** |
| 30 | 10 | **7.274.082** |
| 50 | 10 | **7.274.083** |

**Oak Ridge Centrifuge Tubes,** made of Polysulfone with sealing Polypropylene (PP) screw closure and silicone gasket, for high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g. Strong and tough Polycarbonate (PC) and much more acid- and base- resistant

***Tubes à centrifuger à fond rond,*** *en polysulfone avec bouchon à visser en polypropylène à joint d'étancheité en silicone, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées. Plus résistant que le polycarbonate et aux acides et bases*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 30 | 10 | **7.274.090** |
| 50 | 10 | **7.274.091** |



**7.274.09***

**Oak Ridge Centrifuge Tubes,** made of Polycarbonate (PC) with Polypropylene (PP) screw closure and silicone gasket, for high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g, autoclavable

***Tubes à centrifuger à fond rond,***
*en polycarbonate (PC) avec bouchon à visser en polypropylène à joint d'étanchéité en silicone, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 10 | **7.274.100** |
| 16 | 10 | **7.274.101** |
| 30 | 10 | **7.274.102** |
| 50 | 10 | **7.274.103** |



**7.274.1****

**Oak Ridge Centrifuge Tubes,** made of Polypropylene Copolymer (PPCO) with Polypropylene (PP) screw closure and silicone gasket, for high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g, autoclavable

***Tubes à centrifuger à fond rond,***
*en copolypropylene (COPP) avec bouchon à visser en polypropylène à joint d'étanchéité en silicone, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 10 | **7.274.110** |
| 16 | 10 | **7.274.111** |
| 30 | 10 | **7.274.112** |
| 50 | 10 | **7.274.113** |



**7.274.11***

**Oak Ridge Centrifuge Tubes,** graduated, made of Polycarbonate (PC) with Polypropylene (PP) screw closure, for high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g, autoclavable

***Tubes à centrifuger à fond rond,*** *gradués, en polycarbonate (PC) avec bouchon à visser en polypropylène, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 35 | 10 | **7.274.120** |



**7.274.12***

**Oak Ridge Centrifuge Tubes,** made of Polypropylene Copolymer (PPCO) with Polypropylene (PP) screw closure, for high-speed refrigerated or non-refrigerated centrifugation of aggressive chemicals up to 50.000 x g, autoclavable

***Tubes à centrifuger à fond rond,***
*en copolypropylene (COPP) avec bouchon à visser en polypropylène, autoclavables, pour centrifugations jusqu'à 50,000 x g réfrigérées ou non-réfrigérées*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 35 | 10 | **7.274.130** |



**7.274.13***



**7.274.14***

**Centrifuge Bottles,** made of translucent Polypropylene Copolymer (PPCO) autoclavable, with Polypropylene (PP) screw closure, with excellent chemical resistance. When using the 250 ml bottle (Order No. 7.274.140) in the Sorvall GSA rotor, use the centrifuge bottle adapter (Order No. 7.274.200). Order No. 7.274.144 is designed for use with IEC rotors

***Flacons à centrifuger,*** *en copolypropylène translucide autoclavable avec fermeture à visser en polypropylène, à haute résistance chimique. Pour l'utilisation des flacons de 250 ml (N° de code 7.274.140) dans un rotor Sorvall GSA il est recommandé d'utiliser un adaptateur (N° de code. 7.274.200) tandis que le flacon de 500 ml (N° de code 7.274.141) est prévu pour les rotors IEC*

**Performances:**
7.274.140 rated for 13,200 x g (Up to 27,500 x g with sealing cap assembly)
7.274.141 rated for 4,800 x g
7.274.142 rated for 4,800 x g
7.274.143 rated for 7,100 x g (For IEC rotors, please use No. 7.274.144)
7.274.144 rated for 7,100 x g

| **Capacity** *Capacité* **ml** | **Packing** *Conditionnemt* **pcs.** | **Order No.** *N° de code* |
|---|---|---|
| 250 | 4 | **7.274.140** |
| 500 | 4 | **7.274.141** |
| 500 | 4 | **7.274.142** |
| 1000 | 4 | **7.274.143** |
| 1000 (IEC) | 4 | **7.274.144** |



**7.274.15****

**Wide-neck centrifuge bottles,** made of High-Density Polyethylene (HD-PE) with Polypropylene (PP) screw closure, for use in refrigerated centrifuges for forces up to 8000 x g. More chemical-resistant than polycarbonate. When using the 250 ml bottle 7.274.150 in the Sorvall GSA rotor, use the centrifuge bottle adapter 7.274.200

***Flacons à centrifuger à col large,*** *en polypropylène haute-densité avec fermeture à visser en polypropylène, à haute résistance chimique et pour centrifugations réfrigérées jusqu'à 8000 x g. Pour l'utilisation dans un rotor Sorvall GSA il est recommandé d'utiliser un adaptateur 7.274.200*

| **Capacity** *Capacité* **ml** | **Packing** *Conditionnemt* **pcs.** | **Order No.** *N° de code* |
|---|---|---|
| 250 | 10 | **7.274.150** |



**7.274.16***

**Centrifuge Bottles,** narrow-mouth made of Polycarbonate (PC) autoclavable, with Polypropylene (PP) screw closure. When using the 250 ml bottle (Order No. 7.274.160) in the Sorvall GSA rotor, use the centrifuge bottle adapter (Order No. 7.274.200). Order No. 7.274.163 is designed for use with IEC rotors

***Flacons à centrifuger,*** *col étroit, en polycarbonate autoclavable avec fermeture à visser en polypropylène. Pour l'utilisation des flacons de 250 ml (N° de code 7.274.160) dans un rotor Sorvall GSA il est recommandé d'utiliser un adaptateur (N° de code 7.274.200) tandis que le flacon de 1000 ml (N° de code 7.274.163) est prévu pour les rotors IEC*

**Performances:**
7.274.160 rated for 27,500 x g
7.274.161 rated for 13,700 x g
7.274.162 rated for 7,100 x g (For IEC rotors please use No. 7.274.163)
7.274.163 rated for 7,100 x g

| **Capacity** *Capacité* **ml** | **Packing** *Conditionnemt* **pcs.** | **Order No.** *N° de code* |
|---|---|---|
| 250 | 4 | **7.274.160** |
| 500 | 4 | **7.274.161** |
| 1000 | 4 | **7.274.162** |
| 1000 (IEC) | 4 | **7.274.163** |



**7.274.200**

**Adapter,** white, made of Low-Density Polyethylene (LD-PE) for use with most 250 ml centrifuge bottles in Sorvall GSA rotors. To be used with centrifuge bottles 7.274.140 and 7.274.160

***Adaptateur,*** *à utiliser sur les rotor GSA Sorvall et avec la plupart des flacons à centrifuger de 250 ml N° de code 7.274.140 et 7.274.160*

| **Outer Ø** *Ø ext.* **mm** | **Packing** *Conditionnemt* **pcs.** | **Order No.** *N° de code* |
|---|---|---|
| 61.5 | 6 | **7.274.200** |

**Centrifuge Bottle,** made of Tetraflouroethylene FEP autoclavable, with ETFE screw closure, for low-speed centrifugation of aggressive chemicals (max. 4000 x g). Excellent for Chloroform and Phenol extractions. Resist any acid, bases and organic solvent. When using this 250-ml bottle in the Sorvall GSA rotor, use the centrifuge bottle adapter (Order No. 7.274.200)

***Flacon à centrifuger,*** *en Téflon FEP avec fermeture à visser en ETFE. Pour l'utilisation de ce flacon dans un rotor Sorvall GSA il est recommandé d'utiliser un adaptateur 7.274.200*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 4 | **7.274.170** |



**7.274.17***

**Centrifuge Bottles,** wide-neck made of Polycarbonate (PC) autoclavable, with sealing Polypropylene (PP) screw closure and silicon gasket. When using the 250 ml bottle (Order No. 7.274.180) in the Sorvall GSA rotor, use the centrifuge bottle adapter (Order No. 7.274.200)

***Flacons à centrifuger,*** *col large, en polycarbonate autoclavable à fermeture étanche à visser en polypropylène avec joint en silicone. Pour l'utilisation des flacons de 250 ml (N° de code 7.274.180) dans un rotor Sorvall GSA il est recommandé d'utiliser un adaptateur (N° de code 7.274.200)*

**Performances:**
7.274.180 rated for 27,500 x g / Centrifugation max. 27,000 x g
7.274.181 rated for 13,700 x g / Centrifugation max. 13,700 x g

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 4 | **7.274.180** |
| 500 | 4 | **7.274.181** |



**7.274.18***

**Centrifuge Bottles,** wide-mouth made of Polypropylen Copolymer (PPCO), with sealing polypropylene screw closure and silicon gasket. When using the 250 ml bottle (Order No. 7.274.190) in the Sorvall GSA rotor, use the centrifuge bottle adapter (Order No. 7.274.200)

***Flacons à centrifuger,*** *col large, en polycarbonate autoclavable à fermeture étanche à visser en copolypropylène avec joint en silicone. Pour l'utilisation des flacons de 250 ml (N° de code 7.274.190) dans un rotor Sorvall GSA il est recommandé d'utiliser un adaptateur (N° de code 7.274.200)*

**Performances:**
7.274.190 rated for 27,500 x g / Centrifugation max. 27,000 x g
7.274.191 rated for 13,700 x g / Centrifugation max. 13,700 x g

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 4 | **7.274.190** |
| 500 | 4 | **7.274.191** |



**7.274.19***

**Adapter,** white, made of Low-Density Polyethylene (LD-PE) for use with most 250 ml centrifuge bottles in Sorvall GSA rotors. To be used with centrifuge bottles 7.274.170, 7.274.180 and 7.274.190

***Adaptateur,*** *à utiliser sur les rotor GSA Sorvall et avec la plupart des flacons à centrifuger de 250 ml N° de code 7.274.170, 7.274.180 et 7.274.190*

| Outer Ø<br>*Ø ext.*<br>mm | Packing<br>*Conditionnemt*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 61.5 | 6 | **7.274.200** |



**7.274.200**

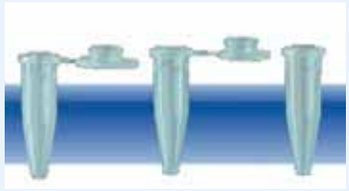
**Centrifuge tubes,** made of Polypropylene (PP), with conical bottom or free-standing with blue screw-cap, printed graduation and marking area, sterile or non-sterile

***Tubes à centrifuger,*** *en polypropylène (PP), à fond conique ou à fond plat avec bouchon à vis bleu, graduation imprimée et surface à écrire, stériles ou non-stérile*

| Capacity<br>*Capacité*<br>ml | Ø x H<br>*Ø x H*<br>mm | Description<br>*Description* | Bottom<br>*Fond* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 15.0 | 17 x 120 | non-sterile | conical/*conique* | 750 | **7.274.300** |
| 15.0 | 17 x 120 | sterile | conical/*conique* | 750 | **7.274.301** |
| 50.0 | 30 x 115 | non-sterile | conical/*conique* | 300 | **7.274.302** |
| 50.0 | 30 x 115 | sterile | conical/*conique* | 300 | **7.274.303** |
| 50.0 | 30 x 115 | non-sterile | flat/*plat* | 250 | **7.274.304** |
| 50.0 | 30 x 115 | sterile | flat/*plat* | 250 | **7.274.305** |



**7.274.3****



7.274.31*

**Micro-tubes,** for centrifuge made of Polyproylene (PP) with tight sealing cap

***Micro-tubes,** à centrifuger en polypropylène (PP) avec capuchon étanche*

| Capacity<br>*Capacité*<br>ml | Colour<br>*Couleur* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.4 Beckmann | ○ | 1000 | **7.274.310** |
| 0.5 | ○ | 1000 | **7.274.311** |
| 1.5 | ○ | 1000 | **7.274.312** |
| 1.5 | yellow | 1000 | **7.274.313** |
| 1.5 | green | 1000 | **7.274.314** |
| 1.5 | red | 1000 | **7.274.315** |
| 1.5 | blue | 1000 | **7.274.316** |
| 1.5 | pink | 1000 | **7.274.317** |
| 1.5 | orange | 1000 | **7.274.318** |
| 1.5 | ○ | 1000 | **7.274.319** |
| 2.0 | ○ | 1000 | **7.274.320** |



7.274.33*

**Micro-tubes,** for centrifuge made of Polyproylene (PP) with screw-cap and lip sealing (max. 17000 g)

***Micro-tubes,** à centrifuger en polypropylène (PP) avec bouchon à visser (max. 17000 g)*

| Capacity<br>*Capacité*<br>ml | Form<br>*Forme* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5 | flat/*plat* | 1000 | **7.274.330** |
| 1.5 | flat/*plat* | 1000 | **7.274.331** |
| 1.5 | conical/*conique* | 1000 | **7.274.332** |
| 2.0 | flat/*plat* | 1000 | **7.274.333** |
| 2.0 | conical/*conique* | 1000 | **7.274.334** |



7.274.34*

**Micro-tubes,** for centrifuge made of Polyproylene (PP) with screw-cap and O-ring (max. 17000 g)

***Micro-tubes,** à centrifuger en polypropylène (PP) avec bouchon à visser avec joint (max. 17000 g)*

| Capacity<br>*Capacité*<br>ml | Form<br>*Forme* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.5 | flat/*plat* | 1000 | **7.274.340** |
| 1.5 | flat/*plat* | 1000 | **7.274.341** |
| 1.5 | conical/*conique* | 1000 | **7.274.342** |
| 2.0 | flat/*plat* | 1000 | **7.274.343** |
| 2.0 | conical/*conique* | 1000 | **7.274.344** |

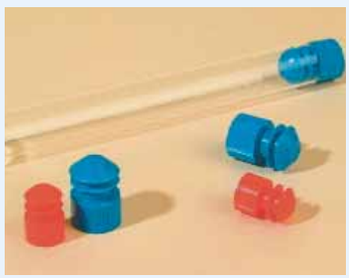


7.274.35*

**Color code inserts,** for use on screw-caps of micro-tubes, made of Polyethylene (PE)

***Codes d'identification colorés,** à insérer dans les bouchons à visser des micro-tubes, en polyéthylène (PE)*

| Colour<br>*Couleur* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| white | 500 | **7.274.350** |
| red | 500 | **7.274.351** |
| blue | 500 | **7.274.352** |
| green | 500 | **7.274.353** |
| yellow | 500 | **7.274.354** |
| pink | 500 | **7.274.355** |



7.274.36*

**Stoppers for test tubes, for Ø 11-12 mm,** made of Polypropylene (PP), very tight seal

***Bouchons à ailettes pour tubes à essais de Ø 11-12 mm,** en polypropylème (PP), très étanche*

| Colour<br>*Couleur* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| ○ | 1000 | **7.274.360** |
| blue | 1000 | **7.274.361** |
| green | 1000 | **7.274.362** |
| red | 1000 | **7.274.363** |
| black | 1000 | **7.274.364** |
| white | 1000 | **7.274.365** |
| yellow | 1000 | **7.274.366** |

**Stoppers for test tubes,** for **Ø 16-17 mm,** made of Polypropylene (PP), very tight seal

***Bouchons à ailettes pour tubes à essais de Ø 16-17 mm,*** *en polypropylème (PP), très étanche*

| Colour<br>*Couleur* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| ○ | 1000 | **7.274.370** |
| ● | 1000 | **7.274.371** |
| ● | 1000 | **7.274.372** |
| ● | 1000 | **7.274.373** |
| ● | 1000 | **7.274.374** |
| ○ | 1000 | **7.274.375** |
| ● | 1000 | **7.274.376** |



**7.274.37***

**Racks for centrifuge tubes,** made of blue Polypropylene (PP), 15 ml or 50 ml

***Portoirs pour tubes à centrifuger*** *en polypropylème (PP), 15 ml ou 50 ml*

| For capacity<br>*Pour capacité*<br>ml | Tubes Ø<br>*Tubes Ø*<br>mm | Places<br>*Places* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 15 | 17 | 5 x 12 | 1 | **7.274.380** |
| 50 | 30 | 3 x 6 | 1 | **7.274.381** |



**7.274.38***

**Pasteur pipettes, disposable,** made of transparent Polyethylene (PE), sterile or non-sterile

***Pipettes de Pasteur, à usage unique,*** *en polyéthylène transparente (PE), stériles ou non-stériles*

| Capacity<br>*Capacité*<br>ml | Length<br>*Longueur*<br>mm | Description<br>*Description* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.2 | 130 | Non-sterile | 1 x 500 | **7.275.000** |
| 1.0 | 104 | Non-sterile | 1 x 400 | **7.275.001** |
| 1.0 | 150 | Non-sterile | 1 x 500 | **7.275.002** |
| 1.0 | 150 | Sterile | 1 x 500 | **7.275.003** |
| 1.0 | 144 | Non-sterile, capill. | 1 x 500 | **7.275.004** |
| 1.0 | 144 | Sterile, capill. | 1 x 500 | **7.275.005** |
| 1.2 | 63 | Non-sterile | 1 x 500 | **7.275.006** |
| 1.5 | 230 | Non-sterile | 1 x 400 | **7.275.007** |
| 1.5 | 230 | Sterile | 1 x 500 | **7.275.008** |
| 2.0 | 155 | Non-sterile | 1 x 500 | **7.275.009** |
| 2.5 | 150 | Non-sterile, grad. | 1 x 500 | **7.275.010** |
| 3.0 macro | 150 | Non-sterile, grad. | 1 x 500 | **7.275.011** |
| 3.0 macro | 150 | Sterile, grad. | 1 x 500 | **7.275.012** |
| 3.0 macro | 150 | Non-sterile | 1 x 500 | **7.275.013** |
| 3.0 macro | 150 | Sterile | 1 x 500 | **7.275.014** |
| 10 | 170 | Non-sterile | 1 x 200 | **7.275.015** |
| 10 | 300 | Non-sterile | 1 x 100 | **7.275.016** |

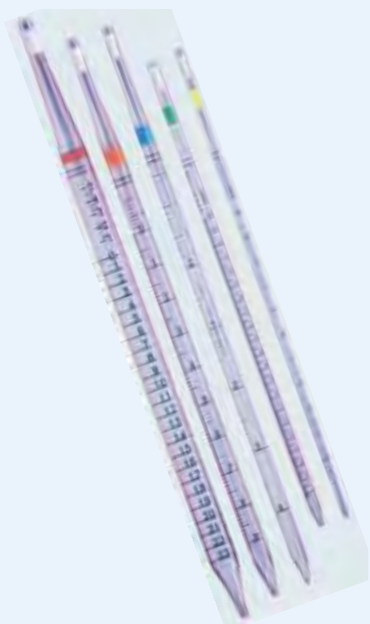


**7.275.*****

**Serological pipettes,** made of clear Polystyrene (PS), sterile individually packed, with color-code

***Pipettes de sérologie,*** *en polystyrène Claire (PS), stériles emballées individuellement, avec code-couleur*

| Capacity<br>*Capacité*<br>ml | Graduation<br>*Graduation*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 0.01 | 500 | **7.275.020** |
| 1.1 | 0.5 - 1 - 1.1 | 500 | **7.275.021** |
| 2 | 0.02 | 500 | **7.275.022** |
| 2.2 | 0.5 - 1 - 2 - 2.1 - 2.2 | 500 | **7.275.023** |
| 5 | 0.1 | 250 | **7.275.024** |
| 5 (short/*court*) | 0.1 | 200 | **7.275.025** |
| 5 (wide/*large*) | 0.1 | 125 | **7.275.026** |
| 10 | 0.1 | 200 | **7.275.027** |
| 10 (short/*court*) | 0.1 | 100 | **7.275.028** |
| 10 (wide/*large*) | 0.2 | 125 | **7.275.029** |
| 25 | 0.2 | 100 | **7.275.030** |
| 50 | 0.5 | 75 | **7.275.031** |



**7.275.02***




**7.276.*****

**Biohazard disposal bags,** sterilizable, with Biohazard symbol, Orange-red, feature a printed sterilization patch that darkens when subjected to steam sterilization. A large black biohazard symbol and precautionary procedures printed in four languages, English, French, German and Spanish are clearly visible for added safety. Made of High Molecular Weight, High-Density Polyethylene (HMHD) and steam autoclavable to 121 °C (250 °F)

***Sacs à usage unique avec symbole Biohazard,*** *en polyéthylène (PE-HD) autoclavables, avec indicateur de stérilisation virant au noir durant la stérilisation à la vapeur (121 °C). Les précautions d'usage sont imprimées en quatre langues (anglais, français, allemand et espagnol) et sont clairement lisibles*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 360 x 480 | 200 | **7.276.000** |
| 480 x 580 | 200 | **7.276.001** |
| 640 x 890 | 200 | **7.276.002** |
| 790 x 970 | 200 | **7.276.003** |
| 970 x 1220 | 100 | **7.276.004** |




**7.276.01***

**Waste disposal Bags BIOHAZARD for autoclave,** Biohazard quality made of strong Polypropylene (PP) – film with blue biohazard, printing specifically designed for contaminated waste disposal, autoclavable at 140 °C

***Sacs à déchets BIOHAZARD pour autoclave,*** *de qualité biohazard en film de Polypropylène (PP) à usage unique avec précautions d'usage biohazard imprimés en bleu, conçus spécialement pour les déchets contaminés, pour stérilisation à 140 °C*

| Width x length<br>*Largeur x Longueur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 300 x 500 | 500 | **7.276.010** |
| 400 x 780 | 500 | **7.276.011** |
| 600 x 800 | 500 | **7.276.012** |
| 700 x 1100 | 350 | **7.276.013** |



**7.276.02***

**Standard waste disposal bags for autoclave,** made of very strong Polypropylene (PP)-film, designed for the contaminated waste labware, suitable for sterilisation at 140 °C

***Sacs standard à déchets pour autoclave,*** *en film de Polypropylène (PP) très robuste à usage unique, concus spécialement pour les déchets contaminés, pour stérilisation à 140 °C*

| Width x length<br>*Largeur x Longueur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 200 x 300 | 500 | **7.276.020** |
| 300 x 500 | 500 | **7.276.021** |
| 400 x 780 | 500 | **7.276.022** |
| 600 x 800 | 500 | **7.276.023** |
| 700 x 1100 | 350 | **7.276.024** |
| **Accessories /** *Accessoires* | | |
| Benchtop tripod for bags 200 x 300 mm<br>*Support-trépied de table pour sachets de 200 x 300 mm* | | **7.276.030** |



**7.276.04***

**Blender Bags,** made of polyethylene with thickness 7µm for homogenisation of solid sample into a solution for testing. Available in 3 sizes.

***Sachets pour malaxeurs*** *en polyéthylène d'épaisseur 7µm, pour l'homogeinisation d'échantillon solide dans une solution pour l'analyse. Disponibles en 3 dimensions.*

| | Order No.<br>*N° de code* |
|---|---|
| For blender 80, 105 x 150mm, packed in sleeve of 25 bags<br>*Pour malaxeur 80, 105 x 150mm, sous-conditionnement de 25 sachets* | **7.276.040** |
| For blender 400, 180 x 300mm, packed in sleeve of 50 bags<br>*Pour malaxeur 400, 180 x 300mm, sous-conditionnement de 50* | **7.276.041** |

**Sterile Bags,** the multifunctional sterile packaging/sampling bag for very different kinds of samples in chemistry, pharmaceuticals, medicine, foodstuffs etc. The bag is made of super-polyethylene and consequently especially tear-proof and leakproof. With labelling area

***Sachets stériles,*** *en polyéthylène étanche pour échantillons et utilisés dans le domaine pharmaceutique, de la chimie, de la médecine et autres. Avec surface à écrire*

| Width x length<br>*Largeur x Longueur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 76 x 127 | 60 | 500 | **7.276.050** |
| 76 x 178 | 180 | 500 | **7.276.051** |
| 114 x 229 | 540 | 500 | **7.276.052** |
| 140 x 229 | 720 | 500 | **7.276.053** |
| 114 x 305 | 810 | 500 | **7.276.054** |
| 178 x 305 | 1650 | 250 | **7.276.055** |



**7.276.05***

**Sterile Bags,** the multifunctional sterile packaging/sampling bag for very different kinds of samples in chemistry, pharmaceuticals, medicine, foodstuffs etc. The bag is made of super-polyethylene and consequently especially tear-proof and leakproof. Without labelling area

***Sachets stériles,*** *en polyéthylène étanche pour échantillons et utilisés dans le domaine pharmaceutique, de la chimie, de la médecine et autres. Sans surface à écrire*

| Width x length<br>*Largeur x Longueur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 76 x 127 | 60 | 500 | **7.276.060** |
| 76 x 178 | 180 | 500 | **7.276.061** |
| 114 x 229 | 540 | 500 | **7.276.062** |
| 140 x 229 | 720 | 500 | **7.276.063** |
| 114 x 305 | 810 | 500 | **7.276.064** |
| 178 x 305 | 1650 | 250 | **7.276.065** |



**7.276.06***

**Stoppers with folding skirt Versilic**
Translucent stoppers in pure silicone. Thermal resistance from - 60 °C to + 220 °C and autoclavable at 121 °C The type shows the diameters of the maximum opening that the stopper can seal

***Bouchons à jupe rabattable Versilic***
*Bouchons translucides en silicone pure. Résistance thermique de - 80 °C à + 150 °C et autoclavable à 121 °C. Le type indique les diamètres de l'ouverture maximale que le bouchon est susceptible d'obturer*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 7.1 | 4.5 x 7.5 | 100 | **7.277.001** |
| 10.2 | 9.8 x 10.2 | 50 | **7.277.002** |
| 12.7 | 12.3 x 13.3 | 50 | **7.277.003** |
| 14.9 | 14.2 x 15.5 | 20 | **7.277.004** |
| 15.9 | 14.5 x 16.5 | 20 | **7.277.005** |
| 19.4 | 15.8 x 17.8 | 20 | **7.277.006** |
| 23.7 | 21.2 x 24.4 | 10 | **7.277.007** |
| 30.7 | 28.0 x 31.4 | 5 | **7.277.008** |



**7.277.*****

**Stoppers with folding skirt**
Made of natural rubber. thermal resistance from - 20 °C to + 100 °C. The type shows the diameters of the maximum opening that the stopper can seal

***Bouchons à jupe rabattable***
*en caoutchouc naturel. résistance thermique de - 20 °C à + 100 °C. Le type indique en millimètres le diamètre de l'ouverture maximale que le bouchon est susceptible d'obturer*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 7.1 | 4.5 x 7.5 | 100 | **7.277.101** |
| 10.2 | 9.8 x 10.2 | 50 | **7.277.102** |
| 12.7 | 12.3 x 13.3 | 50 | **7.277.103** |
| 14.9 | 14.2 x 15.5 | 20 | **7.277.104** |
| 15.9 | 14.5 x 16.5 | 20 | **7.277.105** |
| 19.4 | 15.8 x 17.8 | 20 | **7.277.106** |
| 23.7 | 21.2 x 24.4 | 10 | **7.277.107** |
| 30.7 | 28.0 x 31.4 | 5 | **7.277.108** |



**7.277.1****



7.277.2**

**Double position-stoppers**
Polyethylene for glass or plastic test-tubes. In an elevated position, the stopper allows gaseous exchange to take place; in a lower position, it closes off the test-tube and seals it

***Bouchons à double position***
*en polyéthylène, pour tubes en verre ou en plastique. En position haute, le bouchon permet la ventilation et l'échange gazeux; en position basse, totalement enfoncé, il ferme le tube de manière étanche*

| For tubes Ø<br>*Pour tubes Ø*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 12-13 | 1000 | **7.277.201** |
| 16-17 | 1000 | **7.277.202** |



7.277.3**

**White foam plugs**
autoclavable, reusable (spring back to original shape). Non absorbent

***Bouchons en mousse blanche***
*autoclavables, réutilisables (reprennent leur forme d'origine). Non absorbants*

| For opening Ø<br>*Pour overtures Ø*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 12-13 | 100 | **7.277.301** |
| 16-17 | 80 | **7.277.302** |



7.277.4**

**Vacucap polyethylene stopper caps disposable**
Guarantee triple security:
- no aerosol effect at the aperture as with traditional stoppers
- no contamination of the lab bench
- easy to open with the thumb

Double interior ring seals off test tube - can be used during centrifugation, agitation and refrigeration

***Bouchons coiffants à usage unique Vacucap, en polyéthylène***
*Assurant une triple sécurité:*
*- pas d'effet d'aérosol à l'ouverture comme les bouchons traditionnels*
*- pas de contamination de la paillasse*
*- facilité d'ouverture avec le pouce*
*Double collerette interne qui fait joint et permet l'utilisation en centrifugation, agitation, réfrigération*

| For tubes Ø<br>*Pour tubes Ø*<br>mm | Colour<br>*Couleur* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 13 | ○ | 1000 | **7.277.401** |
| 13 | ● | 1000 | **7.277.402** |
| 13 | ● | 1000 | **7.277.403** |
| 13 | ● | 1000 | **7.277.404** |
| 13 | ● | 1000 | **7.277.405** |
| 13 | ● | 1000 | **7.277.406** |
| 16 | ○ | 1000 | **7.277.407** |
| 16 | ● | 1000 | **7.277.408** |
| 16 | ● | 1000 | **7.277.409** |
| 16 | ● | 1000 | **7.277.410** |
| 16 | ● | 1000 | **7.277.411** |
| 16 | ● | 1000 | **7.277.412** |



7.277.5**

**Multi-Fit caps,,**
made of Polyethylene (PE), white, fit all test-tubes with a diameter of 12 to 16 mm. No sterilizable

***Capuchons Multi-Fit,***
*en polyéthylène souple, blanc, adaptables sur tous les tubes de diamètre 12 à 16mm.*
*Non autoclavables*

| For tubes Ø<br>*Pour tubes Ø*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 12-16 | 1000 | **7.277.501** |



7.277.6**

**Tapval flexible stoppers,**
can be pierced, in white rubber with two cross-shaped vents. Seals hermetically, for filling and sampling within the test-tube without the need to remove the stopper

***Bouchons Tapval souples,***
*en caoutchouc blanc transperçable, avec 2 fentes en croix se refermant hermétiquement, pour remplissage et prélèvement dans le tube, sans retirer le bouchon*

| For tubes Ø<br>*Pour tubes Ø*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 13 | 1000 | **7.277.601** |
| 16 | 1000 | **7.277.602** |

**Reusable vented caps,** for sterile but not hermetic closure of culture tubes or sample vials without screw

***Capuchons ventilés réutilisables,*** *pour la fermeture stérile mais non-hemétique des tubes de cultures ou flacons à échantillons sans col à vis*

| For tubes Ø<br>*Pour tubes Ø*<br>mm | Colour<br>*Couleur* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 13 | ● | 1000 | 7.277.701 |
| 13 | ○ | 1000 | 7.277.702 |
| 13 | ● | 1000 | 7.277.703 |
| 13 | ● | 1000 | 7.277.704 |
| 13 | ● | 1000 | 7.277.705 |
| 13 | ● | 1000 | 7.277.706 |
| 16 | ● | 1000 | 7.277.707 |
| 16 | ○ | 1000 | 7.277.708 |
| 16 | ● | 1000 | 7.277.709 |
| 16 | ● | 1000 | 7.277.710 |
| 16 | ● | 1000 | 7.277.711 |
| 16 | ● | 1000 | 7.277.712 |
| 19 | ● | 1000 | 7.277.713 |
| 19 | ○ | 1000 | 7.277.714 |
| 19 | ● | 1000 | 7.277.715 |
| 19 | ● | 1000 | 7.277.716 |
| 19 | ● | 1000 | 7.277.717 |
| 19 | ● | 1000 | 7.277.718 |
| 25 | ● | 500 | 7.277.719 |
| 25 | ○ | 500 | 7.277.720 |
| 25 | ● | 500 | 7.277.721 |
| 25 | ● | 500 | 7.277.722 |
| 38 | ○ | 250 | 7.277.723 |



7.277.7**

**Caps and stoppers in Versilic**
silicone elastomer. Very good resistance to ozone ageing and to repeated sterilization for temperatures from - 60 °C to + 220 °C

***Capuchons et bouchons Versilic***
*en élastomère silicone non toxique, très bonne résistance au vieillissement à l'ozone et aux stérilisations répétées pour températures de - 60 °C à + 220 °C*

| Tube outside Ø<br>*Ø extérieur du tube*<br>mm | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 500 | 7.277.801 |
| 12 | 500 | 7.277.802 |
| 14 | 500 | 7.277.803 |
| 16 | 100 | 7.277.804 |
| 18 | 100 | 7.277.805 |
| 20 | 100 | 7.277.806 |
| 22 | 100 | 7.277.807 |
| 25 | 100 | 7.277.808 |
| 30 | 100 | 7.277.809 |
| 35 | 100 | 7.277.810 |
| 42 | 100 | 7.277.811 |
| 45 | 100 | 7.277.812 |
| 50 | 100 | 7.277.813 |



7.277.8**

**Screw-caps,** made of Polypropylen (PP), with seal autoclavable up to 140 °C

***Capuchons à visser,*** *en polypropylène (PP), avec joint, autoclavable jusqu'à 140 °C*

| GL | Ø x Height<br>*Ø x Hautueur*<br>mm | Colour<br>*Couleur* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 33 x 19 | ● | 10 | 7.277.901 |
| 32 | 40 x 24 | ● | 10 | 7.277.902 |
| 45 | 54 x 26 | ● | 10 | 7.277.903 |
| 45 | 54 x 26 | ● | 10 | 7.277.904 |
| 45 | 54 x 26 | ● | 10 | 7.277.905 |
| 45 | 54 x 26 | ● | 10 | 7.277.906 |



7.277.9**

**Screw-caps**
Polypropylen (PP), blue welded-in PTFE membrane for pressure compensation. Max. temperature resistance 140 °C

***Capuchons à visser***
*en polypropylène (PP) bleu, avec membrane en PTFE soudée pour compensation de pression. Température max. 140 °C*

| GL | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 45 | 5 | 7.277.951 |



7.278.***

**Stoppers with flanges**
made of natural Polyethylene (PE)

***Bouchons à ailettes***
*en polyethylene (PE)*

| Dimensions ( A x H x B x D)<br>*Dimensions (A x H x B x D)*<br>mm | Colour<br>*Couleur* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 9.5 x 10.5 x 10.7 x 2.2 | | 1000 | **7.278.001** |
| 9.5 x 10.5 x 10.7 x 2.2 | | 1000 | **7.278.002** |
| 10.5 x 16.3 x 13 x 7.4 | | 1000 | **7.278.101** |
| 11 x 17 x 11.5 x 8.7 | | 1000 | **7.278.201** |
| 11 x 17 x 11.5 x 8.7 | | 1000 | **7.278.202** |
| 11 x 17 x 11.5 x 8.7 | | 1000 | **7.278.203** |
| 11 x 17 x 11.5 x 8.7 | | 1000 | **7.278.204** |
| 11 x 17 x 11.5 x 8.7 | | 1000 | **7.278.205** |
| 11 x 17 x 11.5 x 8.7 | | 1000 | **7.278.206** |
| 11 x 16.5 x 11.5 x 7 | | 1000 | **7.278.301** |
| 11 x 16.5 x 11.5 x 7 | | 1000 | **7.278.302** |
| 11 x 16.5 x 11.5 x 7 | | 1000 | **7.278.303** |
| 11 x 16.5 x 11.5 x 7 | | 1000 | **7.278.304** |
| 11 x 16.5 x 11.5 x 7 | | 1000 | **7.278.305** |
| 13.5 x 17.2 x 17 x 8.7 | | 1000 | **7.278.401** |
| 13.5 x 17.2 x 17 x 8.7 | | 1000 | **7.278.402** |
| 13.5 x 17.2 x 17 x 8.7 | | 1000 | **7.278.403** |
| 13.5 x 17.2 x 17 x 8.7 | | 1000 | **7.278.404** |
| 13.5 x 20 x 16.8 x 10 | | 1000 | **7.278.501** |
| 13.5 x 20 x 16.8 x 10 | | 1000 | **7.278.502** |
| 13.5 x 20 x 16.8 x 10 | | 1000 | **7.278.503** |
| 13.5 x 20 x 16.8 x 10 | | 1000 | **7.278.504** |
| 13.5 x 20 x 16.8 x 10 | | 1000 | **7.278.505** |



7.278.6**

**Weighing funnels**
made of Polyethylene (PE)

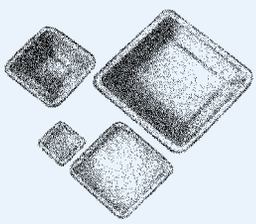
***Entonnoir de pesée,*** *en polyéthylène (PE)*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 2 | 15 | 40 | **7.278.601** |
| 12 | 25 | 65 | **7.278.602** |
| 38 | 38 | 100 | **7.278.603** |

**Disposable weighing dishes,** made of Polystyrol, white, with smooth inside surface and rounded edges. For weighing powder and liquids

***Nacelles de pesée à usage unique,*** *en polystyrène blanche à bord rodé, pour le pesage de poudres et liquides*

| Capacity<br>*Capacité*<br>ml | Dimension<br>*Dimension*<br>mm | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 7 | 44 x 44 x 7 | 500 | 7000 | **5.484.707** |
| 100 | 80 x 80 x 20 | 500 | 5000 | **5.484.710** |
| 250 | 140 x 140 x 25 250 | 2000 | | **5.484.725** |



5.484.8**

**Disposable weighing dishes,** made of Polystyrol (PS), with smooth inside surface and rounded edges. For weighing powder and liquids. Diamond shaped

***Nacelles de pesée à usage unique***
*en polystyrène (PS) blanche ou noire à bord rodé, pour le pesage de poudres et liquides*

| Capacity<br>*Capacité*<br>ml | Dimension<br>*Dimension*<br>mm | Colour<br>*Couleur* | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 5 | 31 x 55 x 5 | | 1000 | | **5.484.801** |
| 5 | 31 x 55 x 5 | | 1000 | | **5.484.802** |
| 30 | 56 x 85 x 15 | | 500 | | **5.484.803** |
| 30 | 56 x 85 x 15 | | 500 | | **5.484.804** |
| 100 | 96 x 135 x 19 | | 250 | | **5.484.805** |
| 100 | 96 x 135 x 19 | | 250 | | **5.484.806** |



5.484.4**

**Small beaker for taking medicine,**
graduated. made of Polyethylene (PE)

***Bécher gradué de prélèvement médical***
*en polyéthylène (PE)*

| Capacity<br>*Capacité*<br>ml | Colour<br>*Couleur* | Bag<br>*Sachet*<br>pcs. | Carton<br>*Carton*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 20 | | 50 | 2500 | **5.484.400** |
| 20 | | 50 | 2500 | **5.484.401** |
| 20 | | 50 | 2500 | **5.484.402** |
| 20 | | 50 | 2500 | **5.484.403** |
| 20 | | 50 | 2500 | **5.484.404** |

## Special glassware for dissolution testers

*Verrerie spéciale pour appareils de dissolution*

**Dissolution vessels** for the most popular testing instruments. These graduated vessels are made by WITEG, of high quality clear or amber borosilicate glass and in clear or amber plastic and are designed to meet old and new dissolution instrument manufacturer specifications from Caleva – Distek - Erweka - Hanson - Pharmatest - Sotax - Varian/VanKel. Please send us your requirements for a specific offer

***Vases de dissolution*** *pour utilisation avec les dissolutests les plus courants. Ces vases gradués sont fabriqués par WITEG et sont en verre borosilicaté ou en plastique, clair ou ambré, et répondant aux spécifications des anciens et nouveaux instruments de Caleva – Distek - Erweka Hanson - Pharmatest - Sotax - Varian/VanKel. Nous adresser votre demande pour une offre spécifique à vos besoins*

| **Description**<br>***Description*** | **Manufacturer's reference**<br>***Référence du fabricant*** | **Order No.**<br>***N° de code*** |
|---|---|---|
| | **CALEVA** | |
| 1000 ml clear glass vessel | 203020 | **7.300.100** |
| 1000 ml amber glass vessel | 203018 | **7.300.101** |
| 1000 ml clear plastic vessel | 203026 | **7.300.102** |
| | **DISTEK** | |
| 200 ml clear glass vessel | - | **7.300.110** |
| 500 ml clear glass vessel | - | **7.300.111** |
| 1000 ml clear glass vessel | 0500-0093 | **7.300.112** |
| 1000 ml clear glass vessel & Acculign centering ring | 3010-0093 | **7.300.113** |
| 1000 ml amber glass vessel & Acculign centering ring | - | **7.300.114** |
| 1000 ml amber glass vessel | 0500-0023 | **7.300.115** |
| 1000 ml clear plastic vessel | 3350-0095 | **7.300.116** |
| 1000 ml amber plastic vessel | 0500-0302 | **7.300.117** |
| 2000 ml clear glass vessel | 3010-0285 | **7.300.118** |
| | **ERWEKA** | |
| 1000 ml clear glass vessel | 80-000-1002 | **7.300.120** |
| 1000 ml amber glass vessel | 80-000-1004 | **7.300.121** |
| 1000 ml clear plastic vessel | - | **7.300.122** |
| 2000 ml clear glass vessel | 80-000-1004 | **7.300.123** |
| 4000 ml clear glass vessel | 80-000-4002 | **7.300.124** |
| 4000 ml amber glass vessel | 80-000-4004 | **7.300.125** |
| | **HANSON** | |
| 500 ml clear glass vessel | - | **7.300.130** |
| 1000 ml clear glass vessel | 7000-G | **7.300.131** |
| 1000 ml amber glass vessel | 7000-GA | **7.300.132** |
| 1000 ml clear plastic vessel | 7000-P | **7.300.133** |
| 2000 ml clear glass vessel | 7000-2L | **7.300.134** |
| | **PHARMATEST** | |
| 1000 ml clear glass vessel | 303-5225 | **7.300.140** |
| 1000 ml amber glass vessel | 303-5225B | **7.300.141** |
| | **SOTAX** | |
| 1000 ml clear glass vessel | 2503 | **7.300.150** |
| 1000 ml amber glass vessel | - | **7.300.151** |
| | **VANKEL** | |
| 500 ml clear glass vessel | 12-5060 | **7.300.160** |
| 1000 ml clear glass vessel | 12-5000 | **7.300.161** |
| 1000 ml amber glass vessel | 12-5010 | **7.300.162** |
| 1000 ml clear plastic vessel | 12-5000 | **7.300.163** |
| 1000 ml PEAK glass vessel | 12-5500 | **7.300.164** |
| 2000 ml clear glass vessel | 12-5070 | **7.300.165** |



**7.300.100**



**7.300.101**



**7.300.111**



**7.300.116**



**7.300.117**



**7.300.131**



**7.300.132**



**7.300.164**



**7.300.134**



**Evaporating-dishes,** cylindrical form, made of platinum

***Cristallisoirs,*** *forme cylindrique, en platine*

| Outer Ø<br>*Ø ext.*<br>(D) mm | Height<br>*Hauteur*<br>(H) mm | Base<br>*Fond*<br>(s) mm | Capacity<br>*Capacité*<br>ml | Weight<br>*Poids*<br>g | with spout<br>*avec bec* | without spout<br>*sans bec* | Cover<br>*Couvercle* |
|---|---|---|---|---|---|---|---|
| 40 | 20 | 0.15 | 20 | 9 | **7.301.500** | **7.301.520** | - |
| 50 | 25 | 0.16 | 35 | 14 | **7.301.501** | **7.301.521** | **7.301.721** |
| 60 | 30 | 0.16 | 50 | 22 | **7.301.502** | **7.301.522** | **7.301.722** |
| 65 | 33 | 0.17 | 75 | 28 | **7.301.503** | **7.301.523** | **7.301.723** |
| 70 | 35 | 0.18 | 90 | 32 | **7.301.504** | **7.301.524** | **7.301.724** |
| 75 | 38 | 0.20 | 130 | 40 | **7.301.505** | **7.301.525** | **7.301.725** |
| 80 | 40 | 0.20 | 150 | 48 | **7.301.506** | **7.301.526** | **7.301.726** |
| 90 | 45 | 0.22 | 200 | 65 | **7.301.507** | **7.301.527** | **7.301.727** |
| 100 | 50 | 0.25 | 250 | 90 | **7.301.508** | **7.301.528** | **7.301.728** |
| 110 | 55 | 0.28 | 325 | 125 | **7.301.509** | **7.301.529** | **7.301.729** |
| 120 | 60 | 0.28 | 400 | 150 | **7.301.510** | **7.301.530** | **7.301.730** |
| 130 | 65 | 0.28 | 500 | 175 | **7.301.511** | **7.301.531** | **7.301.731** |



**Evaporating-dishes,** cylindrical form with reinforced rim, made of platinum

***Cristallisoirs,*** *forme cylindrique à bord renforcé, en platine*

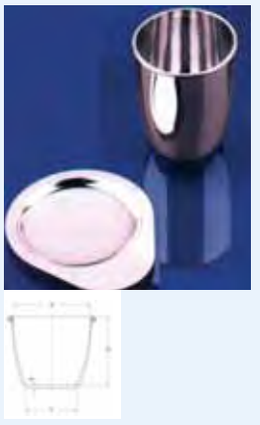
| Outer Ø<br>*Ø ext.*<br>(D) mm | Height<br>*Hauteur*<br>(H) mm | Base<br>*Fond*<br>(s) mm | Capacity<br>*Capacité*<br>ml | Weight<br>*Poids*<br>g | with spout<br>*avec bec* | without spout<br>*sans bec* | Lid<br>*Couvercle* |
|---|---|---|---|---|---|---|---|
| 40 | 20 | 0.15 | 20 | 12 | **7.301.550** | **7.301.570** | - |
| 50 | 25 | 0.16 | 35 | 17 | **7.301.551** | **7.301.571** | **7.301.721** |
| 60 | 30 | 0.16 | 50 | 26 | **7.301.552** | **7.301.572** | **7.301.722** |
| 65 | 33 | 0.17 | 75 | 33 | **7.301.553** | **7.301.573** | **7.301.723** |
| 70 | 35 | 0.18 | 90 | 37 | **7.301.554** | **7.301.574** | **7.301.724** |
| 75 | 38 | 0.20 | 130 | 45 | **7.301.555** | **7.301.575** | **7.301.725** |
| 80 | 40 | 0.20 | 150 | 55 | **7.301.556** | **7.301.576** | **7.301.726** |
| 90 | 45 | 0.22 | 200 | 72 | **7.301.557** | **7.301.577** | **7.301.727** |
| 100 | 50 | 0.25 | 250 | 95 | **7.301.558** | **7.301.578** | **7.301.728** |
| 110 | 55 | 0.28 | 325 | 131 | **7.301.559** | **7.301.579** | **7.301.729** |
| 120 | 60 | 0.28 | 400 | 158 | **7.301.560** | **7.301.580** | **7.301.730** |
| 130 | 65 | 0.28 | 500 | 183 | **7.301.561** | **7.301.581** | **7.301.731** |



**Boat,** made of platinum

***Nacelle,*** *en platine*

| Length<br>*Longueur*<br>(L1) mm | Length<br>*Longueur*<br>(L2) mm | Width<br>*Largeur*<br>(B) mm | Height<br>*Hauteur*<br>(H) mm | Base<br>*Fond*<br>(s) mm | Weight<br>*Poids*<br>g | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 15 | 6 | 4 | 4 | 0.10 | 0.5 | **7.301.590** |



**Crucibles,** low form with reinforced rim, made of platinum

***Creusets,*** *forme basse à bord renforcé, en platine*

| Outer Ø<br>*Ø ext.*<br>(Y) mm | Outer Ø<br>*Ø ext.*<br>(X) mm | Height<br>*Hauteur*<br>(H) mm | Base<br>*Fond*<br>(s) mm | Capacity<br>*Capacité*<br>ml | Weight<br>*Poids*<br>g | Crucible<br>*Creuset* | Lid<br>*Couvercle* |
|---|---|---|---|---|---|---|---|
| 6 | 26 | 20 | 0.20 | 5 | 5 | **7.301.600** | **7.301.700** |
| 18 | 28 | 23 | 0.20 | 8 | 6 | **7.301.601** | **7.301.701** |
| 18 | 29 | 24 | 0.30 | 10 | 10 | **7.301.602** | **7.301.702** |
| 18 | 30 | 25 | 0.30 | 12 | 11 | **7.301.603** | **7.301.703** |
| 19 | 32 | 27 | 0.30 | 15 | 13 | **7.301.604** | **7.301.704** |
| 22 | 34 | 30 | 0.34 | 20 | 19 | **7.301.605** | **7.301.705** |
| 22 | 36 | 32 | 0.34 | 25 | 22 | **7.301.606** | **7.301.706** |
| 22 | 38 | 34 | 0.34 | 30 | 27 | **7.301.607** | **7.301.707** |
| 25 | 45 | 40 | 0.34 | 40 | 34 | **7.301.608** | **7.301.708** |
| 30 | 50 | 42 | 0.34 | 50 | 38 | **7.301.609** | **7.301.709** |
| 36 | 55 | 45 | 0.37 | 75 | 58 | **7.301.610** | **7.301.710** |
| 40 | 62 | 48 | 0.40 | 100 | 72 | **7.301.611** | **7.301.711** |

**Crucibles,** low form, made of platinum

***Creusets,*** *forme basse, en platine*

| Outer Ø<br>*Ø ext.*<br>(Y) mm | Outer Ø<br>*Ø ext.*<br>(X) mm | Height<br>*Hauteur*<br>(H) mm | Base<br>*Fond*<br>(s) mm | Capacity<br>*Capacité*<br>ml | Weight<br>*Poids*<br>g | Crucible<br>*Creuset* | Cover<br>*Couvercle* |
|---|---|---|---|---|---|---|---|
| 16 | 26 | 20 | 0.20 | 5 | 4 | **7.301.620** | **7.301.700** |
| 18 | 28 | 23 | 0.20 | 8 | 5 | **7.301.621** | **7.301.701** |
| 18 | 29 | 24 | 0.30 | 10 | 8 | **7.301.622** | **7.301.702** |
| 18 | 30 | 25 | 0.30 | 12 | 10 | **7.301.623** | **7.301.703** |
| 19 | 32 | 27 | 0.30 | 15 | 12 | **7.301.624** | **7.301.704** |
| 22 | 34 | 30 | 0.34 | 20 | 18 | **7.301.625** | **7.301.705** |
| 22 | 36 | 32 | 0.34 | 25 | 21 | **7.301.626** | **7.301.706** |
| 22 | 38 | 34 | 0.34 | 30 | 25 | **7.301.627** | **7.301.707** |
| 25 | 45 | 40 | 0.34 | 40 | 30 | **7.301.628** | **7.301.708** |
| 30 | 50 | 42 | 0.34 | 50 | 36 | **7.301.629** | **7.301.709** |
| 36 | 55 | 45 | 0.37 | 75 | 56 | **7.301.630** | **7.301.710** |
| 40 | 62 | 48 | 0.40 | 100 | 70 | **7.301.631** | **7.301.711** |





**Crucibles,** high form, made of platinum

***Creusets,*** *forme haute, en platine*

| Outer Ø<br>*Ø ext.*<br>(Y) mm | Outer Ø<br>*Ø ext.*<br>(X) mm | Height<br>*Hauteur*<br>(H) mm | Base<br>*Fond*<br>(s) mm | Capacity<br>*Capacité*<br>ml | Weight<br>*Poids*<br>g | Crucible<br>*Creuset* | Cover<br>*Couvercle* |
|---|---|---|---|---|---|---|---|
| 12 | 19 | 25 | 0.20 | 5 | 4 | **7.301.640** | **7.301.700** |
| 13 | 22 | 27 | 0.20 | 8 | 5 | **7.301.641** | **7.301.701** |
| 14 | 24 | 28 | 0.30 | 10 | 8 | **7.301.642** | **7.301.702** |
| 16 | 26 | 29 | 0.30 | 12 | 10 | **7.301.643** | **7.301.703** |
| 17 | 28 | 33 | 0.30 | 15 | 12 | **7.301.644** | **7.301.704** |
| 18 | 30 | 35 | 0.34 | 20 | 18 | **7.301.645** | **7.301.705** |
| 20 | 34 | 38 | 0.34 | 25 | 21 | **7.301.646** | **7.301.706** |
| 22 | 36 | 40 | 0.34 | 30 | 25 | **7.301.647** | **7.301.707** |
| 25 | 40 | 45 | 0.34 | 40 | 30 | **7.301.648** | **7.301.708** |
| 27 | 45 | 48 | 0.34 | 50 | 36 | **7.301.649** | **7.301.709** |
| 32 | 53 | 56 | 0.37 | 75 | 56 | **7.301.650** | **7.301.710** |
| 35 | 56 | 60 | 0.40 | 100 | 70 | **7.301.651** | **7.301.711** |





**Crucibles,** high form with reinforced rim, made of platinum

***Creusets,*** *forme haute à bord renforcé, en platine*

| Outer Ø<br>*Ø ext.*<br>(Y) mm | Outer Ø<br>*Ø ext.*<br>(X) mm | Height<br>*Hauteur*<br>(H) mm | Base<br>*Fond*<br>(s) mm | Capacity<br>*Capacité*<br>ml | Weight<br>*Poids*<br>g | Crucible<br>*Creuset* | Cover<br>*Couvercle* |
|---|---|---|---|---|---|---|---|
| 12 | 19 | 25 | 0.20 | 5 | 5 | **7.301.660** | **7.301.700** |
| 13 | 22 | 27 | 0.20 | 8 | 6 | **7.301.661** | **7.301.701** |
| 14 | 24 | 28 | 0.30 | 10 | 9 | **7.301.662** | **7.301.702** |
| 16 | 26 | 29 | 0.30 | 12 | 11 | **7.301.663** | **7.301.703** |
| 17 | 28 | 33 | 0.30 | 15 | 13 | **7.301.664** | **7.301.704** |
| 18 | 30 | 35 | 0.34 | 20 | 19 | **7.301.665** | **7.301.705** |
| 20 | 34 | 38 | 0.34 | 25 | 22 | **7.301.666** | **7.301.706** |
| 22 | 36 | 40 | 0.34 | 30 | 27 | **7.301.667** | **7.301.707** |
| 25 | 40 | 45 | 0.34 | 40 | 32 | **7.301.668** | **7.301.708** |
| 27 | 45 | 48 | 0.34 | 50 | 36 | **7.301.669** | **7.301.709** |
| 32 | 53 | 56 | 0.37 | 75 | 58 | **7.301.670** | **7.301.710** |
| 35 | 56 | 60 | 0.40 | 100 | 72 | **7.301.671** | **7.301.711** |





# Respirators

## *Protection respiratoire*



**7.302.000**

**Respirator,** made of fibers, disposable

***Masque de protection en fibres,*** *à usage unique, version simple, 3.2g*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 50 pieces | **7.302.000** |



**7.302.010**

**Masks, disposable,** made of Jose silk, white free of chlorine and acid, sterilized in a dispenser box

***Masques de protection,*** *à usage unique, en soie blanche exempt de chlore et d'acide, livrés stérilisés dans une boite*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 100 pieces | **7.302.010** |



**7.302.020**

**Respirators, disposable,** for protection against solid particles >5µm, made of paper with 2 rubber bands

***Masques de protection en papier,*** *à usage unique, contre les particules solides > 5µm, avec 2 élastiqes*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 12 pieces | **7.302.020** |



**7.302.03***

**Respirators 3M,** with cool down valve, for protection against fine solid and liquid particles

***Masques de protection 3M,*** *avec vanne d'aération, contre les particules fines solides et liquides*

**FFP1**: protection against: silicate of sodium, calcium carbonate, graphite, cellulose, dusts of textile, metals, aluminium, zink, titane, kaolin etc...

*protection contre: silicate de sodium, carbonate de calcium, graphite, cellulose, poussières textile, métaux ferreux, aluminium, zinc, titane, kaloin ...*

**FFP2**: protection against: vapours and fumes, dusts of metals e.g stainless steel, copper, aluminium, carbons, quartz, sulfur, wood, silica, glasswool....

*protection contre: vapeurs et fumées, poussières de métaux tels que acier inox, cuivre, aluminium, charbons, quartz, soufre, bois, silice, laine de verre ...*

**FFP3**: protection against: dusts, fumes and middle radioactive particules, fumes of copper, iron, zink, mangane, lead, barium, chrome, arsenic, cotton, cobalt, uranium, vanadium and pharmaceutical lab particules

*protection contre: les poussières, fumées et particules moyennement radioactives, Fumées de métaux lourds, coton brut, particules en laboratoire pharmaceutique ....*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| EN 149 FFP1 solid aerosols<br>*particules fines légèrement toxiques (VME> 5 mg/m3)* | 20 | **7.302.030** |
| EN 149 FFP2 SL deficiency poison dust and water-based aerosols<br>*Particules moyennement toxiques (VME 1 > 1mg/m3)* | 10 | **7.302.031** |
| EN 149 FFP3 SL high poison dust and water-based aerosols, size: small - middle<br>*Particules très toxiques (VME < 1 mg/m3). Petite taille* | 10 | **7.302.032** |
| EN 149 FFP3 SL high poison dust and water-based aerosols, size: middle - large<br>*Particules très toxiques (VME < 1 mg/m3). Taille moyenne* | 10 | **7.302.033** |

**Mask, full face protection acc. to EN 136,** with polycarbonate window, for use with interchangeable screw-on filters acc. to EN 148.1

***Masque de protection intégrale, selon EN 136,*** *avec vitre en polycarbonate, pour usage de cartouches filtrantes interchangeables à visser*

| | | |
|---|---|---|
| **A2 - P2**: | protection against: | gases, organic vapors and particules |
| | *protection contre:* | *les gaz, vapeurs organiques et particules* |
| **B2 - P2**: | protection against: | gases, inorganic vapors and particules |
| | *protection contre:* | *les gaz, vapeurs inorganiques et particules* |
| **E2 - P2**: | protection against: | gases, acid vapors and particules |
| | *protection contre:* | *les gaz, vapeurs acides et particules* |
| **A2-B2-E2-K1-P2**: | protection against: | gases, organic and inorganic vapors, ammonia and particules |
| | *protection contre:* | *les gaz, vapeurs organiques et inorganiques, ammoniac et particules* |
| **A2 - P3**: | protection against: | gases, organic vapors and particules |
| | *protection contre:* | *les gaz, vapeurs organiques et particules* |
| **A2-B2-P3**: | protection against: | gases, organic vapors and particules |
| | *protection contre:* | *les gaz, vapeurs organiques et particules* |
| **A2-B2-E2-K1-P3**: | protection against: | gases, organic and inorganic vapors, ammonia and particules |
| | *protection contre:* | *les gaz, vapeurs organiques et inorganiques, ammoniac et particules* |
| **A2-B2-E2-K2-P3**: | protection against: | gases, organic and inorganic vapors, ammonia and particules |
| | *protection contre:* | *les gaz, vapeurs organiques et inorganiques, ammoniac et particules* |
| **A2-B2-E2-K2-Hg-P3**: | protection against: | gases, organic and inorganic vapors, ammonia, mercury and particules |
| | *protection contre:* | *les gaz, vapeurs organiques et inorganiques, ammoniac, mercure et particules* |

| | Order No.<br>*N° de code* |
|---|---|
| Full face mask, without filter/ *Masque de protection, sans filtre* | **7.302.040** |
| **Accessories /** *Accesoires* | |
| Filter of protection class A2 - P2<br>*Filtre de protection A2-P2* | **7.302.041** |
| Filter of protection class B2 - P2<br>*Filtre de protection B2-P2* | **7.302.042** |
| Filter of protection class E2 - P2<br>*Filtre de protection E2-P2* | **7.302.043** |
| Filter of protection class A2-B2-E2-K1-P2<br>*Filtre de protection A2-B2-E2-K1-P2* | **7.302.044** |
| Filter of protection class A2-P3<br>*Filtre de protection A2-P3* | **7.302.045** |
| Filter of protection class A2-B2-P3<br>*Filtre de protection A2-B2-P3* | **7.302.046** |
| Filter of protection class A2-B2-E2-K1-P3<br>*Filtre de protection A2-B2-E2-K1-P3* | **7.302.047** |
| Filter of protection class A2-B2-E2-K2-P3<br>*Filtre de protection A2-B2-E2-K2-P3* | **7.302.048** |
| Filter of protection class A2-B2-E2-K2-Hg-P3<br>*Filtre de protection A2-B2-E2-K2-Hg-P3* | **7.302.049** |
| Spare front shield made of PC, 145 x 108 x 0.3 mm pack of 10 pcs.<br>*Ecran de rechange en PC, 145 x 108 x 0.3 mm, paquet de 10* | **7.302.050** |
| Respirator cleaner, pack of 5 pcs<br>*Paquet de 5 nettoyeurs* | **7.302.055** |



**7.302.04***



**7.302.06***

**Half-mask,** for protection against gas, vapours and dust particles, acc. to EN 405

***Demi-masque de protection*** *contre les vapeurs, gaz et particules de poussière selon EN 405*

| | Order No. / *N° de code* |
|---|---|
| EN 405 FFABE1 P2L protection against organic vapour, inorganic & acid gases and particles<br>*Filtre de protection selon EN 405 FFABE1/P2SL contre les vapeurs organiques et inorganiques, vapeurs d'acides et particules* | **7.302.060** |
| EN 405 FFA1 P1 protection against organic vapours and particles<br>*Filtre de protection selon EN 405 FFA1SL contre les vapeurs organiques et les particules* | **7.302.061** |
| EN 405 FFA2 P2 protection against organic vapors and gases<br>*Filtre de protection selon EN 405 FFA2 P2 contre les vapeurs organiques et gaz* | **7.302.062** |



**7.302.08***

**Respirator, half mask,** two-stage filter, the mask have been tested in accordance with EN 140. A facepiece must be combined with 2 filters.

***Demi-masque de protection*** *à filtres à 2-étages selon EN 140. Deux filtres sont nécessaires. Livré sans filtres*

| | Order No. / *N° de code* |
|---|---|
| Respirator, without filters / *Demi-masque sans filtres* | **7.302.070** |
| **Accessories /** *Accesoires*<br>Filters, acc. to EN 141 and EN 143, 2 pcs./pack<br>*Filtres pour demi-masque, en paquet de 2, selon EN 141 et EN143* | |
| Protection class A1 / *Classe de protection A1* | **7.302.071** |
| Protection class K1 / *Classe de protection K1* | **7.302.072** |
| Protection class B1E1 / *Classe de protection B1E1* | **7.302.073** |
| Protection class A1B1E1 / *Classe de protection A1B1E1* | **7.302.074** |
| Protection class A1B1E1K1 / *Classe de protection A1B1E1K1* | **7.302.075** |
| Protection class A1P1 / *Classe de protection A1P1* | **7.302.076** |
| Protection class B1E1P3 / *Classe de protection B1E1P3* | **7.302.077** |
| Protection class A1P3 / *Classe de protection A1P3* | **7.302.078** |
| Protection class K1P3 / *Classe de protection K1P3* | **7.302.079** |
| Protection class P2 / *Classe de protection P2* | **7.302.080** |
| Protection class P3 / *Classe de protection P3* | **7.302.081** |
| Prefilters P1 / *Préfiltres P1* | **7.302.085** |



**7.302.09***

**Half masks** for use with 2 filters

***Demi-masques de protection*** *à 2 filtres,*

| | Order No. / *N° de code* |
|---|---|
| Respirator, small, without filters / *Taille petite, sans filtres* | **7.302.090** |
| Respirator, middle, without filters / *Taille moyenne, sans filtres* | **7.302.091** |
| Respirator, large, without filters / *Taille grande, sans filtres* | **7.302.092** |
| **Accessories /** *Accesoires*<br>Filters, acc. to EN 141 and EN 143, 2 pcs./pack<br>*Filtres pour demi-masque, en paquet de 2, selon EN 141 et EN143* | |
| Fine dusts, protection class P2 SL, standard pack of 2<br>*Classe de protection P2SL contre les poussières fines, paquet standard de 2* | **7.302.095** |
| Fine dusts, acid gas and vapours, protection class P3, standard pack of 2<br>*Classe de protection P3 contres les poussières fines, gaz et vapeurs d'acides paquet standard de 2* | **7.302.096** |
| Organic vapours <1000 ppm, protection class A 1, standard pack of 2<br>*Classe de protection A1 contre les vapeurs organiques <1000ppm paquet standard de 2* | **7.302.097** |
| Ammonia gas <1000 ppm, protection class K 1, standard pack of 2<br>*Classe de protection K1 contre l'ammoniac <1000ppm, paquet standard de 2* | **7.302.098** |
| Organic and inorganic vapours and acid gases <1000 ppm, protection class ABE 1, standard pack of 2<br>*Classe de protection ABE1 contre les vapeurs organiques et inorganiques y compris gaz d'acides <1000ppm, paquet standard de 2* | **7.302.099** |

## Hearing
## *Protection auditive*

**Ear muffs,** robust model with universal headpiece and comfortable. Very good sound absorption approx . 29 dB/L, acc. to EN 352.1 (The colour could be not the same as shown on the picture and could be change)

***Casque anti-bruit,*** *universel selon EN 352.1, confortable. Très bonne absorption du bruit env. 29 dB/L (la couleur pourrait ne pas être la même que sur la photo et pourrait changer)*

| | Order No. / *N° de code* |
|---|---|
| | 7.302.100 |



7.302.100

**Ear plugs,** made of soft, sound-absorbing (approx. 28 dB) polymer foam, acc. to EN 352-2, packed in sets of 5 pairs. Standard pack of 250 pieces

***Bouchons auditifs anti-bruit (env. 28 dB)*** *en mousse de polymère selon EN 352.2, en jeu de 5 paires. Conditionnement standard 250 pièces*

| | Order No. / *N° de code* |
|---|---|
| | 7.302.110 |



7.302.110

## Eyes protection
## *Protection oculaire*

**Full faceshield,** made of polycarbonate, acc. to EN 166

***Protecteur de visage intégral,*** *en polycarbonate, selon la classe EN 166*

| | Order No. / *N° de code* |
|---|---|
| with clear transparent faceshield / *avec écran en PC clair transparent* | 7.302.200 |
| with green transparent faceshield, protection 2 *avec écran en PC verre clair transarent, protection 2* | 7.302.201 |



7.302.20*

**Full faceshield,** made of polycarbonate with excellent potection also against UV raidations, acc. to EN 166 and EN170

***Protecteur de visage intégrale,*** *en polycarbonate avec une excellente protection aussi contre les radiations UV, selon les classes EN 166 et EN 170*

| | Order No. / *N° de code* |
|---|---|
| | 7.302.210 |



7.302.210

**Panoramic safety google,** made of PVC with anti-fog coating and adjustable elastic headband, acc. to EN 166

***Lunettes de protection panoramique*** *à effet antibuée en PVC souple avec serre-tête élastique réglable, selon EN 166*

| | Order No. / *N° de code* |
|---|---|
| | 7.302.220 |



7.302.220

**Googles,** an advanced safety goggle which offers exceptional panoramic vision and comfort to the wearer. It will fit comfortably over most styles of prescription spectacles. Protection acc. to DIN 58211/2,3,4

***Lunettes de protection panoramique*** *pouvant aussi être ulisées sur des lunettes de vue, avec serre-tête élastique réglable, selon DIN 58211/2,3,4*

| | Order No. / *N° de code* |
|---|---|
| | 7.302.230 |



7.302.230

**Panoramic goggles,** made of clear polycarbonate acc. to EN 166, comfortable, also suitable for wearing over spectacles

***Lunettes de protection panoramique,*** *en polycarbonate transparent selon EN 166, confortable et pouvant être utilisée sur des lunettes de vue*

| | Order No. / *N° de code* |
|---|---|
| | 7.302.240 |



7.302.240

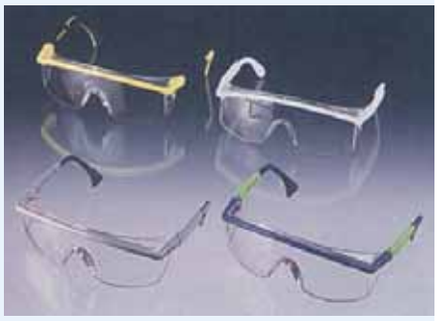


**7.302.250**

**UV-Googles with an absorbance up to 99,9%,** made of green polycarbonate, UV-resistant 3-1.7 with protection acc. to EN 166 and EN170

***Lunettes de protection teintées vertes,*** *contre les rayonnements ultra-violets avec une absorbance de 99.9% selon classe 3-1.7 et selon EN 166 et EN 170*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.302.250** |



**7.302.26***

**Goggles,** super lightweight with lateral vision and modern design. Frame made of polyamide, four-stage length-adjustable sides and exchangeable lens made of treated polycarbonate with 3-stage inclination. UV protection 2-1.2 acc. to EN 166-168 and EN170-172

***Lunettes de protection*** *très légères et modernes à vision latérale. cadre en polyamide à parties latérales réglables et verres interchangeables en polycarbonate traités à 3 positions d'inclinaison. Protection UV 2-1.2 selon EN 166-168 et EN170-172*

| | Order No.<br>*N° de code* |
|---|---|
| Grey frame / *cadre gris* | **7.302.260** |
| Yellow/black frame / *cadre jaune/noir* | **7.302.261** |
| Blue frame / *cadre bleu* | **7.302.262** |
| Purple/green frame / *cadre violet/vert* | **7.302.263** |
| **Spare parts /** *Pièces de rechange* | |
| Spare glass lens (PC) / *Verres de rechange (PC)* | **7.302.265** |



**7.302.27***

**Goggles, panoramic,** for use on spectacles, with UV protection 2-1.2 acc. to EN 166

***Lunettes de protection spécialement concue*** *pour les porteurs de lunettes, avec protection UV 2-1.2 selon EN 166*

| | Order No.<br>*N° de code* |
|---|---|
| Eyeshields colorless / *Version à cadre transparent* | **7.302.270** |
| Eyeshields with blue frame / *Version à cadre bleu* | **7.302.271** |

## Emergency showers & eye baths
## *Laveurs & douches oculaires*



**7.302.300**

**Eyewasher,** wall mounted, with dripping dish 250 mm diameter, eyefontains made of chrome plated brass with pressure reducing valve producing a wide and soft waterjet

***Station de lavage oculaire,*** *pour montage mural avec bassin de 250 mm de diamètre et fontaine en laiton chromé avec vanne de réduction de pression produisant un jet fort ou doux*

| | Order No.<br>*N° de code* |
|---|---|
| Eyewasher with dish made of stainless steel<br>*Version avec bassin en acier inox* | **7.302.300** |
| Eyewasher with dish made of plastic<br>*Version avec bassin en plastique* | **7.302.301** |



**7.302.310**

**Compact eye wash station**
for connection to existing water outlets 1/2", with integrated ballcock for regulating the jet, supplied with one shower head (nozzle)

***Station de rincage oculaire compacte,*** *pour montage sur robinetterie d'eau existante de 1/2", équipée d'un robinet à bille réglant le jet et livré avec une tête de rincage*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.302.310** |

**Eye-wash empty bottle,** capacity 620 ml, with eye-cup, snap-on lid and drain tube, designed for quick and easy flushing of eyes

***Rince-oeil,*** *flacon vide de capacité 620 ml pour rincage direct de l'oeil*

| | Order No.<br>*N° de code* |
|---|---|
| | 7.302.320 |

**Accessories /** *Accesoires*

| | |
|---|---|
| Wall support for eye-wah bottle, made of PE-coated wire steel<br>*Support mural pour flacon rince-oeil, en fil d'acier à revêtement en plastique* | 7.302.325 |



7.302.320

**Eye wash bottles,** with funnel, supplied full with sterile filling in sealed condition for approx. 2 years

***Rince-oeil,*** *avec entonnoir en flacons remplis avec une solution stérile et étanche pour durée de stockage de 2 ans*

| Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|
| 175 | 7.302.330 |
| 620 | 7.302.331 |

**Accessories /** *Accesoires*

| | |
|---|---|
| Wall support for eye-wah bottle, made of PE-coated wire steel<br>*Support mural pour flacon rince-oeil, en fil d'acier à revêtement en plastique* | 7.302.325 |



7.302.33*

## Gloves
## *Gants de protection*

**Gloves,** made of latex very thin, non-sterile, micro-roughened surface, length 240 mm acc.to EN 455. Dispenser box of 100 pieces for use on right or left hand

***Gants en Latex trés mince,*** *à usage unique non stérile, surface microstructurée, longueur 240 mm, selon EN 455, en paquet En boite de 100 pour main droite ou main gauche*

| Size<br>*Taille* | Powder-free<br>*Non-poudrés* | Powdered<br>*Poudrés* |
|---|---|---|
| 6.5 | 7.302.400 | 7.302.405 |
| 7.5 | 7.302.401 | 7.302.406 |
| 8.5 | 7.302.402 | 7.302.407 |
| 9.5 | 7.302.403 | 7.302.408 |



7.302.4**

**Gloves made of special latex,** sealed surface, powder-free for use on right or left hand, CE-category I, in dispenser box of 50 pieces

***Gants à usage unique en latex non stérile,*** *non poudrés, pour main droite ou main gauche, catégorie I (CE), en boite standard de 50*

| Size<br>*Taille* | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6.5 | | 7.302.410 |
| 7.5 | | 7.302.411 |
| 8.5 | | 7.302.412 |



7.302.41*

**Gloves,** made from vynil, length 310 mm, supplied in standard pack of 12 pairs

***Gants en vynil,*** *longueur 310 mm, livrés en paquet de 12 paires*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 7 | 7.302.420 |
| 8 | 7.302.421 |
| 9 | 7.302.422 |
| 10 | 7.302.423 |



7.302.42*



7.302.43*

**Gloves made of latex,** sterile and powder-free, medical type, CE-category IIa, pack of 1 pair

***Gants en latex stérile,*** *type médical non-poudré, catégorie IIa (CE), en paquet de 1 paire*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 5.0 - 6.5 | **7.302.430** |
| 7.0 - 8.0 | **7.302.431** |



7.302.44*

**Latex disposal gloves, CE cat. LII, complex risks, CE0248**
- slightly powderes: perfect fit, micro brushed surface, excellent comfort and safe grip
- powder-free: avoids skin irritation, good gripping surface, innovative inner layer for excellent comfort

***Gants en latex à usage unique,*** *CE cat. LII, CE0248, poudrés ou non poudrés, à surface brossée, excellent confort*

| Size<br>*Taille* | Standard pack<br>*Conditionnement*<br>pcs. | Powder-free<br>*Non-poudrés* | Powdered<br>*Poudrés* |
|---|---|---|---|
| S | 100 | **7.302.440** | **7.302.445** |
| M | 100 | **7.302.441** | **7.302.446** |
| L | 100 | **7.302.442** | **7.302.447** |
| XL | 100 | **7.302.443** | **7.302.448** |



7.302.45*

**Vinyl disposal gloves, CE Cat. L minor risks**
- minimalized allergic reactions, free of latex proteins and accellerators
- very kind to the skin, excellent comfort

***Gants en vinyl à usage unique,*** *CE cat. L, poudrés ou non poudrés, très agréable sur la peau et excellent confort*

| Size<br>*Taille* | Standard pack<br>*Conditionnement*<br>pcs. | Powder-free<br>*Non-poudrés* | Powdered<br>*Poudrés* |
|---|---|---|---|
| S | 100 | **7.302.450** | **7.302.455** |
| M | 100 | **7.302.451** | **7.302.456** |
| L | 100 | **7.302.452** | **7.302.457** |
| XL | 100 | **7.302.453** | **7.302.458** |



7.302.46*

**Disposable nitrile gloves,** interior powdered or powder-free, light blue. Boxes of 100 pieces

***Gants en nitrile à usage unique,*** *poudrés ou non-poudrés, à surface brossée, légers bleus. Boite de 100 pièces*

| Size<br>*Taille* | Standard pack<br>*Conditionnement*<br>pcs. | Powder-free<br>*Non-poudrés* | Powdered<br>*Poudrés* |
|---|---|---|---|
| 5.0 - 6.5 | 100 | **7.302.460** | **7.302.465** |
| 7.0 - 8.0 | 100 | **7.302.461** | **7.302.466** |
| 8.5 - 9.5 | 100 | **7.302.462** | **7.302.467** |
| 10.0 - 11.0 | 100 | **7.302.463** | **7.302.468** |



7.302.47*

**Gloves made of latex,** with cotton velour on the inside, structured for wet rip, length 300 mm, CE-category II, pack of 10 pairs

***Gants en latex*** *avec revêtement intérieur en velour et surface structurée, longueur 300 mm, catégorie II (CE), en paquet standard de 10 paires*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 7 | **7.302.470** |
| 8 | **7.302.471** |
| 9 | **7.302.472** |
| 10 | **7.302.473** |

**Gloves, made of latex,** with structured surface, velourised, temperature resistant -40/+90°C, length 310 mm, acc. to EN 420, EN 388 and EN 374 part 1-3. Standard pack of 10 pairs

***Gants en Latex,*** *avec surface profilisée, intérieur en velour, résistant à la température de -40/+ 90°C, longueur 310 mm, selon EN 420, EN 388 et EN 374 part 1-3. En paquet standard de 10 paires*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 7 | **7.302.480** |
| 8 | **7.302.481** |
| 9 | **7.302.482** |
| 10 | **7.302.483** |



**7.302.48***

**Chemical gloves,** made from polychloroprene black, category III, length 310 mm, veloured, resistant to many chemical substances such as acids, lyes, organic oils and greases and to bacteriological contamination acc. to EN 420, EN 388 et EN 374 part 1-3. Standard pack of 1 pair

***Gants en polychloroprène,*** *à surface profilisée, intérieur en velour, longueur 310 mm, résistant très bien aux acides dilués ou semi-concentrés, sels saturés, glycol, glycerine etc.. selon EN 420, EN 388 et EN 374 part 1-3. En paquet standard de 1 paire*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 7.0 - 7.5 | **7.302.490** |
| 8.0 - 8.5 | **7.302.491** |
| 9.0 - 9.5 | **7.302.492** |
| 10.0 - 10.5 | **7.302.493** |



**7.302.49***

**Nitrile-gloves,** far-reaching cut- and puncture-stop, silicone-free, antibacterial. High resistance against chemicals, oil, grease, solutions and gasoline. Temperature resistant -20°C to +130°C, acc. to EN 420, EN 388 and EN 374 part 1-3

***Gants en Nitrile*** *à haute résistance chimique et thermique de -20°C/+ 130°C, selon EN 420, EN 388 et EN 374 part 1-3*

| Size<br>*Taille* | Length<br>*Longueur*<br>mm | Standard pack<br>*Conditionnement* | Order No.<br>*N° de code* |
|---|---|---|---|
| 7 | 400 | 2 pairs | **7.302.500** |
| 8 | 400 | 2 pairs | **7.302.501** |
| 9 | 400 | 2 pairs | **7.302.502** |
| 10 | 400 | 2 pairs | **7.302.503** |
| 11 | 400 | 2 pairs | **7.302.504** |
| 8 | 600 | 1 pair | **7.302.505** |
| 9 | 600 | 1 pair | **7.302.506** |
| 10 | 600 | 1 pair | **7.302.507** |
| 11 | 600 | 1 pair | **7.302.508** |



**7.302.50***

**Gloves, made from nitrile,** disposable, non-powdering, light blue. Standard box of 100 pieces for use on right or left hand

***Gants, en nitrile,*** *à usage unique pour main droite ou main gauche, bleu clair. En paquet de 100 pièces*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 5.5 - 6.5 | **7.302.510** |
| 7.0 - 8.0 | **7.302.511** |
| 8.5 - 9.5 | **7.302.512** |
| 10.0 - 11.0 | **7.302.513** |



**7.302.51***

**Butyl rubber gloves,** acc. to EN 420, EN 388 and EN 374 part 1-3, for use in the chemical industry (paints, varnishes, adhesives and plastic production), temperature resistant -40°C to +130°C, length 350 mm, resistant against short chain ester, ketone and aldehyde, diluted and concentrated acid and lye, organic acid, sated hydro-chloric solution, alcohol and softening agents, thickness 0.7 mm, standard pack of 1 pair

***Gants en Butyle*** *selon EN 420, EN 388 et EN 374 part 1-3, à haute résistance chimique et thermique de -40/+ 130°C, longueur 350 mm, épaisseur 0.7 mm. Paquet de 1 paire*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 8 | **7.302.520** |
| 9 | **7.302.521** |
| 10 | **7.302.522** |
| 11.0 | **7.302.523** |



**7.302.52***



**7.302.53***

**Chemical gloves,** made from Viton, category III, length 350 mm, resistant to many very strong chemicals and acids, temperature 0+230°C, acc. to EN 420, EN 388 et EN 374 part 1-3. Standard pack of 1 pair

***Gants en Viton,*** *longueur 310 mm, résistant très bien aux produits chimiques aggressifs, aux acides dilués ou concetrés, selon EN 420, EN 388 et EN 374 part 1-3. En paquet standard de 1paire*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 9 | **7.302.530** |
| 10 | **7.302.531** |
| 11 | **7.302.532** |



**7.302.54***

**Gloves disposable,** made of polyethylene foil (PE), in dispenser box of 100 pieces

***Gants à usage unique,*** *en feuille de polyéthylène (PE), en boite distributrice de 100*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| Large for men / *Pour homme* | **7.302.540** |
| Small for women / *Pour femme* | **7.302.541** |



**7.302.55***

**Gloves disposable,** made of polyethylene foil (PE), in dispenser box of 100 pieces

***Gants à usage unique,*** *en feuille de polyéthylène (PE), en boite distributrice de 100*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| Large for men 530 mm / *Pour homme 530 mm* | **7.302.550** |
| Small for women 340 mm / *Pour femme 340 mm* | **7.302.551** |



**7.302.56***

**Glove, heat protector,** a safe and convenient method of handling hot or cooled laboratory ware. Manufactured from strong tear resistant silicone rubber, temperature resistance - 57 °C to + 250 °C. Multible concave tipped for non-slip grip, one size, standard pack of 1 pieces

***Protecteurs thermiques,*** *en silicone, convient pour la manipulation froide ou chaude, température - 57 °C à + 250 °C*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| Hand 170 x 86 mm/ *Mouffe* | **7.302.560** |
| Finger 137 x 30 mm / *Doigtier* | **7.302.561** |



**7.302.57***

**NOMEX, heat resistant gloves**
Feutré-quality, acc. to EN 420, EN 388 and prEN702, asbestos-free, resistance against flames and heat, universal size 10 1/2, standard pack of 1 pair

***Gants anti-chaleur,*** *en fibres de polyamide Nomex, feutrés selon EN 420, EN 388 et prEN 702, exempt d'amiante, résistant aux flammes et à la chaleur. Taille universelle de 10,5 vendus par paire.*

| Size<br>*Taille* | Length<br>*Longueur*<br>mm | Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|---|---|
| 10.5 | 270 | Feutré | **7.302.570** |
| 10.5 | 350 | Feutré | **7.302.571** |
| 10.5 | 400 | Feutré | **7.302.572** |



**7.302.58***

**NOMEX, heat resistant gloves,** longlife and best form stability, rough knitted Bouclé-quality, raised inside. The fine knitted Jersey-quality suitable for fineworks. Washable at max. +95°C, acc. to EN 420, EN 388 and prEN702, standard pack of 1 pair

***Gants anti-chaleur,*** ***e****n fibres de polyamide Nomex, en matière bouclée ou en jersey selon EN 420, EN 388 et prEN 702, exempt d'amiante, résistant aux flammes et à la chaleur. Lavable jusqu'à 95 °C. Vendus par paire*

| Size<br>*Taille* | Length<br>*Longueur*<br>mm | Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|---|---|
| 6.5 | 230 | Bouclé | **7.302.580** |
| 7.0 | 230 | Bouclé | **7.302.581** |
| 7.5 | 230 | Bouclé | **7.302.582** |
| 6.5 | 400 | Bouclé | **7.302.583** |
| 7.0 | 400 | Bouclé | **7.302.584** |
| 7.5 | 400 | Bouclé | **7.302.585** |
| 6.5 | 260 | Jersey | **7.302.590** |
| 7.0 | 260 | Jersey | **7.302.591** |
| 7.5 | 260 | Jersey | **7.302.592** |
| 6.5 | 350 | Jersey | **7.302.593** |
| 7.0 | 350 | Jersey | **7.302.594** |
| 7.5 | 350 | Jersey | **7.302.595** |

**Heat resistant gloves,** made of silicate based yarn. Resistant to contact heat/cold - 73 °C to + 650 °C, standard pack of 1 pair

***Gants anti-chaleur,*** *en fibres de silice sur fils, à haute résistance thermique de - 73 °C à + 650 °C. Vendus la paire*

| Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 280 | **7.302.600** |
| 355 | **7.302.601** |
| 580 | **7.302.602** |



**7.302.60***

**CRYO - Gloves,** withstands temperatures from -160°C to +150°C. The gloves provide warmth, flexibility and dexterity without bulk and are resistant to most solvents and chemicals. For using with the vapour phase of cryogenic liquids and liquefied natural gas, dry ice, ultra low temperature freezers and autoclaves, standard pack of 1 pair

***Gants cryogéniques,*** *pour travaux de - 160 °C à + 150 °C, utilisés pour liquides cryogéniques, glace carbonique et congélateurs. Autoclavables, vendus la paire*

| Size<br>*Taille* | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 8.0 - 8.5 | 300 mm | **7.302.610** |
| 9.0 - 9.5 | 300 mm | **7.302.611** |
| 10.0 - 10.5 | 300 mm | **7.302.612** |
| 8.0 - 8.5 | 360 mm | **7.302.615** |
| 9.0 - 9.5 | 360 mm | **7.302.616** |
| 10.0 - 10.5 | 360 mm | **7.302.617** |
| 11.0 - 11.5 | 360 mm | **7.302.618** |
| 9.0 - 9.5 | 500 mm | **7.302.620** |
| 10.0 - 10.5 | 500 mm | **7.302.621** |
| 11.0 - 11.5 | 500 mm | **7.302.622** |
| 9.0 - 9.5 | 700 mm | **7.302.625** |
| 10.0 - 10.5 | 700 mm | **7.302.626** |
| 11.0 - 11.5 | 700 mm | **7.302.627** |



**7.302.61***
**7.302.62***

**Gloves,** withstands temperatures max. - 20 °C, made of PVC with cotton inside, the gloves are manufactured for working in cooled environment. Standard pack of 1 pair

***Gants en PVC*** *à haute isolation du froid, jusqu'à -20°C, intérieur cotonné, pour travaux dans les chambres froides etc.. Vendus la paire*

| Size<br>*Taille* | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 9 | 300 mm | **7.302.630** |
| 10 | 300 mm | **7.302.631** |



**7.302.63***

**Cut resistant gloves,** made of 100% KEVLAR, liquid resistant, fine knitted quality with elastic wrist, acc. to EN 420, EN 388. Length 250 mm. Standard pack of 1 pair

***Gants anti-blessure,*** *100 % en Kevlar tricoté pour protection contre les coupures de verre, métal etc..., selon EN 420, EN 388. Longueur 250 mm. Vendus la paire*

| Size<br>*Taille* | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 7 | 250 mm | **7.302.640** |
| 8 | 250 mm | **7.302.641** |
| 9 | 250 mm | **7.302.642** |
| 10 | 250 mm | **7.302.643** |



**7.302.64***

## Protective clothing
## *Vêtements de protection*

**Laboratory coats acc. to prEN 13034,** white, chemical resistant made of 100 % polyester fibers of Novacid Plus, washable up to 95 °C, with pressure buttons and pockets. Weight approx. 240 g/m²

***Blouses de chimie*** *selon prEN 13034, 100% en polyester à fibres Novacid, résistantes aux acides et lavables jusqu'à 95°C, pour hommes et femmes avec col à revers, boutonnière couverte avec boutons à pression, poche supérieure à bouton à pression, poche intérieure à droite en haut et 2 poches sur les côtés. Poids 240g/m²*

| Size<br>*Taille* | | Order No.<br>*N° de code* |
|---|---|---|
| 38 | women / *femme* | **7.302.700** |
| 40 | women / *femme* | **7.302.701** |
| 42 | women / *femme* | **7.302.702** |
| 44 | women / *femme* | **7.302.703** |
| 46 | women / *femme* | **7.302.704** |
| 46 | men / *homme* | **7.302.710** |
| 48 | men / *homme* | **7.302.711** |
| 50 | men / *homme* | **7.302.712** |
| 52 | men / *homme* | **7.302.713** |
| 54 | men / *homme* | **7.302.714** |
| 56 | men / *homme* | **7.302.715** |



**Laboratory coats**
100% cotton, white, with 2 side and one top pockets

***Blouses de laboratoire,*** *100% en coton blanc et lavables, pour hommes et femmes avec 3 poches extérieures*

| Size<br>*Taille* | | Order No.<br>*N° de code* |
|---|---|---|
| 38 | women / *femme* | **7.302.720** |
| 40 | women / *femme* | **7.302.721** |
| 42 | women / *femme* | **7.302.722** |
| 44 | women / *femme* | **7.302.723** |
| 46 | women / *femme* | **7.302.724** |
| 46 | men / *homme* | **7.302.730** |
| 48 | men / *homme* | **7.302.731** |
| 50 | men / *homme* | **7.302.732** |
| 52 | men / *homme* | **7.302.733** |
| 54 | men / *homme* | **7.302.734** |
| 56 | men / *homme* | **7.302.735** |



**7.302.74***

**Cryo aprons,** temperature range from - 160 °C to + 150 °C, made of semiporous nylon material on both sides. Feature a 100% waterproof liner that prevents spilled fluid and cold equipment from comming in contact with the torso. Adjustable plastic fasteners at waist and neck snap easily into place. Aprons are machine washable/dryable and static-free

***Tabliers cryogéniques*** *en nylon semi-poreux résistant à l'eau et au froid. Lavables et séchables Pour températures de -160°C/+ 150°C. Avec attaches réglables*

| Length<br>*Longueur*<br>cm | Order No.<br>*N° de code* |
|---|---|
| 91.5 | **7.302.740** |
| 107 | **7.302.741** |



**7.302.75***

**Laboratory aprons,** made of a strong, both side rubbered fabric, light and sturdy

***Tabliers de laboratoire*** *en vinyle résistante*

| Width<br>*Largeur*<br>cm | Length<br>*Longueur*<br>cm | Order No.<br>*N° de code* |
|---|---|---|
| 90 | 110 | **7.302.750** |
| 90 | 120 | **7.302.751** |

**Aprons, disposable,** made of white PE foil, ideal for dirty, wet and staining jobs. In individual bags. Standard pack of 100 pieces

***Tabliers de protection à usage unique*** *en feuille de polyéthylène, idéal pour les travaux en laboratoire, en paquet de 100*

| Width<br>*Largeur*<br>cm | Length<br>*Longueur*<br>cm | Order No.<br>*N° de code* |
|---|---|---|
| 80 | 125 | **7.302.760** |
| 80 | 150 | **7.302.761** |
| 80 | 170 | **7.302.762** |



**7.302.76***

**Caps, for hair protection,** made of plastic foil white. Pack of 100 pieces

***Coiffe de protection,*** *en feuille de plastique blanche. Paquet standard de 100*

| Order No.<br>*N° de code* |
|---|
| **7.302.770** |


**7.302.770**

**Overshoes,** disposable, with rubber tie, made of blue plastic foil, 35 cm. Pack of 100 pieces

***Protecteurs de chaussures,*** *en feuille de plastique bleue structurée. 35 cm. Paquet standard de 100*

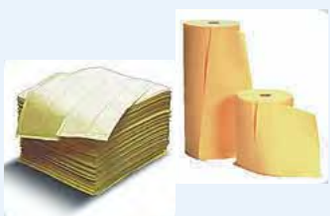
| Order No.<br>*N° de code* |
|---|
| **7.302.780** |


**7.302.780**

**Absorbents,** as sheets or rolls
Special to absorb corrosive chemicals, acids, solvents etc...

***Absorbants*** *en plaques ou en rouleaux Spécifiques pour absorber les produits chimiques aggressifs, Acides, solvants etc...*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Pack of 200 standard sheets 40 x 46 cm | **7.302.800** |
| *Paquet de 200 plaques de 40 x 46 cm, type standard* | |
| Pack of 100 extra thick sheets 40 x 46 cm | **7.302.801** |
| *Paquet de 200 plaques de 40 x 46 cm, extra épais* | |
| Roll of 90 m x 80 cm width, standard type | **7.302.802** |
| *Rouleau de 90 m x 80 cm, type standard* | |
| Roll of 45 m x 40 cm width, extra thick | **7.302.803** |
| *Rouleau de 45 m x 40 cm, extra épais* | |


**7.302.80***

**Universal absorbers**
Usefull to absorb corrosive liquids, organic and inorganic acids and other chemicals

***Absorbants universels***
*Utile pour absorber les liquids corrosives, inflammables, organiques et inorganiques etc...*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| Bottle of 800 g / *Flacon de 800 g* | **7.302.810** |
| Can of 25 kg / *Bidon de 25 kg* | **7.302.811** |


**7.302.81***

**Safety absorbents station**
Holder made of aluminium lacquered 530 x 300 x 220 mm (w x h x d) supplied with 3 absorbents, set of disposable gloves, plastic bags, scoop and brush

***Station d'absorbants de sécurité***
*Avec portoir mural en aluminium lacqué de 530 x 300 x 220 mm livré avec 3 absorbants, lot de gants de protection à usage unique, sachets en plastiqes, pelle et brosse*

| Order No.<br>*N° de code* |
|---|
| **7.302.820** |


**7.302.820**

**Mercury-Absorber Set**
For the fast and easy absorbance of mercury, supplied with 100g Hg-absorbant, gloves, brush, scoop, Pasteur pipettes and vessel

***Kit absorbant de mercure,*** *livré avec accessoires de prélèvement*

| Order No.<br>*N° de code* |
|---|
| **7.302.830** |


**7.302.830**



7.302.900

**Safety shields,** made of acrylic glass, for safety in the laboratory, good stability and thick wall

***Ecrans de protection,*** *en verre acrylique, pour le laboratoire. Construction robuste, stabile et à paroie épaisse*

| Dimensions<br>*Dimensions*<br>(W x H) mm | Thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 900 x 680 | 10 | **7.302.900** |
| 630 x 550 | 8 | **7.302.901** |



7.302.910

**Safety shields,** for body protection, availabe in U-shape, inclined at 15° or curved, usefull for a protection of 3 sides. Made of 10 mm thick acrylic glass

***Ecrans de protection,*** *en verre acrylique épais de 10 mm disponibles en forme de U, inclinée à 15° ou courbe*

| Dimensions<br>*Dimensions* | Form | Order No.<br>*N° de code* |
|---|---|---|
| (H x W) mm | | |
| 600 x 350 | 15 ° | **7.302.910** |
| 600 x 350 | Curved | **7.302.911** |
| (H x D x W) mm | | |
| 340 x 190 x 450 | U | **7.302.915** |
| 450 x 250 x 600 | U | **7.302.916** |
| 500 x 270 x 600 | U | **7.302.917** |



7.302.920

**Safety-box,** made of 10 mm thick acrylic glass with lid, for the storage or transport of vials. Supplied without rack

***Boite de sécurité,*** *en verre acrylique de 10 mm, avec couvercle escamotable, mais sans portoir*

| Dimensions<br>*Dimensions*<br>(W x D x H) mm | Order No.<br>*N° de code* |
|---|---|
| 168 x 95 x 55 | **7.302.920** |



7.302.930

**Safety waste bins,** made of 10 mm acrylic glass, with lid suitable for contamination materials

***Poubelles de sécurité,*** *en verre acrylique de 10 mm, avec couvercle escamotable, pour les matériaux contaminés*

| Dimensions<br>*Dimensions*<br>(W x D x H) mm | Order No.<br>*N° de code* |
|---|---|
| 80 x 80 x 130 | **7.302.930** |
| 200 x 200 x 300 | **7.302.931** |
| 250 x 250 x 350 | **7.302.932** |
| 300 x 300 x 400 | **7.302.933** |

**Standard Electrodes pH 0 - 14,** supplied with 1 metre of cable and a BNC or DIN plug as standard (Please specify)

***Electrodes standard de pH 0 - 14,*** *livrées avec câble de 1 m avec fiche BNC ou DIN (Veuillez spécifier)*

| **Description** *Description* | **Type** *Type* | **Dimension** *Dimension* L x Ø mm | **Stem** *Tige* L x Ø mm | **T °C** | **Ref.** *Réf.* | **Order No.** *N° de code* |
|---|---|---|---|---|---|---|
| Glass pH (requires separate reference) *Electrode de pH en verre (nécessite une électrode de référence séparée)* | A | 120 x 12 | - | 0 - 80 | - | **7.310.000** |
| Glass combination for liquids *Electrode combinée en verre univerelle* | B | 120 x 12 | - | 0 - 80 | Ag/Cl | **7.310.001** |
| Glass long reach micro combination *Electrode combinée longue type micro* | C | - | 150 x 6 | 0 - 80 | Ag/Cl | **7.310.002** |
| Glass semi - micro combination *Electrode combinée en verre semi - micro* | D | - | 90 x 4.5 | 0 - 80 | Ag/Cl | **7.310.003** |
| Epoxy bodied combination *Electrode combinée en époxy* | E | 120 x 12 | - | 0 - 60 | Ag/Cl | **7.310.004** |
| Glass combination for low conductivity water *Electrode combinée en verre pour eau à basse conductivité* | B | 120 x 12 | - | 0 - 50 | Hg/Cl | **7.310.005** |
| Glass combination for Tris buffers *Electrode combinée en verre pour les tampons Tris* | D | - | 90 x 6 | 0 - 50 | Hg/Cl | **7.310.006** |
| Epoxy flat head combination *Electrode combinée plate en époxy* | F | 120 x 12 | - | 0 - 80 | Ag/Cl | **7.310.007** |
| Glass spear combination for slurries *Electrode combinée à pointe en verre* | E | 120 x 12 | - | 0 - 80 | Ag/Cl | **7.310.008** |
| Glass spear combination for semi-solids *Electrode combinée pointue en verre pour semi-liquides* | H | - | 40 x 6 | 0 - 80 | Ag/Cl | **7.310.009** |
| Glass pH combination with integral ATC *Electrode combinée en verre avec sonde de température integrée* | S | 120 x 12 | - | 0 - 100 | Ag/Cl | **7.310.010** |
| Glass combination ground glass sleeve junction *Electrode combinée en verre avec rodage, pour échantillons difficiles* | I | 120 x 12 | - | 0 - 80 | Ag/Cl | **7.310.011** |


**7.310.000**


**7.310.001**


**7.310.002**


**7.310.003**


**7.310.004**


**7.310.005**


**7.310.006**


**7.310.007**


**7.310.008**


**7.310.009**


**7.310.010**


**7.310.011**

**Standard Electrodes pH 0 - 14,** supplied with 1 metre of cable and a BNC or DIN plug as standard (Please specify)

***Electrodes standard de pH 0 - 14,*** *livrées avec câble de 1 m avec fiche BNC ou DIN (Veuillez spécifier)*



**7.310.020**



**7.310.022**



**7.310.023**



**7.310.024**



**7.310.025**



**7.310.026**



**7.310.027**



**7.310.028**



**7.310.029**



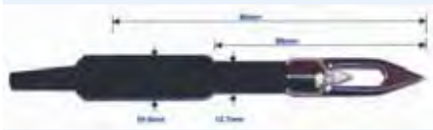
**7.310.030**

| Description<br>*Description* | Stem<br>*Tige*<br>L x Ø mm | pH | T °C | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Glass pH (requires separate reference) for general purpose<br>*Electrode de pH en verre pour travaux de routine (nécessite l'utilisation d'une électrode de référence)* | 120 x 12 | 0 - 14 | 0 - 100 | **7.310.020** |
| Glass combination for liquids annular, for general purpose<br>*Electrode combinée en verre pour travaux de routine* | 120 x 12 | 0 - 14 | 0 - 100 | **7.310.021** |
| Glass combination for liquids annular, for general purpose<br>*Electrode combinée en verre pour travaux de routine* | 120 x 12 | 0 - 14 | 0 - 100 | **7.310.022** |
| Glass long reach micro combination for measurements in flasks<br>*Electrode combinée en verre longue type micro pour mesure dans les fioles ou autres récipients similaires* | 150 x 6 | 0 - 14 | 0 - 100 | **7.310.023** |
| Glass semi-micro combination, for small volumes<br>*Electrode combinée emi-micro en verre pour petits volumes* | 90 x 4.5 | 0 - 14 | 0 - 100 | **7.310.024** |
| Glass combination for low conductivity water<br>*Electrode combinée en verre pour eau à basse conductivité* | 120 x 12 | 0 - 14 | 0 - 100 | **7.310.025** |
| Epoxy flat head combination, for measurements of flat surfaces<br>*Electrode combinée á tête plate pour mesure de surface planes* | 120 x 12 | 0 - 14 | 0 - 90 | **7.310.026** |
| Glass spear combination for slurries, for soils and slurries<br>*Electrode combinée en verre, avec pointe pour mesure dans les sols etc...* | 120 x 12 | 0 - 14 | 0 - 100 | **7.310.027** |
| Glass spear combination for semi-solids, for meat and cheeses<br>*Electrode de pénétration combinée en verre pour semi-solides, viandes et fromages* | 40 x 6 | 0 - 14 | 0 - 100 | **7.310.028** |
| Epoxy combination for jam and fruit, preserves. Replaceable ceramic junction and single junction AgCl. Supplied with BNC and 1 m cable<br>*Electrode combinée en epoxy pour conserves de confitures et de fruits. Raccord en céramique interchangeable et remplissage KCL AgCl. Livrée avec fiche BNC et câble de 1 m* | 120 x 12 | 0 - 13 | 0 - 80 | **7.310.029** |
| Glass combination ground glass sleeve junction, for colloids and slurries<br>*Electrode combinée en verre à rodage, pour échantillons difficiles: saumures, corps gras...* | 120 x 12 | 0 - 14 | 0 - 100 | **7.310.030** |

**Knife probe measuring pH electrode,** stainless steel tip with protected pH electrode, specific for meat measurements, supplied with 1 meter of cable and a BNC or DIN plug as standard

***Electrode à lame pour mesure du pH,*** *avec embout en acier inoxydable à protection de l'électrode de mesure, spécifique pour les mesures de la viande, livrée avec câble de 1 m avec fiche BNC ou DIN (à spécifier)*

| Description<br>*Description* | Stem<br>*Tige*<br>L x Ø mm | pH | T °C | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Knife kit with probe<br>*Electrode à lame* | 120 x 12 | 0 - 14 | 0 - 80 | **7.310.040** |
| **Spare parts /** *Pièces de rechange* | | | | |
| Replacement probe for knife kit<br>*Lame de remplacement* | | | | **7.310.041** |



**7.310.040**

**Reference Electrode,** supplied with 1 metre of cable and a 2 mm plug as standard

***Electrode de référence,*** *livrée avec câble fixe de 1 m et fiche de 2 mm*

| Description<br>*Description* | Stem<br>*Tige*<br>L x Ø mm | pH | T °C | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Glass reference, specific for use with 7.302.000 and ISE electrodes<br>*Electrode de référence pour utilisation avec électrode de pH ou électrode ionique* | 120 x 12 | - | 0 - 100 | **7.310.050** |



**7.310.050**

**Reference Electrodes,** supplied with 1 metre of cable and a 2 mm plug as standard

***Electrodes de référence,*** *livrées avec câble fixe de 1 m et fiche de 2 mm*

| Description<br>*Description* | Dimension<br>*Dimension*<br>L x Ø mm | T °C | Ref. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Calomel (Hg/Cl) glass reference R1<br>*Electrode de référence (Hg/Cl) au calomel en verre* | 120 x 12 | 0 - 50 | Hg/Cl | **7.310.060** |
| Calomel (Ag/Cl) glass reference R1/AgCl<br>*Electrode de référence (Ag/Cl) au calomel* | 120 x 12 | - | Ag/Cl | **7.310.061** |
| Calomel (Ag/Cl) double junction reference R2<br>*Electrode de référence (Ag/Cl) au calomel à double jonction* | 120 x 12 | 0 - 50 | Ag/Cl | **7.310.062** |
| Epoxy bodied (Ag/Cl) reference R4 teflon junction<br>*Electrode de référence en époxy à raccord en téflon* | 120 x 12 | 0 - 100 | Ag/Cl | **7.310.064** |



**7.310.060**



**7.310.062**

**Metal Electrodes,** supplied with 1 metre of cable and a 2 mm plug as standard

***Electrodes de métal,*** *livrées avec câble fixe de 1 m et fiche de 2 mm*

| Description<br>*Description* | Dimension<br>*Dimension*<br>L x Ø mm | T °C | Ref. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| General purpose platinum ORP combination supplied with 1 m of cable and a BNC or DIN plug as standard<br>*Electrode combinée de platine universelle, livrée avec câble fixe de 1 m et fiche BNC ou DIN* | 120 x 12 | 0 - 80 | Ag/Cl | **7.310.070** |
| Double platinum elecrode for Karl Fischer titrations, supplied with 1 m of cable and 2 x 4 mm plugs as standard<br>*Electrode double de platine pour titrages Karl Fischer, livrée avec câble de 1 m et 2 fiches de 4 mm* | 120 x 12 | 0 - 80 | - | **7.310.071** |
| General purpose platinum ORP for general applications supplied with 1 m of cable and a BNC or DIN plug as standard (requires a separate reference electrode)<br>*Electrode de platine universelle, livrée avec câble de 1 m et fiche BNC ou DIN (nécessite l'utilisation d'une electrode de référence séparée)* | 120 x 12 | 0 - 80 | - | **7.310.072** |



**7.310.071**



**7.310.072**



**7.310.080**



**7.310.081**



**7.310.082**



**7.310.083**



**7.310.084**



**7.310.1****

**Conductivity cells,**
dimensions 120 x 12 mm, temperature range 0 - 50 °C, supplied with 1 metre of cable. (Also available on request with built-in ATC (please add "ATC" behind the Code No.) When ordering conductivity cells, please specify make and model of conductivity meter

***Cellules de mesure de la conductivité,***
*dimensions 120 x 12 mm, échelle de température 0 - 50 °C, livrées avec 1 m de câble. Disponibles sur demande avec capteur de température ATC intégré (Veuillez rajouter au No. de Code « ATC »). A la commande, veuillez svp indiquer la marque et le type de votre conductimètre*

| Description<br>*Description* | Material plate<br>*Plaque* | Type<br>*Type* | Range<br>*Echelle* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Glass bodied (K = 1) for general applications<br>*Cellule en verre (C = 1) universelle* | Pt | P | 0-150 mS/cm | **7.310.080** |
| Epoxy bodied (K = 1), glass free for paints, inks, foodstuffs, etc...<br>*Cellule en époxy (C = 1) exempt de verre pour peintures, encres, aliments etc...* | Carbon | Q | 0-10 mS/cm | **7.310.081** |
| Epoxy bodied (K = 0.1), for pure water<br>*Cellule en époxy (C = 0.1) pour eau pure* | Carbon | Q | 0-500 µS/cm | **7.310.082** |
| Epoxy bodied (K = 10), solutions with high conductivity<br>*Cellule en époxy (C = 10) pour solutions à haute conductivité* | Carbon | Q | 0-10 mS/cm | **7.310.083** |
| Epoxy bodied (K = 0.55), aqueous / non aqueous<br>*Cellule en époxy (C = 0.55) pour solutions aqueuses et non-aqueuses* | Carbon | Q | 0-10 mS/cm | **7.310.084** |
| Glass flow through cell (K = 1)<br>*Cellule à circulation en verre (C = 1)* | Pt | R | 0-150 mS/cm | **7.310.085** |
| Glass bodied (K = 0.1) pure water<br>*Cellule en verre (C = 0.1) pour eau pure* | Pt | P | 0-500 µS/cm | **7.310.086** |

**Combination Ion Selective Electrodes (ISE),** can be used with any conventional laboratory or hand held pH meter with a millivolt display mode. Please specify the connector required or model of your ionmeter. No reference electrode needed and no filling solution, fully submersible and waterproof

***Electrodes ioniques combinées,*** *utilisables sur tout type de ionomètre de laboratoire ou portable avec un affichage en millivolts. Veuillez préciser à la commande le modèle de votre ionomètre et la fiche nécessaire. Ne nécessite pas d'électrode de référence ni de remplissage, immersion totale étanche à l'eau*

| Ion | Range<br>*Echelle*<br>mol/l | Range<br>*Echelle*<br>ppm | Range<br>*Echelle*<br>pH | Solution ISAB | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| Ammonium ($NH_4^+$) | $5 \times 10^{-1}$ - $5 \times 10^{-5}$ | 9000 - 0.09 | 1 - 8.6 | $CH_3COOH$ | **7.310.100** |
| Barium ($BA^{2+}$) | $10^{-1}$ - $10^{-5}$ | 1.4 - 13,700 | 3 - 10 | $CuSO_4$ | **7.310.101** |
| Bromide ($Br^-$) | $10^0$ - $5 \times 10^{-5}$ | 0.4 - 80,000 | 1 - 12 | 5M $KNO_3$ | **7.310.102** |
| Cadmium ($Cd^{2+}$) | $10^{-1}$ - $1 \times 10^{-5}$ | 0.1 - 11,200 | 3 - 7 | 5M $KNO_3$ | **7.310.103** |
| Calcium ($Ca^{2+}$) | $10^{-1}$ - $5 \times 10^{-7}$ | 4,010 - 0.02 | 3.5 - 11 | KCl | **7.310.104** |
| Chloride ($Cl^-$) | $10^0$ - $3 \times 10^{-6}$ | 35,500 - 1 | 1 - 12 | 5M $KNO_3$ | **7.310.105** |
| Copper ($Cu^{2+}$) | $10^0$ - $1 \times 10^{-7}$ | 0.008 - 84,000 | 2 - 7 | 5M $KNO_3$ | **7.310.106** |
| Cyanide ($Cn^-$) | $10^{-2}$ - $1 \times 10^{-5}$ | 0.03 - 260 | 11 - 13 | 10M NaOH | **7.310.107** |
| Fluoride (F) | $10^{-1}$ - $1 \times 10^{-8}$ | 1,900 - 0.02 | 4 - 8 | TISAB | **7.310.108** |
| Iodide ($I^-$) | $10^{-0}$ - $5 \times 10^{-7}$ | 0.06 - 127,000 | 2 - 12 | 5M $KNO_3$ | **7.310.109** |
| Lead ($Pb^{2+}$) | $10^{-1}$ - $1 \times 10^{-5}$ | 0.2 - 20,800 | 3 - 7 | 5M NaClO | **7.310.110** |
| Nitrate ($NO_3^-$) | $10^0$ - $7 \times 10^{-6}$ | 62,000 - 0.4 | 2 - 11 | 4M $(NH_4)_2SO_4$ | **7.310.112** |
| Perchlorate ($ClO_4^-$) | $10^0$ - $2 \times 10^{-1}$ | 0.2 - 99,500 | 0 - 11 | $CH_3COONa$ | **7.310.113** |
| Potassium ($K^+$) | $10^0$ - $10^{-5}$ | 0.04 - 39,000 | 1 - 9 | 4M KCl | **7.310.114** |
| Silver ($Ag^+$) | $10^0$ - $1 \times 10^{-7}$ | 0.01 - 107,900 | 1 - 9 | 5M $KNO_3$ | **7.310.115** |
| Sodium ($Na^+$) | Sat - $10^{-6}$ | 1 ppb | 9 - 12 | SISAB | **7.310.116** |
| Sulphide ($S^{2-}$) | $10^0$ - $1 \times 10^{-7}$ | 0.003 - 32,000 | 13 - 14 | 10M NaOH | **7.310.117** |
| Thiocyanate ($SCN^-$) | $10^{-1}$ - $2 \times 10^{-6}$ | 1 - 5,800 | 2 - 12 | 5M $KNO_3$ | **7.310.118** |
| Water hardness<br>*Dureté de l'eau* | $2 \times 10^{-1}$ - $5 \times 10^{-5}$ | - | 4.5 - 10 | LiAC | **7.310.119** |

**Mono Ion Selective Electrodes (ISE),** can be used with any conventional laboratory or hand held pH meter with a millivolt display mode. Please specify the connector required or model of your ionmeter. To be used with a separate reference electrode, fully submersible and waterproof

***Electrodes ioniques simples,*** *utilisables sur tout type de ionomètre de laboratoire ou portable avec un affichage en millivolts. Veuillez préciser à la commande le model de votre ionomètre et la fiche nécessaire. Nécessite l'utilisation d'une électrode de référence séparée, immersion totale étanche à l'eau*

| Ion | Concentration range<br>*Echelle de concentration* | Recommended ref. electrode<br>*Electrode de référence recommandée* | Range<br>*Echelle*<br>pH | Solution ISAB | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| Ammonium ($NH_4^+$) | $10^{-1}$ - $10^{-6}$M | Double junction R2 | 5 - 8 | 4M LiAc | **7.310.130** |
| Barium ($BA^{2+}$) | 1M$^{-5}$ - $10^{-5}$M | Double junction R2 | 5 - 9 | 4M LiAc | **7.310.131** |
| Bromide ($Br^-$) | 1M$^{-5}$ - $10^{-6}$M | Double junction R2 | 2 - 12 | 5M $NaNO_3$ | **7.310.132** |
| Cadmium ($Cd^{2+}$)<br>(Can be used also to titrate sulphate with Ba $(No_3)_2$.) | $10^{-1}$ - 1 x $10^{-6}$M | Single junction R1 | 3 - 7 | 5M $NaNO_3$ | **7.310.133** |
| Calcium ($Ca^{2+}$) | $10^{-1}$ - 5 x $10^{-7}$ | Double junction R2 | 3.5 - 11 | 4M KCl | **7.310.134** |
| Chloride ($Cl^-$) | 1M$^{-5}$ - $10^{-5}$M | Double junction R2 | 1 - 12 | 5M $NaNO_3$ | **7.310.135** |
| Copper ($Cu^{2+}$) | 1M$^{-5}$ - $10^{-6}$M | Double junction R2 | 2 - 7 | 5M $NaNO_3$ | **7.310.136** |
| Cyanide ($Cn^-$) | $10^{-2}$ - $10^{-6}$M | Double junction R2 | 11 - 13 | 5M NaOH | **7.310.137** |
| Fluoride (F) | 1M$^{-5}$ - $10^{-7}$M | Single junction R1 | 4 - 8 | TISAB | **7.310.138** |
| Iodide ($I^-$)<br>(Can be used also for Mercury) | 1M - $10^{-6}$M | Double junction R2 | 2 - 12 | 5M $NaNO_3$ | **7.310.139** |
| Lead ($Pb^{2+}$) | $10^{-1}$ - 5 x $10^{-6}$M | Double junction R2 | 3 - 7 | 5M $KNO_3$ | **7.310.140** |
| Nitrate ($NO_3^-$) | 1M - 1 x $10^{-6}$M | Double junction R2 | 2 - 11 | 1M $KH_2PO_4$ | **7.310.141** |
| Potassium ($K^+$) | 1M - $10^{-6}$M | Double junction R2 | 1 - 9 | 1M Tetra-ethyl Amonium Cloride | **7.310.142** |
| Silver ($Ag^+$) | 1M - $10^{-7}$M | Double junction R2 | 1 - 9 | 5M $NaNO_3$ | **7.310.143** |
| Sodium ($Na^+$) | Sat - $10^{-6}$ | Double junction R2 | 9 - 12 | SISAB | **7.310.144** |
| Sulphide ($S^{2-}$) | 1M - $10^{-7}$M | Single junction R1 | 13 - 14 | SAOB | **7.310.145** |

**We can also supply equivalent electrodes. Conductivity cells, Temperature probes for the most suppliers e.g. Metrohm, WTW, Jenway, Consort, Denver, Hanna, Mettler Toledo, Orion, Radiometer, Schott etc... Please contact us**

***Nous pouvons aussi livrer des électrodes, cellules de conductivité, sondes de température, équivalentes à Metrohm, WTW, Jenway, Consort, Denver, Hanna, Mettler Toledo, Orion, Radiometer, Schott etc... Veuillez svp nous consulter***



**7.310.1****

## COMPARING DATA FOR « METROHM » ELECTRODES

## *TABLEAU COMPARATIF DES ELECTRODES « METROHM »*

| References | Order No.<br>*N° de code* |
|---|---|
| 6.0150.100 | **7.310.200** |
| 6.0204.110 | **7.310.201** |
| 6.0220.100 | **7.310.202** |
| 6.0226.100 | **7.310.203** |
| 6.0227.100 | **7.310.204** |
| 6.0228.000 | **7.310.205** |
| 6.0229.100 | **7.310.206** |
| 6.0234.100 | **7.310.207** |
| 6.0235.200 | **7.310.208** |
| 6.0239.100 | **7.310.209** |
| 6.0253.100 | **7.310.210** |
| 6.0253.120 | **7.310.211** |
| 6.0255.100 | **7.310.212** |
| 6.0255.110 | **7.310.213** |
| 6.0255.120 | **7.310.214** |
| 6.0257.000 | **7.310.215** |
| 6.0257.020 | **7.310.216** |
| 6.0258.000 | **7.310.217** |
| 6.0258.010 | **7.310.218** |
| 6.0259.100 | **7.310.219** |
| 6.0262.100 | **7.310.220** |
| 6.0301.100 | **7.310.221** |
| 6.0309.100 | **7.310.222** |





| Reference | Order No.<br>*N° de code* |
|---|---|
| 6.0338.100 Double Pt-wire electrode, Metrohm plug-in head G, for Karl Fischer titration. Indicator electrode for 684 and for 737 KF Coulometers and for 701 KF Titrino | **7.310.223** |
| 6.0340.000 Double Pt-wire electrode, for KF sample changer (2.674.0030, 2.760.0020), fixed cable with plug F | **7.310.224** |
| 6.0341.100 Double Pt-wire electrode (0.8 x 4 mm), SGJ, Metrohm plug-in head G, for Karl Fischer titration | **7.310.225** |
| 6.0350.100 | **7.310.226** |
| 6.0351.100 | **7.310.227** |
| 6.0352.100 | **7.310.228** |
| 6.0338.100 | **7.310.229** |
| 6.0340.000 | **7.310.230** |
| 6.0341.100 | **7.310.231** |
| 6.0430.100 | **7.310.232** |
| 6.0431.100 | **7.310.233** |
| 6.0433.110 | **7.310.234** |
| 6.0434.110 | **7.310.235** |
| 6.0435.110 | **7.310.236** |
| 6.0451.100 | **7.310.237** |
| 6.0450.100 | **7.310.238** |
| 6.0452.100 | **7.310.239** |
| 6.0726.100 | **7.310.240** |
| 6.0726.110 | **7.310.241** |
| 6.0726.117 | **7.310.242** |
| 6.0729.100 | **7.310.243** |
| 6.0729.108 | **7.310.244** |
| 6.0729.110 | **7.310.245** |
| 6.0729.118 | **7.310.246** |
| 6.0750.100 | **7.310.247** |
| 6.0914.010 | **7.310.248** |
| **Ion Selective Electrodes**<br>*Electrodes Ioniques Spécifiques* | |
| 6.0502.150 | **7.310.250** |
| 6.0502.120 | **7.310.251** |
| 6.0502.170 | **7.310.252** |
| 6.0502.140 | **7.310.253** |
| 6.0502.180 | **7.310.254** |
| 6.0502.130 | **7.310.255** |
| 6.0502.160 | **7.310.256** |
| 6.0502.100 | **7.310.257** |
| 6.0502.110 | **7.310.258** |
| 6.0504.100 | **7.310.259** |
| 6.0504.120 | **7.310.250** |
| 6.0504.110 | **7.310.261** |
| 6.0501.100 | **7.310.262** |
| 6.0506.010 | **7.310.263** |
| **Conductivity Cells**<br>*Cellules de conductivité* | |
| 6.0901.040 | **7.310.270** |
| 6.0901.260 | **7.310.271** |
| 6.0908.110 | **7.310.272** |
| 6.0910.120 | **7.310.273** |
| 6.0912.110 | **7.310.274** |
| **Temperature probes**<br>*Sondes de température* | |
| 6.1103.000 | **7.310.280** |
| 6.1103.040 | **7.310.281** |
| 6.1110.100 | **7.310.282** |
| 6.1110.110 | **7.310.283** |

## COMPARING DATA FOR « METTLER TOLEDO » ELECTRODES

*TABLEAU COMPARATIF DES ELECTRODES « METTLER TOLEDO »*

| References | Order No.<br>*N° de code* |
|---|---|
| INLAB Basics DIN | 7.310.400 |
| INLAB Basics BNC | 7.310.401 |
| INLAB Cool | 7.310.402 |
| INLAB Easy | 7.310.403 |
| INLAB Easy DIN | 7.310.404 |
| INLAB Easy BNC | 7.310.405 |
| INLAB Expert Pro | 7.310.406 |
| INLAB Expert NTC30 | 7.310.407 |
| INLAB Expert DIN | 7.310.408 |
| INLAB Expert PT1000 | 7.310.409 |
| INLAB Hydrofluoric | 7.310.410 |
| INLAB Mono | 7.310.411 |
| INLAB Mono Pro | 7.310.412 |
| INLAB Mono Bridge | 7.310.413 |
| INLAB Reach | 7.310.414 |
| INLAB Redox | 7.310.415 |
| INLAB Redox L | 7.310.416 |
| INLAB Redox Au | 7.310.417 |
| INLAB Redox Ag | 7.310.418 |
| INLAB Redox Micro | 7.310.419 |
| INLAB Redox Pro | 7.310.420 |
| INLAB Redox Pro | 7.310.421 |
| INLAB Reference | 7.310.422 |
| INLAB Reference Fluor | 7.310.423 |
| INLAB Reference Pro | 7.310.424 |
| INLAB Routine | 7.310.425 |
| INLAB Routine L | 7.310.426 |
| INLAB Routine Pro L | 7.310.427 |
| INLAB Science | 7.310.428 |
| INLAB Semi-Micro L | 7.310.429 |
| INLAB Semi-Micro | 7.310.430 |
| INLAB Solids | 7.310.431 |
| INLAB Surface | 7.310.432 |
| INLAB Versatile Pro | 7.310.433 |
| INLAB Versatile | 7.310.434 |
| INLAB 1010 | 7.310.435 |
| INLAB 1011 | 7.310.436 |
| LE438 | 7.310.437 |
| 373-PF-S7/120 | 7.310.438 |
| HA405-60-88G-S7/120 | 7.310.439 |
| HA405-60-M8-S7/400 | 7.310.440 |
| HA425-60-S7/60 | 7.310.441 |
| 404-T-S7/120 | 7.310.442 |
| Pt805-S7/120 | 7.310.443 |
| Au805-S7/120 | 7.310.444 |
| Ag805-S7/120 | 7.310.445 |
| Ag850-S7/120 | 7.310.446 |
| U402/S7 | 7.310.447 |
| 406M6-DXK-S7/125 | 7.310.448 |
| **Ion Selective Electrodes**<br>*Electrodes Ioniques Spécifiques* | |
| 152153000 | 7.310.138 |
| 152133000 | 7.310.135 |
| 152113000 | 7.310.132 |
| 152223000 | 7.310.141 |
| 152233000 | 7.310.130 |
| 152213000 | 7.310.142 |
| 152203000 | 7.310.134 |
| 102053064 | 7.310.144 |
| 152303000 | 7.310.380 |
| **Titrator Electrodes**<br>*Electrodes pour titreur* | |
| DM140-SC | 7.310.460 |
| DM141-SC | 7.310.461 |
| DM142-SC | 7.310.462 |
| DM143-SC | 7.310.463 |
| DG111-SC | 7.310.464 |
| DG113-SC | 7.310.465 |
| DG114-SC | 7.310.466 |





## COMPARING DATA FOR « WTW » ELECTRODES

### *TABLEAU COMPARATIF DES ELECTRODES « WTW »*

| **pH electrodes with gel electrolyte**<br>*Electrodes de pH à électrolyte de gel* | **Order No.**<br>***N° de code*** |
|---|---|
| SenTix 20 | **7.310.500** |
| SenTix 21 | **7.310.501** |
| SenTix 21-3 | **7.310.502** |
| SenTix 22 | **7.310.503** |
| SenTix 41 | **7.310.504** |
| SenTix 41-3 | **7.310.505** |
| SenTix 42 | **7.310.506** |
| SenTix 60 | **7.310.507** |
| SenTix 61 | **7.310.508** |
| SenTix 62 | **7.310.509** |
| SenTix 81 | **7.310.510** |
| SenTix 82 | **7.310.511** |
| SenTix 91 | **7.310.512** |
| SenTix 92 | **7.310.513** |
| SenTix pH | **7.310.514** |
| SenTix H | **7.310.515** |
| SenTix HW | **7.310.516** |
| SenTix SP | **7.310.517** |
| SenTix SUR | **7.310.518** |
| SenTix Mic | **7.310.519** |
| SenTix ORP | **7.310.520** |
| SenTix Ag | **7.310.521** |
| SenTix Au | **7.310.522** |
| SenTix PtR | **7.310.523** |
| **Reference Electrode**<br>*Electrode de référence* | |
| R 502 | **7.310.525** |
| **Connection cables for plug-Head electrodes**<br>*Câbles de raccordement pour électrodes à tête enfichables* | |
| AS/DIN | **7.310.535** |
| AS/DIN-3 | **7.310.536** |
| AS/BNC | **7.310.537** |
| **Conductivity cell**<br>*Cellules de conductivité* | |
| TetraCon-325 | **7.310.540** |
| TetraCon-325/S | **7.310.541** |
| LR325/01 | **7.310.542** |

**Others electrodes according to your requirements can be supplied. Please give us in your inquiry the Instrument type and trademark and the reference of your electrodes used**

***D'autres électrodes sont disponibles. Veuillez svp nous communiquer la marque et le type de l'instrument utilisé ainsi que la référence des électrodes et nous vous adresserons une offre équivalente à celles que vous recherchez***

**We supply a comprehensive range of pH buffers, conductivity standards, ISE standard calibration solutions, ionic strength adjustment buffers and various electrode filling, cleaning and storage solutions. For further product information, please contact us**

***Nous livrons des solutions tampons, des étalons de conductivité, des étalons ioniques de calibration, des solutions de remplissage et de stockage. Veuillez nous consulter***

**pH buffer capsules**
(supplied in packs of 50)

***Tampons de pH en capsules***
*(emballage de 50)*

| Description<br>*Description*<br>pH | Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| pH 4 | 100 | **7.310.600** |
| pH 7 | 100 | **7.310.601** |
| pH 9 | 100 | **7.310.602** |
| pH 10 | 100 | **7.310.603** |

**pH buffer solution**

***Tampons de pH en solution***

| Description<br>*Description*<br>pH | Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| pH 4 | 500 | **7.310.610** |
| pH 4 | 1000 | **7.310.611** |
| pH 4 | 5000 | **7.310.612** |
| pH 7 | 500 | **7.310.620** |
| pH 7 | 1000 | **7.310.621** |
| pH 7 | 5000 | **7.310.622** |
| pH 9 | 500 | **7.310.630** |
| pH 9 | 1000 | **7.310.631** |
| pH 9 | 5000 | **7.310.632** |
| pH 10 | 500 | **7.310.640** |
| pH 10 | 1000 | **7.310.641** |
| pH 10 | 5000 | **7.310.642** |



**Conductivity standards**

***Etalons de conductivité***

| Description<br>*Description* | Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| 1413 µS | 500 | **7.310.650** |
| 12.88 mS | 500 | **7.310.651** |
| 111.8 mS | 500 | **7.310.652** |

**Filling solutions for reference electrodes**

***Solutions de remplissage pour electrodes de référence***

| Description<br>*Description* | Volume<br>*Volume*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| LiAc | 100 | **7.310.660** |
| TEAC | 100 | **7.310.661** |
| LiCl | 100 | **7.310.662** |
| NH4Cl | 100 | **7.310.663** |
| KCl | 100 | **7.310.664** |
| KNO3 | 100 | **7.310.665** |
| NaNO3 | 100 | **7.310.666** |
| 3M KCl/AgCl | 100 | **7.310.667** |
| (NH4)2SO4 | 100 | **7.310.668** |



7.315.000

**SteriPlast Sampling Spatulas,** for powders, granulates and pastes, made of polystyrene (PS) white, with fixed handle. Sterile, individually packed

***Spatules d'échantillonnage SteriPlast,*** *type labo-verseuse pour poudres, granulés et pâtes, en polystyrène (PS) blanc stériles. Emballage individuel*

| Total length<br>*Longueur totale*<br>mm | Insertion length<br>*Longueur de pénétration*<br>mm | Packing<br>*Conditionnement*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 228 | 152 | 10 | **7.315.000** |



7.315.01*

**SteriPlast Sampling Spoons,** for powders, granulates, pastes and liquids, made of polystyrene (PS) white, sterile, individually packed

***Cuillères d'échantillonnage SteriPlast,*** *pour poudres, granulés, pâtes, en polystyrène (PS) blanc stériles. Emballage individuel*

| Total length<br>*Longueur totale*<br>mm | Packing<br>*Conditionnement*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 150 | 100 | **7.315.010** |
| 165 | 100 | **7.315.011** |



7.315.03*

**SteriPlast Sampling Spades,** with closing cover for powders, granulates and pastes, made of polystyrene (PS) white, sterile, individually packed

***Pelles d'échantillonnage SteriPlast,*** *avec couvercle de fermeture pour poudres, granulés et pâtes, en polystyrène (PS) blanc stériles. Emballage individuel*

| Total length<br>*Longueur totale*<br>mm | Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 178 | 60 | 10 | **7.315.030** |
| 190 | 125 | 10 | **7.315.031** |



7.315.040

**SteriPlast Sampling Tube,** with handle and sealing cover leakproof, for sterile direct sampling and analysis of liquids and powders, made of polypropylene (PP) blue, sterile, individually packed

***Tube d'échantillonnage SteriPlast,*** *avec anse et couvercle à fermeture étanche, pour prise stérile directe d'échantillons pour l'analys,e en polypropylène (PP) bleu, stériles. Emballage individuel*

| Dimensions<br>*Dimensions*<br>H x Ø mm | Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 80 x 45 | 100 | 130 | **7.315.040** |



7.276.05*

**SteriBag Sampling bags,** for different kinds of samples in chemistry, pharmaceuticals, medicine, vetenary science and foodstuffs, made of polyethylene (PE) transparent with labelling area, tearproof and leakproof, sterile

***Sachets d'échantillonnage SteriBag,*** *pour toutes sortes de produits en chimie, pharmacie, médecine, science vétérinaire et aliments, en polyéthylène (PE) transparent avec surface à écrire, stériles*

| Dimensions<br>*Dimensions*<br>W x L mm | Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 76 x 127 | 60 | 500 | **7.276.050** |
| 76 x 178 | 180 | 500 | **7.276.051** |
| 114 x 229 | 540 | 500 | **7.276.052** |
| 140 x 229 | 720 | 500 | **7.276.053** |
| 114 x 305 | 810 | 500 | **7.276.054** |
| 178 x 305 | 1650 | 500 | **7.276.055** |

**TeleScoop**
Water sampler with telescopic rod made of aluminium, length infinitely variable from 60 cm to 450 cm (see table). Two different scoops can be mounted on the telescopic rod (snap-in joint).
1. Angular beaker can be set in a wide variety of positions.
2. Bottle holder fits for for bottles up to max. 88 mm diameters for plastics and glass bottles supplied with universal fast-clamping belts and one sampling bottle 750 ml

***Echantillonneur d'eau***
*Avec manche télescopique en aluminium à longueur réglable de 60 à 450 cm (voir tableau), permettant de fixer deux types d'échantillonneur:*
*1) Pour bécher de 500, 1000 ou 2000 ml à positions réglables sur 90°*
*2) Pour flacon jusqu'à un diamètre max. de 88 mm équipé d'une attache et livré avec un flacon de 750 ml en plastique*

| **Length infinitely variable from** *Longueur variable* | **Capacity** *Capacité* **ml** | **Order No.** *N° de code* |
|---|---|---|
| **Telescopic rod made of aluminium** *Manche télescopique en aluminium* | | |
| 0.60 - 1.20 m | - | **7.315.050** |
| 1.25 - 2.50 m | - | **7.315.051** |
| 1.00 - 3.00 m | - | **7.315.052** |
| 1.65 - 4.50 m | - | **7.315.053** |
| **Angular beaker made of PP** *Bécher en PP* | | |
| - | 500 | **7.315.060** |
| - | 1000 | **7.315.061** |
| - | 2000 | **7.315.062** |
| **Bottle holder** *Porte-flacon* | | |
| - | 750- | **7.315.065** |


**7.315.050**


**7.315.060**


**7.315.065**

**Mini-Sampler Case PE**
For general sampling purposes. With the Mini-Sampler the sample liquid only comes in contact with the suction hose and the original sample bottle.
Supplied complete in a transport case including manually vacuum pump, set of 10 PE-bottles of 100 ml, 10 meters PE-suction tubing 6x8 mm, one tubing cutter, one stainless steel hose weight and 20 seal-it sample labels

***Mini-échantillonneur***
*A usage général pour des prélévements d'échantillons liquides. Kit livré dans une malette composée d'une pompe aspirante manuelle, d'un lot de 10 flacons en PE de 100 ml, 10 m de tuyau en PE 6x8mm, un coupe-tube, un poids en acier inoxydable pour tuyau et 20 étiquettes*

| | **Order No.** *N° de code* |
|---|---|
| Complete / *Complet* | **7.315.070** |
| **Accessories and spare parts /** *Accessoires et pièces de rechange* | |
| Sample bottle, PE, 100 ml / *Flacon en PE, 100 ml* | **7.315.080** |
| Sample bottle, PE, 250 ml / *Flacon en PE, 250 ml* | **7.315.081** |
| Sample bottle, PE, 500 ml / *Flacon en PE, 500 ml* | **7.315.082** |
| Sample bottle, PE, 1000 ml / *Flacon en PE, 1000 ml* | **7.315.083** |
| Suction hose, PE roll with 100 m / *Tuyau d'aspiration en PE, en rouleau de 100 m* | **7.315.084** |
| Label „Reference sample" (sheet with 24 labals) / *Lot de 24 étiquettes* | **7.315.085** |
| Mini-Sampler pump / *Mini-Pompe manuelle d'aspiration* | **7.315.086** |
| Hose cutter / *Coupe-tube* | **7.315.087** |


**7.315.070**

# SAMPLING
## *ECHANTILLONNAGE*



**7.315.1****
-
**7.315.11***

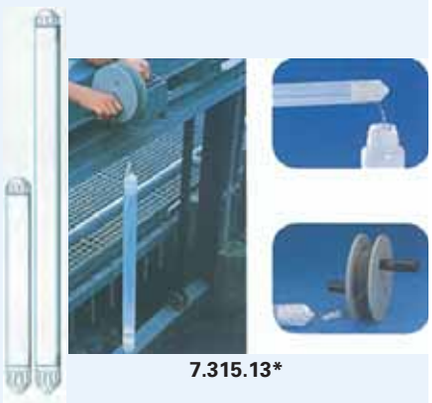
**Liquid-Samplers** made of ultra-pure and chemically inert PTFE/FEP or PP (with standard red coded push-button) for contamination-free sampling from open and closed barrels, vats, tanks, silos, open waters (ponds, streams, lakes, rivers). Fits all commercially available vats and barrels with opening diameters of at least 25 mm Ø. Colour coded push-buttons in red, blue, green, yellow, white and black, prevents mix-ups. All surfaces are free of pores and undercuts, preventing collection of dirt. Only round screw threads proven in foodstuffs hygiene are used. Disassembly and cleaning is extremely simple

***Tubes d'échantillonnage pour liquides*** *en PTFE/FEP ou en PP (avec code-couleur rouge en standard) ultra-pure et chimiquement inerte disponibles en longueur 100 ou 200 cm pour l'échantillonnage dans des fûts, réservoirs, canisters, silos, (y compris dans les eaux de rivière, de lac..) et ayant une ouverture max. de 25 mm. Bouchons d'identification à pression colorés en bleu, vert, jaune, blanc et noir évitant les mélanges. Démontage simple pour nettoyage*

| Materiel<br>*Matiére* | Length<br>*Longueur*<br>mm | Ø<br>mm | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de code* |
|---|---|---|---|---|
| PTFE/FEP | 60 | 25 | 150 | **7.315.100** |
| PTFE/FEP | 100 | 25 | 250 | **7.315.101** |
| PTFE/FEP | 200 | 25 | 500 | **7.315.102** |
| PP, transparent | 60 | 25 | 150 | **7.315.110** |
| PP, transparent | 100 | 25 | 250 | **7.315.111** |
| PP, transparent | 200 | 25 | 500 | **7.315.112** |

**Accessories /** *Accesoires*

| | |
|---|---|
| Colour coded push-buttons, set of 5 in yellow, green, blue, white and black<br>*Jeu de 5 bouchons code-couleur jaune, vert, bleu, blanc et noir* | **7.315.120** |
| Cleaning brush 100 cm / *Goupillon de 100 cm* | **7.315.121** |



**7.315.13***

**Aqua-Sampler** collects ground water samples from wells, pits and other sources. Fits all normal well shafts to 2" without tilting or getting stuck. The 2.3 mm thick cable, to which the Aqua-Sampler is attached and is lowered into the well, is made of 316 stainless steel and coated with Teflon FEP. A sturdy hand crank is recommended as an accessory to roll up the cable quickly and conveniently (please refer to accessories). Ultra-pure FEP/PTFE transparent

***Collecteur d'échantillon d'eau***
*Pour les eaux souterraines etc. permettant de pénétrer dans des orifices jusqu'à 5 cm de dia. Fabrication en matière ultra-pure FEP/PTFE transparent. Il est recommandé de sélectionner un enrouleur de câble et un câble approprié (voir accessoires)*

| Sampler capacity<br>*Cap. échantilloneur*<br>ml | Total length<br>*Longueur totale*<br>mm | Outside Ø<br>*Ø extérieur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 350 | 400 | 46 | **7.315.130** |
| 700 | 760 | 46 | **7.315.131** |
| 1050 | 1070 | 46 | **7.315.132** |

**Accessories and spare parts /** *Accessoires et pièces de rechange*

| | |
|---|---|
| Hand spool, without cable / *Enrouleur manuel, sans câble* | **7.315.140** |
| Wire cable, 10 m, st. steel/PTFE<br>*Câble en acier inox de 10 m avec revétement en PTFE* | **7.315.141** |
| Wire cable, 25 m, st. steel/PTFE<br>*Câble en acier inox de 25 m avec revétement en PTFE* | **7.315.142** |
| Wire cable, 50 m, st. steel/PTFE<br>*Câble en acier inox de 50 m avec revétement en PTFE* | **7.315.143** |
| Transport case / *Coffret de transport* | **7.315.144** |





**7.315.15***

**Disposable liquid samplers,** made of PE transparent, designed for sampling of strongly adhesive liquids, complete with handle. Standard pack of 25 pieces

***Echantillonneurs de liquide à usage unique,*** *en polyéthylène (PE) transparent, recommandés pour les liquides fortement collants, livré avec poignée. En paquet standard de 25 pièces*

| Total length<br>*Longueur totale*<br>mm | Capacity<br>*Capacité*<br>ml | Pluning-depth x Ø<br>*Longueur d'immersion x Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 500 | 75 | 350 x 27 | **7.315.150** |
| 750 | 175 | 600 x 27 | **7.315.151** |
| 1000 | 275 | 850 x 27 | **7.315.152** |

**Quick samplers with channel,** for direct sampling of bulk goods from sacks or open containers into a sample bottle, available in stainless steel 316 or in transparent polypropylene. Supplied complete with 2 plastic sample bottles and cleaning brush

***Echantillonneur rapide à cavité,*** *pour l'échantillonnage direct dans des flacons de produits en vrac à partir des sacs ou autres. Disponible en acier inoxydable 316 ou en polypropylène (PP) transparent. Livré avec 2 flacons de récupération en plastique et une brosse de nettoyage*

| Material<br>*Matière* | Capacity<br>*Capacité*<br>ml | Total length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| AISI 316 | 75 | 500 | **7.315.160** |
| PP | 75 | 500 | **7.315.161** |




**7.315.16***

**Collecting bottles,** made of transparent polypropylene (PP) for use with Quick sampler

***Flacon-collecteurs,*** *en polypropylène transparent, à utiliser avec l'échantillonneur rapide*

| Capacity<br>*Capacité*<br>ml | Packing<br>*Conditionnement*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 6 | **7.315.170** |
| 500 | 4 | **7.315.171** |

**Sampler StickProof,** made of stainless steel V4A (316L) with sampling chamber of 120 mm for direct filling into sample bag up to 50 ml, with handle grip of dia. 25 mm and borehole with dia. 20 mm. Supplied complete with clamp and 100 sample bags 120 x 170 mm made of PP

***Lance d'échantillonnage,*** *en acier inoxydable V4A (316L) avec chambre d'échantillonnage de 120 mm pour la prise d'échantillon directe dans un sachet jusqu'à 50 ml, avec poignée de dia. 25 mm et pointe de 20 mm. Livré complet avec pince de fixation et 100 sachets de collecte en polypropylène de 120 x 170 mm*

| Total length<br>*Longueur totale*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 410 | **7.315.180** |
| 1100 | **7.315.181** |



**7.315.18***

**Milk powder collector,** conical, made of stainless steel 316, sterilizable, for sampling some quantities of milk powder from bags or caks

***Collecteur pour lait en poudre,*** *en acier inoxydable 316 stérilisable, pour échantillonnage de petites quantités de lait en poudre en sac ou en baril*

| Capacity<br>*Capacité*<br>ml | Total length<br>*Longueur totale*<br>mm | Ø<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 150 | 480 | 28 | **7.315.190** |



**7.315.190**

**Multi-samplers,** made of various materials for the sampling of bulk goods with several closed chambers. Diameter 25 mm

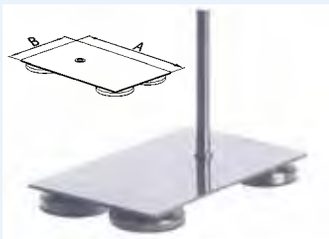
***Echantillonneurs à multi-compartiments,*** *en diverses matières pour la prise d'échantillons en vrac. Diamètre 25 mm*

| Material<br>*Matière* | Total length<br>*Longueur totale*<br>mm | Sampling depth<br>*Pénétration*<br>mm | No of chambers<br>*N° de cavités* | Capacity<br>*Capacité*<br>ml | Order No.<br>*N° de codeml* |
|---|---|---|---|---|---|
| V4A (316) PTFE | 550 | 430 | 1 | 1 x 17 | **7.315.200** |
| V4A (316) PTFE | 850 | 710 | 1 | 1 x 17 | **7.315.201** |
| V4A (316) PTFE | 1500 | 1355 | 1 | 1 x 17 | **7.315.202** |
| | | | | | |
| Aluminium | 550 | 430 | 3 | 3 x 17 | **7.315.210** |
| Aluminium | 850 | 710 | 3 | 3 x 17 | **7.315.211** |
| Aluminium | 1500 | 1355 | 5 | 5 x 17 | **7.315.212** |
| | | | | | |
| V4A (316) | 550 | 430 | 3 | 3 x 14 | **7.315.220** |
| V4A (316) | 850 | 710 | 3 | 3 x 17 | **7.315.221** |
| V4A (316) | 1500 | 1355 | 5 | 5 x 17 | **7.315.222** |
| | | | | | |
| V4A (316) PTFE | 550 | 430 | 3 | 3 x 14 | **7.315.230** |
| V4A (316) PTFE | 850 | 710 | 3 | 3 x 17 | **7.315.231** |
| V4A (316) PTFE | 1500 | 1355 | 5 | 5 x 17 | **7.315.232** |



**7.315.2****

## Support Frame
*Matériel de montage*

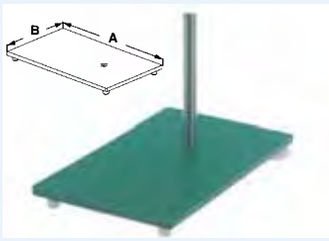



7.400.000

**Stand bases made of stainless steel,** with winding M10 for rod, with 1 adjustable foot but without support rod, acc. to DIN 12892 (please state in your inquiry the place of the winding hole: short or length side or center )

***Supports de table en acier inoxydable*** *avec trou à filetage M10 pour tige, avec un pied réglable mais livré sans tige (prière spécifier dans votre demande l'emplacement du trou fileté: excentré sur côté largeur - côté longueur ou central)*

| Dimensions<br>*Dimensions*<br>mm | Weight<br>*Poids*<br>kg | Order No.<br>*N° de code* |
|---|---|---|
| 210x130 | 1.6 | **7.400.000** |
| 250x160 | 1.9 | **7.400.001** |
| 300x150 | 2.1 | **7.400.002** |
| 315x200 | 2.4 | **7.400.003** |




7.400.01*

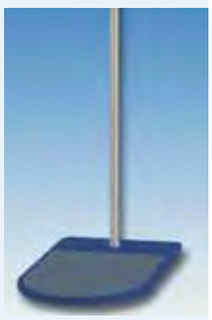
**Stand bases made of steel hammereffect green painted with winding M10 for rod,** with 1 adjustable foot but without support rod, acc. to DIN 12892 (please state in your inquiry the place of the winding hole:width or length side or center )

***Supports de table en acier martelé peint en vert avec trou à filetage M10 pour tige,*** *avec un pied réglable mais livré sans tige (prière spécifier dans votre demande l'emplacement du trou fileté: sur côté largeur - côté longueur ou central)*

| Dimensions<br>*Dimensions*<br>mm | Weight<br>*Poids*<br>kg | Order No.<br>*N° de code* |
|---|---|---|
| 180 x 100 | 0.8 | **7.400.010** |
| 210 x 130 | 1.3 | **7.400.011** |
| 210 x 130 | 1.8 | **7.400.012** |
| 250 x 160 | 2.0 | **7.400.013** |
| 250 x 160 | 2.6 | **7.400.014** |
| 300 x 150 | 2.2 | **7.400.015** |
| 315 x 200 | 3.0 | **7.400.016** |
| 315 x 200 | 4.0 | **7.400.017** |
| 315 x 200 | 5.0 | **7.400.018** |



7.400.030



7.400.031

**Stand bases** made of varnished cast iron covered with antislide silicon protection and stainless steel rod suitable for Stirring motors and homogenizers

***Statifs*** *en fonte laquée avec revêtement en silicone antidérapant et tige excentrée en acier inoxydable, adaptés pour moteurs d'agitation et homogénieseurs*

| Dimensions<br>*Dimensions*<br>mm | Rod<br>*Tige*<br>(Ø x H) mm | Order No.<br>*N° de code* |
|---|---|---|
| 200 x 350 | 16 x 800 | **7.400.030** |
| 300 x400 | 23 x 1000 | **7.400.031** |



7.400.040

**Circular foot support** made of cast iron painted of 80 mm dia., for rods up to 12 mm in horizontal and vertical

***Pied rond de fixation*** *en fonte peinte de dia. 80 mm, pour tiges horizontales et verticale de 12 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.400.040** |



7.400.050

**U-shaped stand,** with stainless steel rod dia. 20 x 800 mm, weight 7 kg

***Support avec base en U,*** *y compris tige en acier inoxydable de 12 x 800 mm. Poids 7 Kg*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.400.050** |



7.400.060

**U-Stand base heavy duty,** made of varnished cast iron with stainless steel rod suitable for Stirring motors and homogenizers

***Statif en U,*** *lourd en fonte laquée avec tige centrale en acier inoxydable, adaptés pour moteurs d'agitation et homogénieseurs*

| Dimensions<br>*Dimensions*<br>mm | Rod<br>*Tige*<br>(Ø x H) mm | Order No.<br>*N° de code* |
|---|---|---|
| 340 x 290 | 23 x 800 | **7.400.060** |

**H-shaped stand,** with stainless rod 800 x 20 mm, suitable for loads up to 20kg at 300 mm height from the base and for use with stirrers etc...

***Support avec base en H,*** *y compris tige en acier inoxydable de 800x20mm, utilisé aussi pour moteur-agitateurs etc...*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.400.070** |



**7.400.070**

**H-shaped stand,** cast iron, 210 x 200mm, for rods upto 12 mm, weight 1.2 kg

***Support avec base en H en fonte,*** *210 x 200mm, pour tiges jusqu'à 12mm. Poids 1.2 kg*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.400.080** |



**7.400.080**

**H-Stand base heavy duty** with adjustable foot distance, made of varnished cast iron with stainless steel rod suitable for Stirring motors and homogenizers

*Statif en H, lourd à réglage de la distance des pieds, en fonte laquée avec tige centrale en acier inoxydable, adaptés pour moteurs d'agitation et homogénieseurs*

| Dimensions<br>*Dimensions*<br>mm | Rod<br>*Tige*<br>(Ø x H) mm | Order No.<br>*N° de code* |
|---|---|---|
| 390 x 750 | 23 x 1000 | **7.400.090** |



**7.400.090**

**Stand Tripod bases,** with winding M10 for rod

***Statifs trépied,*** *avec trou à filetage M10 pour tige*

| Foot x Ø<br>*Branches x Ø*<br>mm | Steel vanished<br>*Acier vernis* | stainless steel<br>*Acier inoxidable* |
|---|---|---|
| 125 x 230 | **7.400.100** | **7.400.110** |
| 105 x 210 | **7.400.101** | |
| 145 x 290 | **7.400.102** | |

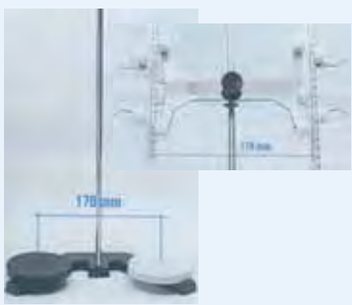


**7.400.1****

**Stand base for burettes,** heavy duty cast iron with stainless steel rod, 2 plates at the base (one in black and one in white) each 105 mm diameter and supplied complete with aluminium burette clamp including bosshead and PVC rolls

***Statif pour burettes,*** *version robuste en fonte avec tige en acier inoxydable, à 2 supports noir et blanc chacun de diamètre 105 mm et livré complet avec pince pour deux burettes à roulettes en PVC avec noix de fixation*

| Weight<br>*Poids*<br>kg | Rod<br>*Tige*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 2 | 10 x 600 | **7.400.120** |

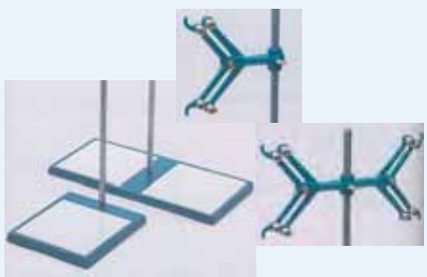



**7.400.120**

**Stand base for burettes,** painted cast iron stand with one or two porcelain plates, stainless steel rod 12 x 600 mm and clamp with brass rolls for burettes

***Statif pour burettes,*** *en fonte laquée avec une ou deux plaques en porcelaine et tige de 12 x 600 mm en acier inoxydable et pince à roulettes en laiton pour burettes*

| | Order No.<br>*N° de code* |
|---|---|
| With 1 plate and clamp for 1 burette | **7.400.130** |
| *Avec 1 plaque et pinse pour 1 burette* | |
| With 2 plates and clamp for 2 burettes | **7.400.131** |
| *Avec 2 plaques et pinse pour 2 burettes* | |



**7.400.130**

**Rods for stand base** made of steel zinked with or without winding

***Tiges de statif,*** *en acier zinqué, avec et sans filetage*

| Dimensions<br>*Dimensions*<br>(Ø x H) mm | With winding M10<br>*avec filtage M10* | without winding<br>*sans filetage* |
|---|---|---|
| 12 x 500 | **7.400.140** | **7.400.150** |
| 12 x 600 | **7.400.141** | **7.400.151** |
| 12 x 750 | **7.400.142** | **7.400.152** |
| 12 x 1000 | **7.400.143** | **7.400.153** |
| 12 x 1250 | **7.400.144** | **7.400.154** |
| 12 x 1500 | **7.400.145** | **7.400.155** |



**7.400.14*** **7.400.15***




**Rods for stand base** made of stainless steel with or without winding

***Tiges de statif,*** *en acier inoxydable, avec et sans filetage*

| Dimensions<br>*Dimensions*<br>(Ø x H) mm | With winding M10<br>*avec filtage M10* | without winding<br>*sans filetage* |
|---|---|---|
| 12 x 500 | 7.400.160 | 7.400.180 |
| 12 x 600 | 7.400.161 | 7.400.181 |
| 12 x 750 | 7.400.162 | 7.400.182 |
| 12 x 1000 | 7.400.163 | 7.400.183 |
| 12 x 1250 | 7.400.164 | 7.400.184 |
| 12 x 1500 | 7.400.165 | 7.400.185 |
| 13 x 500 | 7.400.166 | 7.400.186 |
| 13 x 600 | 7.400.167 | 7.400.187 |
| 13 x 750 | 7.400.168 | 7.400.188 |
| 13 x 1000 | 7.400.169 | 7.400.189 |
| 13 x 1250 | 7.400.170 | 7.400.190 |
| 13 x 1500 | 7.400.171 | 7.400.191 |
| 16 x 1000 | 7.400.172 | 7.400.192 |
| 16 x 1250 | 7.400.173 | 7.400.193 |
| 16 x 1500 | 7.400.174 | 7.400.194 |




**Rods for stand base** made of aluminium with or without winding

***Tiges de statif,*** *en aluminium, avec et sans filetage*

| Dimensions<br>*Dimensions*<br>(Ø x H) mm | With winding M10<br>*avec filtage M10* | without winding<br>*sans filetage* |
|---|---|---|
| 12 x 500 | 7.400.200 | 7.400.210 |
| 12 x 600 | 7.400.201 | 7.400.211 |
| 12 x 750 | 7.400.202 | 7.400.212 |
| 12 x 1000 | 7.400.203 | 7.400.213 |



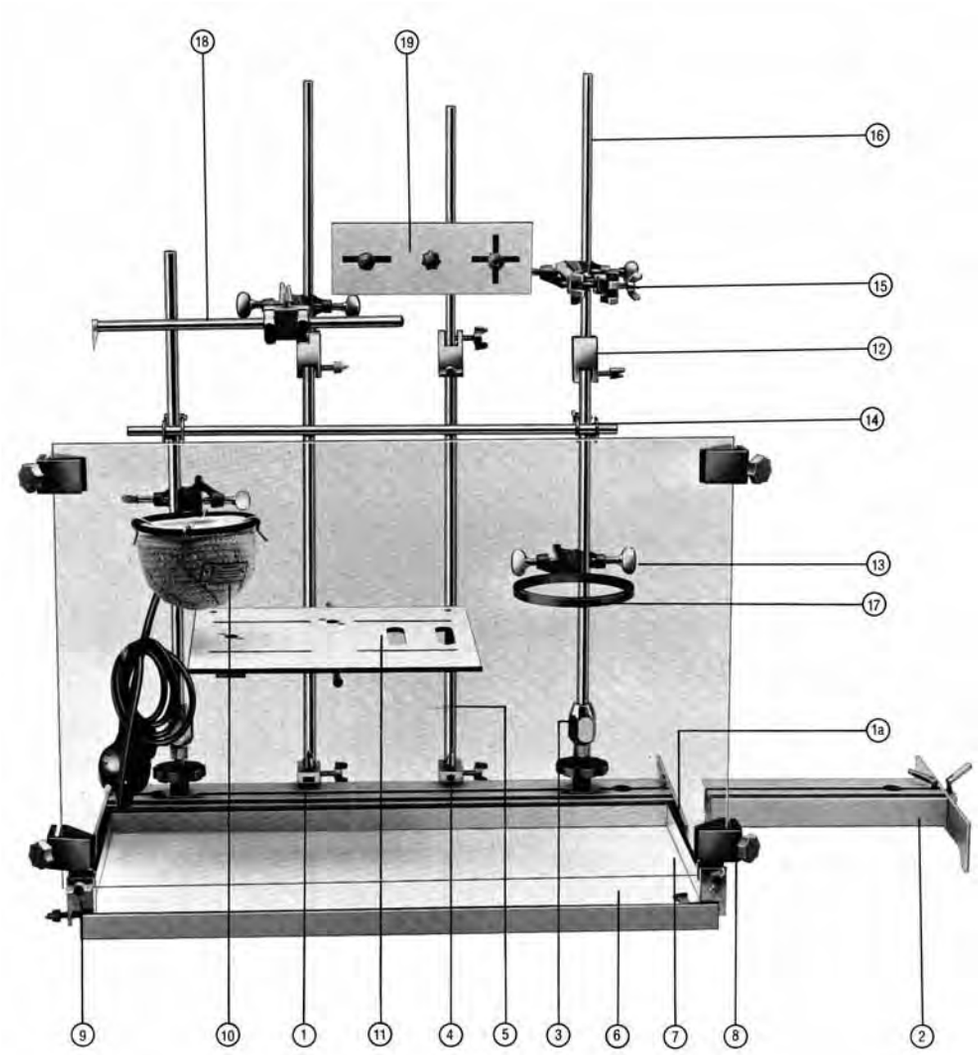
**Tubes for frames,** made of stainless steel

***Tiges creuses pour assemblage,*** *en acier inoxydable*

| Dimensions<br>*Dimensions*<br>(Ø x H) mm | Order No.<br>*N° de code* |
|---|---|
| 10 x 500 | 7.400.220 |
| 10 x 600 | 7.400.221 |
| 12 x 500 | 7.400.222 |
| 12 x 600 | 7.400.223 |
| 12 x 750 | 7.400.224 |
| 12 x 1000 | 7.400.225 |
| 13 x 500 | 7.400.226 |
| 13 x 750 | 7.400.227 |
| 13 x 1000 | 7.400.228 |
| 16 x 500 | 7.400.229 |
| 16 x 750 | 7.400.230 |
| 16 x 1000 | 7.400.231 |

**Support system-WSS**
Created for the documentation of experiments in the instruction at schools. A particular advantage is the fact that you can already prepare an experiment and that you can put in with the apparatus to the place of communication. A special sleeve enables telescoping, the movable bases can be coupled and guarantee a solide lattice wall. The multiple use system offers many advantages for almost any application. The use of two kinds of material only guarantees that you have no trouble with thigtly sticking adjusting screws

***Système de montage et de fixation WSS,*** *pour les travaux pratiques et expérimentaux dans divers domaines d'applications, ce système offre de nombreux avantages et vous garantie une utilisation aisée*




**Please refer to the next page for more details**
*Veuillez svp vous référer à la page suivante*

# SUPPORT FRAME
## *MATERIEL DE MONTAGE*

| Picture No.<br>*Figure No.* | | Order No<br>*N° de code* |
|---|---|---|
| **1** | Base, triple profile,1000 mm<br>*Embase à triple profilé, 1000 mm* | **8.000.001** |
| | Base, triple profile, 600 mm<br>*Embase à triple profilé, 600 mm* | **8.000.002** |
| | Base, triple profile, 250 mm<br>*Embase à triple profilé, 250 mm* | **8.000.003** |
| **1a** | Pair of foot-side walls, gross-piece type<br>*Paire de traverses latérales* | **8.000.004** |
| **2** | Extension side piece for base<br>*Extension latérale* | **8.000.005** |
| 3 | Quick-chucking sleeve 10/13 mm incl. support rod 50 x 13 mm<br>*Mandrin de serrage 10/13 mm avec tige de fixation 50 x 13mm* | **8.000.007** |
| **4** | Double-rod-universal sleeve 13/10 mm<br>*Raccord universel double 13/10 mm* | **8.000.008** |
| **5** | Support rod 500 x 13 mm, made of stainless steel<br>*Tige de fixation 500 x 13 mm en acier inoxydable* | **8.000.010** |
| | Support rod 300 x 13 mm, made of stainless steel<br>*Tige de fixation 300 x 13 mm en acier inoxydable* | **8.000.011** |
| | Support rod 100 x 13 mm, made of stainless steel<br>*Tige de fixation 100 x 13 mm en acier inoxydable* | **8.000.012** |
| **6** | Protective plate, 1250 x 600 x 5 mm<br>*Plaque de protection 1250 x 600 x 5 mm* | **8.000.013** |
| **7** | Experimenting tray 590 x 300 x 30 mm<br>*Plateau à expérience 590 x 300 x 30 mm* | **8.000.015** |
| **8** | Corner stabilizer, set of 4 pcs. for the protective plate, with side protection<br>*Stabilisateurs, jeu de 4 pour la plaque protectrice à protection latérale* | **8.000.016** |
| **9** | Clamping block for protective plate, 2 pcs. 400 x 615 x 5 mm<br>*Bloques de fixation pour plaque protectrice, jeu de 2, 400 x 615 x 5 mm* | **8.000.018** |
| **10** | Heating mantle for flasks of 100 ml capacity<br>*Manteau chauffant pour ballon de 100 ml* | **8.000.019** |
| **11** | Universal-clamping table, with sloted holes, support rod included<br>*Pince universelle de table avec tige de fixation* | **8.000.020** |
| **13** | Double sleeve<br>*Raccord double* | **8.000.023** |
| **14** | Hook-sleeve, made of stainless steel, for mounting the lattice<br>*Raccord à crochet, en acier inoxydable* | **8.000.024** |
| **15** | Universal clamp, made of stainless steel, 0 - 80 mm<br>*Pince universelle, en acier inoxydable, ouverture 0 - 80 mm* | **8.000.025** |
| **16** | Support rod 500 x 10 mm, made of stainless steel<br>*Tige de fixation 500 x 10 mm, en acier inoxydable* | **8.000.021** |
| | Support rod 300 x 10 mm, made of stainless steel<br>*Tige de fixation 300 x 10 mm, en acier inoxydable* | **8.000.026** |
| | Support rod 100 x 10 mm, made of stainless steel<br>*Tige de fixation 100 x 10 mm, en acier inoxydable* | **8.000.027** |
| **17** | Metal ring, outer Ø 120 mm<br>*Anneau en métal, dia. ext. 120 mm* | **8.000.028** |
| **18** | Syringe clamp of 50/100 ml<br>*Pince à seringue de 50/100 ml* | **8.000.029** |
| **19** | Clamp plate, complete with syringe clamps and double socket, black and red<br>*Plaque de fixation, complète avec pinces à seringue, à double raccord, noir et rouge* | **8.000.030** |

**Support set, with base 1a**
As complete support set we recommend the following combination for our support combi-box. Thus you can arrange and assemble all support variants necessary

***Kit de montage, avec embase 1a.***
*En tant que système complet, nous recomandons la combination suivante pour notre support combi-box. Ainsi vous pouvez composer et assembler toutes les variantes nécessaires*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **8.001.000** |
| **Individual parts /** *Accessoires individuels* | |
| 1 Base triple profile 600 mm<br>*1 Embase de 600 mm* | **8.000.002** |
| 1 Pair of foot-side walls, gross-piece type<br>*1 Paire de paroies latérales* | **8.000.004** |
| 3 Quick-chucking sleeve 10/13 mm incl. support rod 50 x 13 mm<br>*3 Mandrins de fixation 10/13 mm y compris tige de 50 x 13 mm* | **8.000.007** |
| 3 Double-rod-universal sleeves 13/10 mm<br>*Raccords doubles universels 13/10 mm* | **8.000.008** |
| 3 Support rods 500 x 10 mm, made of stainless steel<br>*3 Tiges de fixation 500 x 10mm, en acier inoxydable* | **8.000.021** |
| 3 Double sleeves<br>*3 Raccords doubles* | **8.000.023** |
| 1 Metal ring, outer Ø 120 mm<br>*1 Anneau en métal, dia. ext. 120 mm* | **8.000.028** |
| 2 Syringe clamps of 50/100 ml<br>*2 Pinces à seringue de 50/100 ml* | **8.000.029** |

**Support set, with base, standard type**
As complete support set we recommend the following combination for our support combi-box. Thus you can arrange and assemble all support variants necessary

***Kit de montage, version standard***
*En tant que système complet, nous recommandons la combination suivante pour notre support combi-box. Ainsi vous pouvez composer et assembler toutes les variantes nécessaires*

| | Order No.<br>*N° de code* |
|---|---|
| Complete / *Complet* | **8.002.000** |
| **Individual parts /** *Accessoires individuels* | |
| 1 Base triple profile 600 mm<br>*1 Embase de 600 mm* | **8.000.002** |
| 1 Pair of foot-side walls, gross-piece type<br>*1 Paire de paroies latérales* | **8.000.004** |
| 6 Double-rod-universal sleeves 13/10 mm<br>*6 Raccords doubles universels 13/10mm* | **8.000.008** |
| 3 Support rods 500 x 13 mm, made of stainless steel<br>*3 Tiges de fixation 500x13mm, en acier inoxydable* | **8.000.010** |
| 3 Support rods 500 x 10 mm, made of stainless steel<br>*3 Tiges de fixation 500 x 10mm, en acier inoxydable* | **8.000.021** |
| 3 Double sleeves<br>*3 Raccords doubles* | **8.000.023** |
| 1 Metal ring, outer Ø 120 mm<br>*1 Anneau en métal, dia. ext. 120 mm* | **8.000.028** |
| 2 Syringe clamps of 50/100 ml<br>*2 Pinces à seringue de 50/100 ml* | **8.000.029** |

# SUPPORT FRAME
## *MATERIEL DE MONTAGE*



**7.400.300**

**Support frame combi model,** made of stainless steel. Dimensions:
820 x 1010 x 560 mm (w x h x d)
- This demonstration model is a special combination of heavy frame (26,9mm) & DIN-support frame material (12mm). It has a significant high stability. The clamps, bossheads and container included on the picture are available by choice and not included in the system. These kind of support frame combi models can be constructed on customer request.

This demonstration model consists in the following components:
- 8 pieces 12mm rods
- 10 pieces 26.9mm tubes
- 20 pieces Bossheads
- 9 pieces KEE-clamps
- 1 piece Sheet 85x20 cm

***Système de montage Combi,*** *en acier inoxydable.*
*Dimensions : 820 x 1010 x 560 mm (l x h x p)*
- *Ce modèle est un combiné spécial du système de montage lourd (26,9mm) et DIN (12mm), très stable. Les pinces, noix & récipients visibles sur la photo sont disponibles à la demande et ne sont pas inclus dans le système. Ces types de modèles peuvent être construit sur demande.*

*Ce modèle de démonstration consiste en:*
- *8 Tiges de 12mm*
- *10 Tubes de 26,9mm*
- *20 Noix*
- *9 Mmanchons de tubes KEE:*
- *1 Tôle 85x20cm*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.400.300** |



**Stand support frame,** made of stainless steel
- Modular stand support frame with 3 different depths (500/750/1000mm)

Modules that can be combined:
- Upper part / Top (A)
- Center part (M) in 3 different width (1000/1500/2000 mm)
- Side part left (SL)
- Side part right (SR)
- In total 28 different systems can be combined
- Dimensions are outside dimensions, see table

***Système de montage lourd,*** *en acier inoxydable*
- *Système de fixation modulaire lourde, 3 profondeurs différentes (590/810/1090mm)*

*Modules à combiner:*
- *Partie haute (A)*
- *Partie centrale (M) en 3 largeurs différentes(1090/1590/2090 mm)*
- *Pièce latérale gauche (SL)*
- *Pièce latérale droite (SR)*
- *En total 28 systèmes à combiner*
- *Dimensions extérieures, voir le tableau*

| Width<br>*Largeur*<br>mm | Depth<br>*Profondeur*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1090 | 590 | 1950 | **7.400.310** |
| 1090 | 590 | 2450 | **7.400.320** |
| 1590 | 590 | 1950 | **7.400.330** |
| 1590 | 590 | 1950 | **7.400.340** |



**7.400.350**

**Mobile frame,** made of stainless steel
- Complete setup on rolls made of stainless steel
- Cage structure, that encloses the whole apparatus and construction
- Fixation of frame constructions at side or back boards
- Relocatable fixation tubes for side or back boards (ab 750mm Tiefe)
- Incl. easy to take off stainless steel collecting tray for leackages
- External Dimensions:
  810 x 560 x 1960 mm (w x d x h)

***Système de montage mobile,*** *en acier inoxydable*
- *Montage complet sur roulettes, en acier inoxydable*
- *Structure en cage, qui englobe toute la construction et appareils*
- *Fixation latérale ou arrière de la construction par tubes de fixation mobiles*
- *Avec cuve de récupération en acier inoxydable, facilement démontable*
- *Dimensions extérieures:*
  *810 x 560 x 1960 mm (l x p x h)*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.400.350** |

## Bossheads

*Noix de serrage*

**Bossheads for perpendicular 90° frame assembly,** made of alloy for rods

***Noix pour assemblage à angle droit 90°,*** *en alliage pour tiges*

| For rods<br>*Pour tiges*<br>mm | Type | Order No.<br>*N° de code* |
|---|---|---|
| 12-13 x 12-13 | 1 | 7.400.400 |
| 16 x 16 | 3 | 7.400.401 |
| 12-13 x 16 | 3 | 7.400.402 |



7.400.400



7.400.401

**Bossheads swivel type 360° for frame assembly,** made of alloy for rods

***Noix orientables pour assemblage à 360°,*** *en alliage pour tiges*

| For rods<br>*Pour tiges*<br>mm | Type | Order No.<br>*N° de code* |
|---|---|---|
| 12-13 x 12-13 | 1 | 7.400.410 |
| 16 x 16 | 2 | 7.400.411 |
| 3 x 16 | 3 | 7.400.412 |



7.400.410



7.400.411



7.400.412

**Joint Bosshead for frame assembly,** made of alloy, for connection of 2 rods

***Manchon pour assemblage en prolongement,*** *en alliage, pour deux tiges*

| For rods<br>*Pour tiges*<br>mm | Type | Order No.<br>*N° de code* |
|---|---|---|
| 12-13 x 12-13 | 1 | 7.400.420 |



7.400.420

**Allen key,** for bossheads, made of steel

***Clé de serrage à 6 pans, en acier,*** *pour les noix et manchons*

| | Order No.<br>*N° de code* |
|---|---|
| | 7.400.430 |



7.400.430

**Special Bosshead heavy duty,** made of cast aluminium, for Stirring motors and homogenizers

***Noix spéciale adaptés*** *pour moteurs d'agitation et homogénieseurs, en fonte d'aluminium*

| Grip capacity<br>*Overture*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 0 - 25 | 7.400.440 |



7.400.440

**Bossheads for multilevel and 3-Dimensional constructions,** with three angles (90+180+270°), made of aluminium alloy

***Noix universelle pour assemblage tridimensionel ou à niveaux multiples,*** *à 3 angles d'inclinaison (90+180+270°), en alliage d'aluminium*

| For rods<br>*Pour tiges*<br>mm | Type | Order No.<br>*N° de code* |
|---|---|---|
| 9-13 | | 7.400.450 |
| 19-23 | | 7.400.451 |



7.400.450

**Bosshead for frame assembly,** for rods up to 13 mm, angle 90°, with screws

***Noix de serrage à 90° pour assemblage,*** *pour tiges jusqu'à 13 mm, avec vis*

| Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|
| Stainless steel / *Acier inoxydable* | 7.400.460 |
| Cast iron vernashed / *Fonte vernis* | 7.400.461 |



7.400.460



7.400.461

# SUPPORT FRAME
## *MATERIEL DE MONTAGE*



7.400.470



7.400.471

**Bosshead hook-type for frame assembly,** for rods up to 13 mm, angle 90°, with screw

***Noix de serrage à 90° pour assemblage,*** *pour tiges jusqu'à 13 mm, avec vis*

| Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|
| Stainless steel / *Acier inoxydable* | **7.400.470** |
| Cast iron vernashed / *Fonte vernis* | **7.400.471** |



7.400.480

**Bosshead Universal for frame assembly,** for rods up to 13 mm, angle 180+90°, with screws

***Noix universelle à 180+90° pour assemblage,*** *pour tiges jusqu'à 13 mm, avec vis*

| Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|
| Aluminium / *Aluminium* | **7.400.480** |



7.400.490

**Bosshead swivel typel for frame assembly,** for rods from 5 up to 15 mm, angle 0-360°, with screws

***Noix orientable à 360° pour assemblage,*** *pour tiges de 5 à 15 mm, avec vis*

| Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|
| Aluminium / *Aluminium* | **7.400.490** |
| Stainless steel / *Acier inoxydable* | **7.400.491** |
| Cast iron vernashed / *Fonte vernis* | **7.400.492** |



7.400.500



7.400.501



7.400.502

**Bossheads 90°,** acc. to DIN 12985 with screws

***Noix double de serrage,*** *à angle 90°, avec vis à ailette*

| Material<br>*Matière* | Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Aluminium / *Aluminium* | 2 - 16 | **7.400.500** |
| Stainless steel / *Acier inoxydable* | 2 - 16 | **7.400.501** |
| Cast iron / *Fonte* | 2 - 16 | **7.400.502** |



7.400.511

**Bossheads double-cross 90 + 180°,** with screws

***Noix en croix double de serrage,*** *à angle 90 + 180°, avec vis*

| Material<br>*Matière* | Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Aluminium / *Aluminium* | 2 - 16 | **7.400.510** |
| Stainless steel / *Acier inoxydable* | 2 - 16 | **7.400.511** |
| Cast iron / *Fonte* | 2 - 16 | **7.400.512** |
| Aluminium / *Aluminium* | 8 - 27 | **7.400.513** |
| Stainless steel / *Acier inoxydable* | 8 - 27 | **7.400.514** |
| Cast iron / *Fonte* | 8 - 27 | **7.400.515** |



7.400.520

**Bossheads double 190°.** with screws

***Noix double de serrage, à angle 190°,*** *avec vis*

| Material<br>*Matière* | Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Aluminium / *Aluminium* | 20 + 30 | **7.400.520** |

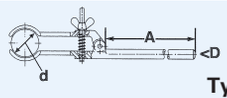
## Clamps
## *Pinces*

**Retort clamps,** with jaws lined with cork, without bosshead

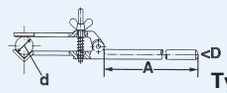
***Pinces de serrage,** à mâchoires revêtues de liège, sans noix de fixation*

**Type 1** = with round jaws / *avec mâchoires rondes*
**Type 2** = with angular/plate jaws / *avec mâchoires angulaire/plate*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Type<br>*Version* | Cast iron<br>*Fonte* | Stainless steel<br>*Acier inoxydable* |
|---|---|---|---|---|
| 0 - 15 | 150 x 10 - 12 | 1 | **7.400.600** | **7.400.620** |
| 0 - 25 | 150 x 10 - 12 | 1 | **7.400.601** | **7.400.621** |
| 0 - 40 | 150 x 10 - 12 | 1 | **7.400.602** | **7.400.622** |
| 0 - 60 | 150 x 10 - 12 | 1 | **7.400.603** | **7.400.623** |
| 0 - 80 | 180 x 12 | 1 | **7.400.604** | **7.400.624** |
| 0 - 100 | 180 x 12 | 1 | **7.400.605** | **7.400.625** |
| 0 - 120 | 180 x 12 | 1 | **7.400.606** | **7.400.626** |
| 0 - 150 | 180 x 12 | 1 | **7.400.607** | **7.400.627** |
| 0 - 15 | 150 x 10 - 12 | 2 | **7.400.608** | **7.400.628** |
| 0 - 25 | 150 x 10 - 12 | 2 | **7.400.609** | **7.400.629** |
| 0 - 40 | 150 x 10 - 12 | 2 | **7.400.610** | **7.400.630** |
| 0 - 60 | 150 x 10 - 12 | 2 | **7.400.611** | **7.400.631** |
| 0 - 80 | 180 x 12 | 2 | - | **7.400.632** |



Type 1



Type 2


**7.400.600**


**7.400.601**


**7.400.609**


**7.400.620**

**Retort clamps,** with round jaws plastic-coated, without bosshead

***Pinces de serrage,** à mâchoires rondes plastifiées, sans noix de fixation*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Alloy/PVC<br>*Alliage/PVC* | Stainless steel silicone<br>*Acier inoxydable silicone* |
|---|---|---|---|
| 8 - 30 | 125 x 8 | **7.400.640** | **7.400.650** |
| 15 - 65 | 140 x 12 | **7.400.641** | - |
| 20 - 75 | 140 x 12 | - | **7.400.652** |
| 22 - 70 | 140 x 12 | **7.400.643** | - |


**7.400.64***


**7.400.65***

**Retort clamps,** made of stainless steel with round jaws PVC-coated, without bosshead

***Pinces de serrage,** en acier inoxydable à mâchoires rondes plastifiées en PVC, sans noix de fixation*

| Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 30 | **7.400.660** |
| 40 | **7.400.661** |
| 60 | **7.400.662** |


**7.400.66***

**3-fingers clamps with rubber-shoes,** made of stainless steel

***Pinces à 3 doigts revêtus de caoutchouc,** en acier inoxydable*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 0 - 80 | 180 x 12 | **7.400.670** |
| 0 - 120 | 180 x 12 | **7.400.671** |


**7.400.67***

**3-fingers clamps with PVC-shoes,** made of aluminium alloy

***Pinces à 3 doigts revêtus de PVC,** en alliage d'aluminium*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 0 - 70 | 130 x 8 | **7.400.680** |
| 12 - 100 | 140 x 12 | **7.400.681** |
| 0 - 125 | 140 x 10 | **7.400.682** |


**7.400.680**


**7.400.681**


**7.400.682**

# SUPPORT FRAME
## *MATERIEL DE MONTAGE*



7.400.69*

**3-fingers clamps with PVC-shoes,** made of chrome plated metal

***Pinces à 3 doigts revêtus de PVC,*** *en acier chromé*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 0 - 35 | 220 x 10 | 7.400.690 |
| 0 - 60 | 250 x 10 | 7.400.691 |



7.400.700



7.400.711



7.400.712

**Retort clamps 4-fingers,** with fingers plastified

***Pinces à 4 doigts revêtus de plastique,*** *pour statif*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Aluminium/PVC<br>*Aluminium/PVC* | Stainless steel silicone<br>*Acier inoxidable silicone* |
|---|---|---|---|
| 35 - 100 | 140 x 12 | 7.400.700 | 7.400.710 |
| 0 - 120 | 150 x 12 | - | 7.400.711 |
| 30 - 100 | 180 x 12 | - | 7.400.712 |
| 50 - 150 | 200 x 12 | - | 7.400.713 |



7.400.720

**Universal clamp 4-fingers,** made of aluminium with cork lined jaws. With a hinge joint of 180° rotation angle fingers plastified

***Pince universelle à 4 doigts,*** *orientable à 180°, en aluiminium avec doigts revêtus de liège*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 0 - 80 | 270 x 10 | 7.400.720 |



7.400.730

**Condenser clamp,** swivel type made of cast iron with fingers PVC-coated

***Pince à réfrigérant,*** *orientable en fonte avec doigts revêtus de PVC*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 50 - 100 | 160 x 10 | 7.400.730 |



7.400.740

**Chain clamp,** made of stainless steel with silicon coating, 70 cm

***Pince à chaine,*** *en acier inoxydable avec revêtement en silicone, 70 cm*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 50 - 160 | 250 x 12 | 7.400.740 |



7.400.750

**Beaker clamp,** made of chrome plated metal and fingers coated with glass fibre

***Pince à bécher,*** *en acier chromé avec mâchoires revêtues de fibres de verre*

| Opening<br>*Serrage*<br>mm | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 80 - 180 | 400 x 12 | 7.400.750 |



7.400.760



7.400.761



7.400.770



7.400.771

**Burette clamps,** simple version with silicon-coated fingers and bosshead

**Type 1:** single

**Type 2:** double

***Pinces à burette,*** *version simple avec doigts revêtus de silicone et noix de serrage*

| Opening<br>*Serrage*<br>mm | Type<br>*Type* | Steel varnished<br>*Acier vernis* | Stainless steel<br>*Acier inoxidable* |
|---|---|---|---|
| 0 - 20 | 1 | 7.400.760 | 7.400.770 |
| 0 - 20 | 2 | 7.400.761 | 7.400.771 |

**Burette clamp,** self adjusting clamp for 2 burettes, made of aluminium with plastic rolls and bosshead 0 - 13 mm

***Pince à burettes,*** *double, en aluminium avec roulettes en plastique et noix de serrage 0 - 13 mm*

| Distance<br>*Distance*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 170 | 7.400.780 |



7.400.780

**Burette or tube clamp,** made of chrom plated metal with bosshead 0 - 13 mm

***Pince à burette ou à tube,*** *en acier chromé avec noix de serrage 0 - 13 mm*

| Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 4 - 20 | 7.400.790 |



7.400.790

**Burette clamp,** made of chrom plated metal with shaft, length 220 x 10 mm

***Pince à burette ou à tube,*** *en acier chromé avec tige, longueur 220 x 10 mm*

| Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 4 - 20 | 7.400.800 |



7.400.800

**Thermometer clamp,** made of chrom plated metal with press lock and swivelling bosshead 0 - 16 mm

***Pince à thermomètre,*** *en acier chromé avec vis de fixation et noix orientable de serrage 0 - 16 mm*

| Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 6 - 15 | 7.400.810 |



7.400.810

**Thermometer clamp,** made of chrom plated metal with hook and bosshead 0 - 16 mm

***Pince à thermomètre,*** *en acier chromé avec crochet de suspension et noix de serrage 0 - 16 mm*

| Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 6 - 15 | 7.400.820 |



7.400.820

**Flask or condenser clamp,** made of chrom plated metal with PVC coated jaws and shaft, length 220 x 10 mm

***Pince à fiole ou à réfrigérant,*** *en acier chromé à mâchoires revêtues de PVC, avec tige, longueur 220 x 10 mm*

| Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 12 - 45 | 7.400.830 |



7.400.830

**Triple clamp,** made of stainless steel, used as holder for flanges of reaction vessels and usefull to change the vessel and the lid alternating. Without accessorie. Rod Ø 15 or 26,9 mm

***Fixation triple pour réacteur,*** *en acier inoxydable. Système de maintien à 3 points, permettant d'enlever le couvercle ou de déplacer le réacteur sans démontage du système. Sans accessoires. Tige de 15 ou de 26,9 mm de diamètre*

| DN<br>mm | Ø<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 100 | 15 | 7.400.850 |
| 120 | 15 | 7.400.851 |
| 150 | 15 | 7.400.852 |
| 200 | 26.9 | 7.400.853 |



7.400.850



**7.400.90***



**7.400.91***



**7.400.92***



**7.400.93***



**7.400.95***



**7.400.990**



**7.400.992**

## Rings
## *Anneaux de support*

**Rings** | ***Anneaux de support***

**Type 1 =** closed form / *fermé*
**Type 2 =** closed form with bosshead / *fermé avec noix de fixation*
**Type 3 =** opened form / *ouvert*

| **Material**<br>***Matière*** | **Ring Ø**<br>**mm** | **Length**<br>***Longueur***<br>**mm** | **Type 1 closed**<br>***Fermé*** | **Type 2 closed with bosshead**<br>***fermé avec noix*** | **Type 3 opened**<br>***ouvert*** |
|---|---|---|---|---|---|
| Stainless steel<br>*acier inoxydable* | 50 | 160 | **7.400.900** | - | **7.400.950** |
| Stainless steel<br>*acier inoxydable* | 70 | 200 | **7.400.901** | - | **7.400.951** |
| Stainless steel<br>*acier inoxydable* | 100 | 220 | **7.400.902** | - | **7.400.952** |
| Stainless steel<br>*acier inoxydable* | 120 | 220 | **7.400.903** | - | - |
| Stainless steel<br>*acier inoxydable* | 140 | 220 | **7.400.904** | - | - |
| Stainless steel<br>*acier inoxydable* | 50 | 70 | - | **7.400.925** | - |
| Stainless steel<br>*acier inoxydable* | 70 | 70 | - | **7.400.926** | - |
| Stainless steel<br>*acier inoxydable* | 100 | 70 | - | **7.400.927** | - |
| Stainless steel<br>*acier inoxydable* | 120 | 70 | - | **7.400.928** | - |
| Stainless steel<br>*acier inoxydable* | 140 | 70 | - | **7.400.929** | - |
| Steel green<br>*acier peint vert* | 50 | 160 | **7.400.910** | - | - |
| Steel green<br>*acier peint vert* | 70 | 200 | **7.400.911** | - | - |
| Steel green<br>*acier peint vert* | 100 | 220 | **7.400.912** | - | - |
| Steel green<br>*acier peint vert* | 130 | 220 | **7.400.913** | - | - |
| Steel green<br>*acier peint vert* | 160 | 220 | **7.400.914** | - | - |
| Steel green<br>*acier peint vert* | 50 | 70 | - | **7.400.935** | - |
| Steel green<br>*acier peint vert* | 70 | 70 | - | **7.400.936** | - |
| Steel green<br>*acier peint vert* | 100 | 70 | - | **7.400.937** | - |
| Steel green<br>*acier peint vert* | 130 | 70 | - | **7.400.938** | - |
| Steel green<br>*acier peint vert* | 160 | 70 | - | **7.400.939** | - |

## Trolleys
## *Chariots*

**Laboratory carts,** made of stainless steel, with 2 steering wheels, with lock

***Chariots de laboratoire,*** *en acier inoxydable avec 2 roues mobiles, avec freins*

| | **Dimensions**<br>***Dimensions***<br>**(L x W x H) mm** | **kg/max.** | **Order No.**<br>***N° de code*** |
|---|---|---|---|
| 2 shelves / *2 étagères* 800 x 500 mm | 900 x 600 x 940 | 120 | **7.400.990** |
| 3 shelves / *3 étagères* 800 x 500 mm | 900 x 600 x 940 | 130 | **7.400.991** |
| 1 shelf / *1 étagère* 540 x 540 mm | 640 x 585 x 1050 | 120 | **7.400.992** |
| 1 shelf / *1 étagère* 820 x 540 mm | 930 x 585 x 1050 | 120 | **7.400.993** |

The cart will be delivered demounted / *Le chariot est livré démonté*

## Gas burners
## *Becs à gaz*

All our gas burners are made at the newest technical standard. Every gasburner will be controlled and tested.

*Tous nos becs à gaz de laboratoire sont fabriqués avec le plus grand soin. Chaque brûleur subit un contrôle de qualité.*

**Connections / *Pressions de distribtion***

| | |
|---|---|
| Natural gas / *Gaz naturel* | 23 mbar |
| Propan/Butan / *Gaz Propane/butane* | 80 mbar |
| Allgas / *Gaz toute nature* | 5 - 100 mbar |

**Bunsen Burners** with flame stabilizer, made of nickel-plated brass

***Becs de Bunsen** avec stabilisateur de flamme, en laiton nickelé*

| Type<br>*Type* | Natural gas<br>*Gaz naturel* | Propan/Butan<br>*Propane/Butane* | All gas<br>*Gaz toute nature* |
|---|---|---|---|
| With air regulation, 11 mm Ø x 130 mm<br>*Avec virole d'air* | 7.401.000 | 7.401.010 | - |
| With air regulation and stopcock, 11 mm Ø x 130 mm<br>*Avec virole d'air et robinet à pointeau* | 7.401.001 | 7.401.011 | - |
| With air regulation and stopcock, 13 mm Ø x 150 mm<br>*Avec virole d'air et robinet à pointeau* | 7.401.002 | 7.401.012 | - |
| With air regulation and stopcock, pilot flame, 13 mm Ø x 160 mm<br>*Avec virole d'air et robinet à pointeau et veilleuse* | 7.401.003 | 7.401.013 | - |
| With air regulation and stopcock, 11 mm Ø x 130 mm<br>*Avec virole d'air et robinet à pointeau* | - | - | 7.401.024 |
| With air regulation and stopcock, pilot flame and tilt stopcock, 13 mm Ø x 160 mm<br>*Avec virole d'air, veilleuse et robinet basculant* | - | - | 7.401.025 |

**Meker Burners,** with grid, air regulator and stopcock, made of nickel plated brass

***Becs de Meker,** avec grille, virole d'air et robinet à vis, en laiton nickelé*

| Ø x Height<br>*Ø x Hauteur*<br>mm | Natural gas<br>*Gaz naturel* | Propan/Butan<br>*Propane/Butane* | Town gas |
|---|---|---|---|
| 15 x 140 | 7.401.030 | 7.401.040 | 7.401.050 |
| 20 x 155 | 7.401.031 | 7.401.041 | 7.401.051 |
| 25 x 170 | 7.401.032 | 7.401.042 | 7.401.052 |
| 30 x 200 | 7.401.033 | 7.401.043 | 7.401.053 |

**Meker burners,** with grid and screw stopcock, made of nickel-plated brass

***Becs de Meker,** à grille et robinet à vis, en laiton nickelé*

| Ø x Height<br>*Ø x Hauteur*<br>mm | Natural gas<br>*Gaz naturel* | Propan/Butan<br>*Propane/Butane* | All gas<br>*Gaz toute nature* |
|---|---|---|---|
| 20 x 155 | - | - | 7.401.060 |
| 25 x 180 | - | - | 7.401.061 |
| 30 x 185 | - | - | 7.401.062 |

**Safety gas burners** with needle valve, equipped with bimetal-flame-magnet breech, air regulation and pilot flame, made of nickel-plated brass

***Becs à gaz de sécurité,** à robinet basculant et équipé d'un palpeur bimétal à fermeture magnétique, d'une virole d'air et d'une veilleuse*

| | Natural gas<br>*Gaz naturel* | Propan/Butan<br>*Propane/Butane* | All gas<br>*Gaz toute nature* |
|---|---|---|---|
| | 7.401.070 | 7.401.071 | 7.401.072 |

**Safety burner,** for butane gas, instant safety flame push button ignition. Used in mircobiology, bacteriology and for general use for fast heat and fusion. Powered by a 1.5 V battery

***Brûleur à gaz de sécurité à allumage par touche,** pour la microbiologie, bactériologie et autres applications, pour gaz butane, alimenté par pile de 1.5 V*

| | Order No.<br>*N° de code* |
|---|---|
| | 7.401.080 |


7.401.000


7.401.001


7.401.002


7.401.003


7.401.025


7.401.03*


7.401.06*


7.401.072


7.401.080



7.401.090

**Micro-burner (blow-lamp),** portable for butane gas with a removable bench top base. Piezo electric start of the microflame and temperature upto 1300 °C. Filling charge 250 ml

***Micro-brûleur (chalumeau),*** *portable, pour gaz butane avec embase interchangeable. Allumage piézo-électrique et température max. 1300 °C. Charge 250 ml*

| | Order No. / *N° de code* |
|---|---|
| | **7.401.090** |
| **Accessories /** *Accessoires* | |
| Butane gas refilling charge, 250 ml / *Recharge de gaz butane, 250 ml* | **7.401.091** |



7.401.100

**Spirit - burner,** adjustable, capacity 150 ml, made of stainless steel

***Brûleur à alcool,*** *réglable, capacité 150 ml, en acier inoxydable*

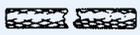
| | Order No. / *N° de code* |
|---|---|
| | **7.401.100** |
| **Spare parts /** *Pièces de rechange* | |
| Wick, 1 m / *mèche, 1 m* | **7.401.105** |



5.760.***



5.760.400



5.760.300

**Spirit lamp,** flat conical shape, with ground-on cup, made of borosilicate glass

***Lampe à alcool, forme conique,*** *à fond plat, en verre borosilicaté*

| **Capacity** / ***Capacité*** / **ml** | Order No. / *N° de code* |
|---|---|
| 100 | **5.760.100** |
| **Spare parts /** *Pièces de rechange* | |
| Wicks / *Mêches* | **5.760.300** |
| Socket of non-corrosive metal / *Raccord en métal non-corrosif* | **5.760.400** |



7.401.110

**Cartridge Bunsen burner,** Labogaz, max. 1100 °C, supplied with stand for use with gas cartridges type C206

***Bec Bunsen Labogaz à cartouche,*** *max. 1100°C, livré avec support, pour utilisation de cartouches à gaz type C206*

| | Order No. / *N° de code* |
|---|---|
| | **7.401.110** |
| **Spare parts /** *Pièces de rechange* | |
| Labogaz Cartridges C206, set of 6 ea. 190g, filled with butan/propan mixture (70/30 %) / *Cartouches Labogaz C206, jeu de 6 chacune de 190g, remplissage mixte butane/propane (70/30 %)* | **7.401.115** |



7.401.120

**SOUDOGAZ Hand burner,** for use with butan gas cartridges type C206, 1500 °C, total weight approx. 800 g

***Bec à gaz butane SOUDOGAZ*** *portable, pour utilisation avec cartouches type C206, 1500 °C, 800 g*

| | Order No. / *N° de code* |
|---|---|
| | **7.401.120** |
| **Spare parts /** *Pièces de rechange* | |
| Labogaz Cartridges C206, set of 6 ea. 190g, filled with butan/propan mixture (70/30 %) / *Cartouches Labogaz C206, jeu de 6 chacune de 190g, remplissage mixte butane/propane (70/30 %)* | **7.401.115** |



7.401.130



7.401.131

**Gas lighter**

***Allume - gaz***

| | Order No. / *N° de code* |
|---|---|
| Type 1 with flint / *Pierre* | **7.401.130** |
| Type 2 Piezo - automatic | **7.401.131** |
| **Spare parts /** *Pièces de rechange* | |
| Flints / *Pierre* | **7.401.135** |

**Digital gas-safety burner**
Designed especially for use inside a microbiological safety cabinet for flame sterilizing of instruments and bottle necks. In chemical laboratories, it replaces the Bunsen burner for rapid heating of liquids. All controls are conveniently located on the front panel. Integrated instrument tray. Large LED digital display indicating actual remaining burn-time (counting backwards), actual mode of operation and fault report. Sensor distance continuously and digitally adjustable from 0-80 mm. Overheat protection. For natural gas (central gas line) or propane/butane (cartridges). Operation with gas cartridges CV 360 or C 206 (adapter/accessories) or by using the central gas supply

***Brûleur à gaz de sécurité digital***
*Concu spécialement pour les travaux de térilisation d'instrumentssous enceinte microbiologique de sécurité. Il remplace aussi le bec bunsen dans les laboratoires de chimie, pour le chauffage rapide de liquides. Tous les contrôles sont montés sur l'avant du boitier. Livré avec plateau à instrument. Grand afficheur digital LED affichant le temps restant de chauffage, le mode actuel d'opération et le rapport de défaillance. Sonde à distance réglable en continu et digitalement de 0-80 mm. Protection contre la surchauffe. Pour utilisation directe sur conduite de gaz naturel ou sur cartouches de gaz butane/propane CV360 ou C206 ou sur l'alimentation centrale de gaz*

| | Order No.<br>*N° de code* |
|---|---|
| Digital gas burner with stainless steel foot-switch and sensor, 230 V<br>*Brûleur digital avec commande à pédale en acier inoxydable et sonde. 230* | **7.401.200** |
| **Accessories /** *Accessoires* | |
| Adapter cable for the connection to 12 V<br>*Câble d'alimentation à 12V* | **7.401.210** |
| Adapter for the connection of CV 360 butane cartridges<br>*Adaptateur pour raccordement des cartouches à gaz butane CV360* | **7.401.211** |
| Adapter for the connection of C 206 butane cartridges incl. pressure reducing valve and gas safety hose (0,5 m)<br>*Adaptateur pour raccordement des cartouches à gaz butane CV206 y compris réducteur de pression et tuyau à gaz de 0.5m* | **7.401.212** |
| Glass spatter guard / *Protection en verre* | **7.401.213** |
| Flame shield / *Ecran de flamme* | **7.401.214** |
| Gas safety hose 0,75 m for natural gas<br>*Tuyau de sécurité pour gaz naturel, 0.75m* | **7.401.215** |
| Gas safety hose 0,5 m with threaded screw connections for propane/butane<br>*Tuyau de sécurité pour gaz butane/propane de 0.5m avec vis de fixation* | **7.401.216** |
| Gas safety hose with threaded screw connections 2,0 m for propane/butane<br>*Tuyau de sécurité pour gaz butane/propane de 2.0m avec vis de fixation* | **7.401.217** |
| Hot-Tray / *Plateau de chauffe* | **7.401.218** |
| Foot-switch made of stainless steel<br>*Commande à pied en acier inoxydable* | **7.401.219** |
| Butane cartridges CV 360 (pack=6) content 52 g/cartridge GGVS 2/10 BS, UN 2037<br>*Cartouches de gaz butane CV 360 (paquet de 6), 52g* | **7.401.220** |
| Butane cartridges C 206 (pack=6) content 190 g/cartridge GGVS 2/11 BS, UN 2037<br>*Cartouches de gaz butane CV 206 (paquet de 6), 190g* | **7.401.221** |



## Electro burner
### *Brûleur électrique*

**Electro-Burner**
The Electro-Burner has a glowing (red hot) air stream. Of the variety of application purposes we wish to mention only: Heating of test glasses, flasks, beakers, basins, crucibles etc. Glowing, evaporating, pre-incineration, drying, melting, softening of thermoplasic masses, for example Plexidur etc. The bottom temperature is less than 60°C, increased durability due to stronger cross section of heating conductor, tumbler-switch at the safty-plug, total construction meets the instructions of VDE, consumption about 590 watts, available for 230 V / 50 Hz AC. Temperature of the muffle furnace up to 850°C. Supplied with rack, made of stainless steel, for vessels

***Brûleur électrique***
*A utilisation universelle et adapté pour chauffer des ballons, creusets, récipients etc... Température max. 850°C. La température au socle est inférieure à 60°C. Livré avec portoir en acier inoxydable pour disposition des récipients. Alimentation 230V-50Hz.*



**7.401.260**

| | Order No.<br>*N° de code* |
|---|---|
| Electro-Burner, standard, without electronic power regulation<br>*Brûleur électique standard, sans régulateur électrique d'énergie* | **7.401.250** |
| Electro-Burner, standard, with electronic power regulation<br>*Brûleur électique standard, avec régulateur électrique d'énergie* | **7.401.260** |

## Tripods and Accessories
### *Trépieds et accessiores*

**Tripods,** for gaz burner

***Trépieds,*** *pour becs à gaz*



**7.401.300**



**7.401.311**

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Stainless steel<br>*Acier inoxydable* | Tempered cast iron<br>*Alliage de fonte* |
|---|---|---|---|
| 80 | 150 | **7.401.300** | - |
| 100 | 180 | **7.401.301** | **7.401.311** |
| 120 | 210 | **7.401.302** | **7.401.312** |
| 140 | 210 | - | **7.401.313** |
| 140 | 220 | **7.401.304** | - |
| 160 | 230 | **7.401.305** | - |

**Triangles** with stainless steel wire and tubes made of quartz

***Triangles*** *à fil d'acier inox et tubes en quartz*



**7.401.320**

| Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 40 | **7.401.320** |
| 50 | **7.401.321** |
| 60 | **7.401.322** |
| 70 | **7.401.323** |

**Triangles** with quartz-tubes on nickel chrome wire

***Triangles*** *à tubes de silice sur monture en fil d'acier*



**7.401.330**

| Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 40 | **7.401.330** |
| 50 | **7.401.331** |
| 60 | **7.401.332** |
| 70 | **7.401.333** |

**Triangles,** made of 4 mm diameter stainless steel wire electro-polished

***Triangles*** *en fil d'acier inoxydable de 4 mm, électro-poli*



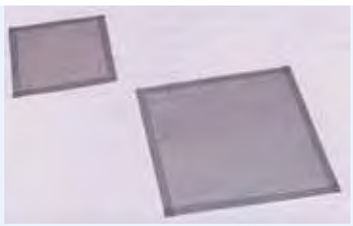
**7.401.340**

| Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 40 | **7.401.340** |
| 50 | **7.401.341** |
| 60 | **7.401.342** |
| 70 | **7.401.343** |
| 80 | **7.401.344** |

**Wire gauzes,** made of stainless steel, flat

***Toiles métalliques,*** *en acier inox, plat*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 135 x 135 | **7.401.350** |
| 155 x 155 | **7.401.351** |
| 175 x 175 | **7.401.352** |
| 195 x 195 | **7.401.353** |



**7.401.350**

**Wire gauzes,** made of iron wire with ceramic center

***Toiles métalliques en fil d'acier,*** *avec centre en céramique*

| Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 100 x 100 | **7.401.360** |
| 120 x 120 | **7.401.361** |
| 140 x 140 | **7.401.362** |
| 160 x 160 | **7.401.363** |
| 180 x 180 | **7.401.364** |
| 200 x 200 | **7.401.365** |



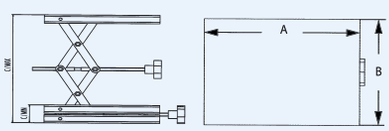
**7.401.360**

## Lab-Jacks
## *Support élévateurs*

**Lab-Jacks**

***Support élévateurs,*** *BOY de laboratoire*

| Material<br>*Matière* | A | B | C/min | C/max | kg/max | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | | |
| Stainless steel / *acier inoxydable* | 100 | 100 | 55 | 120 | 10 | **7.402.000** |
| Stainless steel / *acier inoxydable* | 160 | 130 | 60 | 275 | 20 | **7.402.001** |
| Stainless steel / *acier inoxydable* | 200 | 200 | 60 | 275 | 20 | **7.402.002** |
| Stainless steel / *acier inoxydable* | 240 | 240 | 60 | 275 | 20 | **7.402.003** |
| Stainless steel / *acier inoxydable* | 300 | 300 | 130 | 470 | 80 | **7.402.004** |
| Stainless steel / *acier inoxydable* | 400 | 400 | 130 | 470 | 80 | **7.402.005** |
| Aluminium green / *Aluminium, verte* | 100 | 100 | 55 | 120 | 10 | **7.402.010** |
| Aluminium green / *Aluminium, verte* | 160 | 130 | 60 | 275 | 20 | **7.402.011** |
| Aluminium green / *Aluminium, verte* | 200 | 200 | 60 | 275 | 20 | **7.402.012** |
| Aluminium green / *Aluminium, verte* | 240 | 240 | 60 | 275 | 20 | **7.402.013** |
| Aluminium green / *Aluminium, verte* | 300 | 300 | 130 | 470 | 80 | **7.402.014** |
| Aluminium green / *Aluminium, verte* | 400 | 400 | 130 | 470 | 80 | **7.402.015** |
| Aluminium anodized blue<br>*Aluminium, anodisé bleu* | 100 | 100 | 55 | 120 | 10 | **7.402.020** |
| Aluminium anodized blue<br>*Aluminium, anodisé bleu* | 160 | 130 | 60 | 275 | 20 | **7.402.021** |
| Aluminium anodized blue<br>*Aluminium, anodisé bleu* | 200 | 200 | 60 | 275 | 20 | **7.402.022** |
| Aluminium anodized blue<br>*Aluminium, anodisé bleu* | 240 | 240 | 60 | 275 | 20 | **7.402.023** |
| Aluminium anodized blue<br>*Aluminium, anodisé bleu* | 300 | 300 | 130 | 470 | 80 | **7.402.024** |
| Aluminium anodized blue<br>*Aluminium, anodisé bleu* | 400 | 400 | 130 | 470 | 80 | **7.402.025** |






**7.402.00***



**7.402.01***



**7.402.02***

**Lift truck,** hydraulic, with foot pump, 2 sterring rolls and brake

***Chariot élévateur hydraulique,*** *par pompe à pied avec 2 roues mobiles et freins*

| Type<br>*Type* | A | B | C/min | C/max | kg/max | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | | |
| Platform Steel coated yellow<br>*Tableau en acier, jaune* | 800 | 500 | 280 | 900 | 300 | **7.402.030** |
| Platform stainless steel<br>*Tableau en acier inoxydable* | 800 | 500 | 280 | 900 | 300 | **7.402.035** |



**7.402.030**



**7.402.035**




**7.4052.000**

## Containers
## *Récipients*

**Canisters,** with screw-cap and tube, made of stainless steel

***Jéricanes,*** *avec bouchon à vis et tube-déversoir, en acier inoxydable*

| Capacity<br>*Capacité*<br>L | Order No.<br>*N° de code* |
|---|---|
| 20 | **7.405.000** |
| 10 | **7.405.001** |
| **Accessories /** *Accessoires* | |
| Tube / *Tube* | **7.405.005** |



**7.405.010**

**Stainless steel safety containers,** for safe storage of flammable liquids

***Réservoirs de sécurité,*** *en acier inoxydable pour liquides inflammables*

| Capacity<br>*Capacité*<br>L | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.0 | 210 | 110 | 1 | **7.405.010** |
| 2.5 | 270 | 130 | 1 | **7.405.011** |
| 5.0 | 385 | 175 | 1 | **7.405.012** |
| 1.0 | 230 | 110 | 2 | **7.405.013** |
| 2.5 | 290 | 130 | 2 | **7.405.014** |
| 5.0 | 420 | 175 | 2 | **7.405.015** |

**Beakers,** made of stainless steel

***Béchers,*** *en acier inoxydable*

**Type 1 =** with rim / *avec bordure*
**Type 2 =** with rim and spout / *avec bordure et bec*
**Type 3 =** with rim and handle / *avec bordure et anse*
**Type 4 =** with rim, handle and spout / *avec bordure, anse et bec*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 60 | 50 | 1 | **7.405.020** |
| 250 | 85 | 65 | 1 | **7.405.021** |
| 500 | 110 | 80 | 1 | **7.405.022** |
| 1000 | 130 | 100 | 1 | **7.405.023** |
| 2000 | 180 | 120 | 1 | **7.405.024** |
| 3000 | 180 | 150 | 1 | **7.405.025** |
| 5000 | 210 | 180 | 1 | **7.405.026** |
| 100 | 60 | 50 | 2 | **7.405.030** |
| 250 | 85 | 65 | 2 | **7.405.031** |
| 500 | 110 | 80 | 2 | **7.405.032** |
| 1000 | 130 | 100 | 2 | **7.405.033** |
| 2000 | 180 | 120 | 2 | **7.405.034** |
| 3000 | 180 | 150 | 2 | **7.405.035** |
| 5000 | 210 | 180 | 2 | **7.405.036** |
| 100 | 60 | 50 | 3 | **7.405.040** |
| 250 | 85 | 65 | 3 | **7.405.041** |
| 500 | 110 | 80 | 3 | **7.405.042** |
| 1000 | 130 | 100 | 3 | **7.405.043** |
| 2000 | 180 | 120 | 3 | **7.405.044** |
| 3000 | 180 | 150 | 3 | **7.405.045** |
| 5000 | 210 | 180 | 3 | **7.405.046** |
| 100 | 60 | 50 | 4 | **7.405.050** |
| 250 | 85 | 65 | 4 | **7.405.051** |
| 500 | 110 | 80 | 4 | **7.405.052** |
| 1000 | 130 | 100 | 4 | **7.405.053** |
| 2000 | 180 | 120 | 4 | **7.405.054** |
| 3000 | 180 | 150 | 4 | **7.405.055** |
| 5000 | 210 | 180 | 4 | **7.405.056** |



**7.405.020**



**7.405.030**



**7.405.050**

**Jars with lid,** made of stainless steel

***Boîtes avec couvercle,*** *en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 60 | 60 | **7.405.060** |
| 400 | 85 | 85 | **7.405.061** |
| 700 | 100 | 100 | **7.405.062** |
| 1200 | 120 | 120 | **7.405.063** |
| 2500 | 150 | 150 | **7.405.064** |
| 6000 | 200 | 200 | **7.405.065** |



**7.405.060**

**Jars with lid,** made of aluminium

***Boîtes avec couvercle,*** *en aluminium*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|
| 20 | 60 | 1 | **7.405.070** |
| 20 | 80 | 1 | **7.405.071** |
| 20 | 100 | 1 | **7.405.072** |
| 50 | 50 | 2 | **7.405.073** |
| 85 | 65 | 2 | **7.405.074** |
| 110 | 80 | 2 | **7.405.075** |



**7.405.070**

**Petri dishes,** made of stainless steel

***Boîtes de Pétri,*** *en acier inoxydable*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 15 | 100 | **7.405.080** |
| 20 | 60 | **7.405.081** |
| 20 | 75 | **7.405.082** |
| 20 | 90 | **7.405.083** |
| 20 | 120 | **7.405.084** |



**7.405.080**

**Evaporating dishes with flat bottom and lid,** made of pure nickel 99.5 %

***Capsules d'évaporation à fond plat et couvercle,*** *en nickel pur 99.5 %*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 45 | 19 | 55 | **7.405.090** |
| 45 | 16 | 60 | **7.405.091** |
| 73 | 19 | 70 | **7.405.092** |
| 100 | 16 | 90 | **7.405.093** |



**7.405.090**

**Evaporating dishes with flat bottom,** made of stainless steel

***Capsules d'évaporation à fond plat,*** *en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 20 | 20 | 40 | 5 | **7.405.100** |
| 35 | 25 | 50 | 5 | **7.405.101** |
| 60 | 30 | 60 | 1 | **7.405.102** |
| 85 | 35 | 70 | 1 | **7.405.103** |
| 100 | 40 | 80 | 1 | **7.405.104** |
| 250 | 50 | 100 | 1 | **7.405.105** |
| 500 | 60 | 120 | 1 | **7.405.106** |
| 1000 | 80 | 160 | 1 | **7.405.107** |
| 2000 | 100 | 200 | 1 | **7.405.108** |
| 5000 | 120 | 250 | 1 | **7.405.109** |



**7.405.100**

**Evaporating dishes with flat bottom and spout,** made of stainless steel

***Capsules d'évaporation à fond plat et à bec,*** *en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 20 | 20 | 40 | 5 | **7.405.120** |
| 35 | 25 | 50 | 5 | **7.405.121** |
| 60 | 30 | 60 | 1 | **7.405.122** |
| 85 | 35 | 70 | 1 | **7.405.123** |
| 100 | 40 | 80 | 1 | **7.405.124** |
| 250 | 50 | 100 | 1 | **7.405.125** |
| 500 | 60 | 120 | 1 | **7.405.126** |
| 1000 | 80 | 160 | 1 | **7.405.127** |
| 2000 | 100 | 200 | 1 | **7.405.128** |
| 5000 | 120 | 250 | 1 | **7.405.129** |



**7.405.120**

**Evaporating dishes with flat bottom, spout and handles,** made of stainless steel

***Capsules d'évaporation à fond plat, à bec avec anses,*** *en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 100 | 40 | 80 | **7.405.140** |
| 250 | 50 | 100 | **7.405.141** |
| 500 | 60 | 120 | **7.405.142** |
| 1000 | 80 | 160 | **7.405.143** |
| 2000 | 100 | 200 | **7.405.144** |
| 5000 | 120 | 250 | **7.405.145** |



**7.405.140**



**7.405.150**

**Evaporating dishes,** made of stainless steel, hemispherical form with round bottom

***Capsules d'évaporation à bec*** *en acier inoxydable, forme hémisphérique à fond rond*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 30 | 60 | **7.405.150** |
| 80 | 35 | 70 | **7.405.151** |
| 130 | 40 | 80 | **7.405.152** |
| 210 | 45 | 90 | **7.405.153** |
| 250 | 50 | 100 | **7.405.154** |
| 450 | 60 | 120 | **7.405.155** |
| 670 | 70 | 140 | **7.405.156** |
| 400 | 80 | 160 | **7.405.157** |
| 2006 | 100 | 200 | **7.405.158** |



**7.405.160**

**Evaporating dishes,** hemispherical form with round bottom and spout, made of pure nickel 99.5 %

***Capsules d'évaporation à bec,*** *forme hémisphérique à fond rond évasé, en nickel pur 99.5 %*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 30 | 25 | 50 | **7.405.160** |
| 50 | 30 | 60 | **7.405.161** |
| 80 | 35 | 70 | **7.405.162** |
| 100 | 40 | 80 | **7.405.163** |
| 250 | 50 | 100 | **7.405.164** |



**7.405.170**

**Crystallizing dishes,** made of stainless steel, high form with flat bottom

***Cristallisoirs en acier inoxydable,*** *forme haute à fond plat*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 125 | 35 | 75 | **7.405.170** |
| 250 | 45 | 85 | **7.405.171** |
| 500 | 55 | 110 | **7.405.172** |
| 1000 | 70 | 140 | **7.405.173** |
| 2000 | 105 | 160 | **7.405.174** |
| 5000 | 160 | 200 | **7.405.175** |



**7.405.180**

**Crystallizing dishes,** made of stainless steel, flat form with flat bottom

***Cristallisoirs en acier inoxydable,*** *forme basse à fond plat*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 40 | 25 | 60 | **7.405.180** |
| 50 | 20 | 60 | **7.405.181** |
| 60 | 25 | 70 | **7.405.182** |
| 75 | 20 | 70 | **7.405.183** |
| 90 | 30 | 80 | **7.405.184** |
| 100 | 20 | 80 | **7.405.185** |
| 180 | 35 | 100 | **7.405.186** |



**7.405.189**

**Weighing dishes / IR-samples**
suitable for the application in the infrared dryer. Ideal for moisture determination of samples in infrared ovens. Sample material should be distributed horizontally and reflect the heat evenly over the complete dish area. Can also be used as laboratory dishes. Made of aluminium sheet. Dimensions: (Ø x h): 100x7mm

***Capsules en aluminium***
*Idéal pour les applications dans four à infrarouge Pour la détermination de la teneur en eau d'échantillons dans les analyseurs à infrarouge. En feuille d'aluminium.*
*Dimensions: (Ø x h) 100 x 7mm*

| | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| | 80 | **7.405.189** |

**Measuring jug,** graduated, cylindrical shape, with spout and handle, made of stainless steel

***Béchers gradués à bec et anse,*** *forme cylindrique, en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 1000 | 140 | 100 | **7.405.190** |
| 2000 | 170 | 130 | **7.405.191** |



**7.405.190**

**Measuring jug,** graduated, conical shape, with handle, made of stainless steel

***Béchers gradués avec anse,*** *forme conique, en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 500 | 95 | 125 | 1 | **7.405.200** |
| 1000 | 120 | 135 | 1 | **7.405.201** |
| 2000 | 145 | 175 | 1 | **7.405.202** |
| 500 | 115 | 115 | 2 | **7.405.203** |
| 1000 | 160 | 140 | 2 | **7.405.204** |
| 1500 | 160 | 150 | 2 | **7.405.205** |
| 2000 | 185 | 160 | 2 | **7.405.206** |




**7.405.200**




**7.405.203**

**Mortars with pestle,** made of stainless steel

***Mortiers avec pilon,*** *en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 250 | 100 | **7.405.210** |
| 500 | 120 | **7.405.211** |
| 750 | 140 | **7.405.212** |
| 1000 | 160 | **7.405.213** |
| 1500 | 180 | **7.405.214** |
| 2000 | 200 | **7.405.215** |
| **Spare parts /** *Pièces de rechange* | | |
| Pestle / *Pilon* | | **7.405.219** |



**7.405.210**

**Sterilizing boxes** for Petri - dishes 100 mm, made of stainless steel

***Boîtes à stérilisation*** *pour boites de Pétri 100 mm, en acier inoxydable*

| Capacity<br>*Capacité*<br>Dishes/Boîtes | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 250 | 120 | **7.405.220** |
| 20 | 500 | 120 | **7.405.221** |



**7.405.220**

**Scoops,** made of stainless steel, for food or chemicals

***Pelles*** *pour produits chimiques ou alimentaires, en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | A<br>mm | a<br>mm | D<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 120 | 190 | 100 | 50 | **7.405.230** |
| 450 | 250 | 145 | 75 | **7.405.231** |
| 1000 | 320 | 190 | 105 | **7.405.232** |
| 1500 | 350 | 230 | 120 | **7.405.233** |
| 2000 | 370 | 250 | 150 | **7.405.234** |



**7.405.230**

**Scoops,** made of stainless steel, for food or chemicals, heavy model

***Pelles*** *pour produits chimiques ou alimentaires, en acier inoxydable, version robuste*

| Capacity<br>*Capacité*<br>ml | A<br>mm | a<br>mm | D<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 150 | 215 | 100 | 40 | **7.405.240** |
| 250 | 310 | 160 | 82 | **7.405.241** |
| 500 | 350 | 200 | 102 | **7.405.242** |
| 1000 | 390 | 220 | 120 | **7.405.243** |
| 2000 | 450 | 300 | 160 | **7.405.244** |



**7.405.240**



7.405.250

**Pharma Scoops,** made of stainless steel 316 for the sampling in pharmaceutical sector

***Pelles de Pharmacien,*** *en acier inoxydable 316 pour l'échantillonnage dans le pharmaceutique*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 24 | 44 | **7.405.250** |
| 450 | 38 | 70 | **7.405.251** |
| 100 | 50 | 100 | **7.405.252** |
| 75 | 95 | 215 | **7.405.253** |
| 1100 | 110 | 235 | **7.405.254** |
| 1200 | 125 | 195 | **7.405.255** |
| 1700 | 135 | 230 | **7.405.256** |
| 2500 | 185 | 215 | **7.405.257** |



7.405.260

**Chemical scoops,** made of aluminium, for food or chemicals

***Pelles,*** *en aluminium, pour produits chimiques ou alimentaires*

| Capacity<br>*Capacité*<br>ml | A<br>mm | a<br>mm | D<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 5 | 65 | 40 | 12 | **7.405.260** |
| 10 | 85 | 52 | 13 | **7.405.261** |
| 50 | 135 | 80 | 24 | **7.405.262** |
| 65 | 155 | 95 | 30 | **7.405.263** |
| 90 | 185 | 115 | 32 | **7.405.264** |
| 160 | 210 | 120 | 37 | **7.405.265** |
| 140 | 250 | 145 | 45 | **7.405.266** |
| 400 | 290 | 175 | 55 | **7.405.267** |
| 480 | 310 | 185 | 57 | **7.405.268** |
| 900 | 350 | 220 | 63 | **7.405.269** |
| 1600 | 400 | 270 | 83 | **7.405.270** |
| 2500 | 430 | 300 | 95 | **7.405.271** |
| 90 | 250 | 120 | 35 | **7.405.272** |
| 90 | 285 | 120 | 35 | **7.405.273** |
| 90 | 365 | 120 | 35 | **7.405.274** |

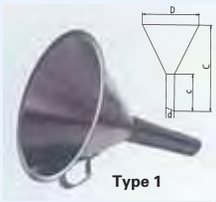


7.405.280

**Weighing scoops,** made of stainless steel or aluminium

***Mains pour poudres,*** *en acier inoxydable ou aluminium*

| A<br>mm | D<br>mm | Stainless steel<br>*Acier inoxydable* | Aluminium<br>*Aluminium* |
|---|---|---|---|
| 70 | 32 | **7.405.280** | **7.405.290** |
| 90 | 32 | **7.405.281** | **7.405.291** |
| 105 | 32 | **7.405.282** | **7.405.292** |
| 120 | 32 | **7.405.283** | **7.405.293** |
| 120 | 30 - 65 | **7.405.284** | |
| 160 | 30 - 75 | **7.405.285** | |
| 200 | 55 - 100 | **7.405.286** | |




7.405.300




7.405.306

**Funnels with handle,** made of stainless steel

***Entonnoirs avec anse,*** *en acier inoxydable*

| C<br>mm | c<br>mm | D<br>mm | d<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 115 | 50 | 80 | 12 | 1 | **7.405.300** |
| 125 | 65 | 100 | 12 | 1 | **7.405.301** |
| 145 | 80 | 120 | 13 | 1 | **7.405.302** |
| 190 | 90 | 150 | 17 | 1 | **7.405.303** |
| 220 | 90 | 200 | 18 | 1 | **7.405.304** |
| 260 | 90 | 250 | 18 | 1 | **7.405.305** |
| 320 | 115 | 300 | 22 | 2 | **7.405.306** |
| 430 | 135 | 400 | 50 | 2 | **7.405.307** |



7.405.310

**Funnels for powder,** made of stainless steel, with short stem

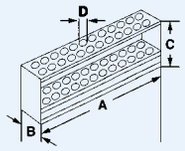
***Entonnoirs pour poudre,*** *en acier inoxydable, à tige courte*

| C<br>mm | c<br>mm | D<br>mm | d<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 140 | 60 | 120 | 20 | **7.405.310** |
| 150 | 60 | 155 | 30 | **7.405.311** |
| 180 | 60 | 200 | 30 | **7.405.312** |
| 220 | 60 | 240 | 30 | **7.405.313** |

**Test tubes racks,** made of stainless steel — ***Porte-tubes à essai,*** *en acier inoxydable*

| A | B | C | D | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| mm | mm | mm | mm | | |
| 145 | 52 | 90 | 17 | 2 x 6 | **7.405.320** |
| 278 | 52 | 90 | 17 | 2 x 12 | **7.405.321** |
| 287 | 97 | 90 | 17 | 4 x 12 | **7.405.322** |
| 164 | 60 | 90 | 20 | 2 x 6 | **7.405.323** |
| 310 | 60 | 90 | 20 | 2 x 12 | **7.405.324** |






**7.405.320**

**Racks, for butyrometers,** made of stainless steel — ***Porte-tubes à essai, pour butyromètres,*** *en acier inoxydable*

| A | B | C | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| mm | mm | mm | | |
| 200 | 70 | 165 | 6 x 2 | **7.405.330** |
| 185 | 95 | 165 | 8 x 3 | **7.405.331** |



**7.405.330**

**Test tube racks, Z-form,** made of stainless steel — ***Porte-tubes à essai en forme de Z,*** *en acier inoxydable*

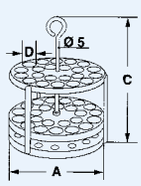
| A | B | C | D | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| mm | mm | mm | mm | | |
| 50 | 165 | 85 | 13 | 10 x 5 | **7.405.340** |
| 50 | 220 | 110 | 17 | 10 x 5 | **7.405.341** |
| 50 | 85 | 85 | 13 | 5 x 5 | **7.405.342** |
| 50 | 110 | 110 | 17 | 5 x 5 | **7.405.343** |



**7.405.340**

**Test tube racks, round,** made of stainless steel, for tubes of 13, 18 or 20 mm — ***Porte-tubes à essai, forme circulaire,*** *en acier inoxydable, pour tubes de 13, 18 ou 20 mm*

| A | C | D | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| mm | mm | mm | | |
| 98 | 165 | 20 | 9 x | **7.405.350** |
| 116 | 165 | 20 | 12 x | **7.405.351** |
| 194 | 165 | 20 | 45 x | **7.405.352** |






**7.405.350**

**Crucibles,** made of stainless steel — ***Creusets*** *en acier inoxydable*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Crucible<br>*Creuset* | Lid<br>*Couvercle* |
|---|---|---|---|---|---|
| 20 | 32 | 30 | 2.0 | **7.405.360** | **7.405.370** |
| 25 | 35 | 35 | 1.0 | **7.405.361** | **7.405.371** |
| 30 | 35 | 40 | 1.0 | **7.405.362** | **7.405.372** |
| 45 | 42 | 40 | 2.0 | **7.405.363** | **7.405.373** |
| 70 | 40 | 50 | 1.0 | **7.405.364** | **7.405.374** |
| 85 | 55 | 50 | 0.8 | **7.405.365** | **7.405.375** |
| 140 | 65 | 60 | 0.8 | **7.405.366** | **7.405.376** |

**Shown with lid (the cover must be ordered separately)**
***Montré avec le couvercle (Le couvercle doit être commandé séparément)***



**7.405.360**

**Crucibles,** made of pure nickel 99.5 % — ***Creusets*** *en nickel pur 99.5 %*

| Capacity<br>*Capacité*<br>ml | Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Crucible<br>*Creuset* | Lid<br>*Couvercle* |
|---|---|---|---|---|---|
| 5 | 20 | 20 | 0.5 | **7.405.400** | **7.405.450** |
| 10 | 25 | 25 | 0.5 | **7.405.401** | **7.405.451** |
| 15 | 30 | 30 | 0.5 | **7.405.402** | **7.405.452** |
| 25 | 35 | 35 | 0.5 | **7.405.403** | **7.405.453** |
| 30 | 40 | 40 | 0.5 | **7.405.404** | **7.405.454** |
| 50 | 45 | 45 | 0.5 | **7.405.405** | **7.405.455** |
| 70 | 50 | 50 | 0.5 | **7.405.406** | **7.405.456** |
| 130 | 60 | 60 | 0.5 | **7.405.407** | **7.405.457** |
| 270 | 80 | 80 | 0.5 | **7.405.408** | **7.405.458** |
| 15 | 30 | 30 | 1.0 | **7.405.409** | **7.405.452** |
| 25 | 35 | 35 | 1.0 | **7.405.410** | **7.405.453** |
| 30 | 40 | 40 | 1.0 | **7.405.411** | **7.405.454** |
| 50 | 45 | 45 | 1.0 | **7.405.412** | **7.405.455** |
| 70 | 50 | 50 | 1.0 | **7.405.413** | **7.405.456** |
| 130 | 60 | 60 | 1.0 | **7.405.414** | **7.405.457** |
| 270 | 80 | 80 | 1.0 | **7.405.415** | **7.405.458** |
| 50 | 45 | 45 | 1.5 | **7.405.416** | **7.405.455** |
| 30 | 40 | 40 | 2.0 | **7.405.417** | **7.405.454** |
| 70 | 50 | 50 | 2.0 | **7.405.418** | **7.405.456** |
| 130 | 60 | 60 | 2.0 | **7.405.419** | **7.405.457** |

**Shown with lid (the cover must be ordered separately)**
***Montré avec le couvercle (Le couvercle doit être commandé séparément)***



**7.405.400**



7.405.500

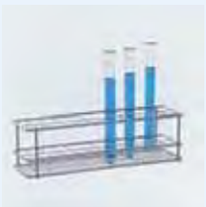


7.405.505

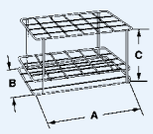
**Draining racks** made of steel polyethylen coated with drip - pan, for flasks and test tubes

***Egouttoirs** en fil d'acier revêtu de polyéthylène avec cuvette en plastique, pour ballons, fioles et tubes à essai*

| A<br>mm | B<br>mm | C<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 420 | 160 | 610 | 60 tubes / 5 flasks or ballons<br>*60 tubes / 5 fioles ou ballons* | **7.405.500** |
| 420 | 160 | 610 | 24 tubes / 20 flasks or ballons<br>*24 tubes / 20 fioles ou ballons* | **7.405.505** |



7.405.510



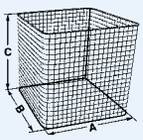

**Test tubes racks,** made of stainless steel wire with mesh 18 x 18mm for tubes up to 16 mm

***Porte-tubes à essai,** en fil d'acier inoydable, mailles de 18 x 18 mm pour tubes jusqu'à 16 mm*

| A<br>mm | B<br>mm | C<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 130 | 50 | 70 | 2 x 6 | **7.405.510** |
| 210 | 50 | 70 | 2 x 10 | **7.405.511** |
| 250 | 50 | 70 | 2 x 12 | **7.405.512** |
| 250 | 70 | 70 | 3 x 12 | **7.405.513** |
| 130 | 90 | 70 | 4 x 6 | **7.405.514** |
| 250 | 90 | 70 | 4 x 12 | **7.405.515** |
| 210 | 210 | 70 | 10 x 10 | **7.405.516** |



7.405.520




**Baskets,** made of stainless steel wire with mesh 8 x 8 mm

***Paniers** en fil d'acier inoxydable à maille de 8 x 8 mm*

| A<br>mm | B<br>mm | C<br>mm | | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 100 | 100 | 100 | | **7.405.520** |
| 120 | 120 | 100 | | **7.405.521** |
| 120 | 120 | 120 | | **7.405.522** |
| 150 | 100 | 100 | | **7.405.523** |
| 140 | 140 | 140 | | **7.405.524** |
| 150 | 150 | 150 | | **7.405.525** |
| 160 | 160 | 160 | | **7.405.526** |
| 200 | 150 | 150 | | **7.405.527** |
| 180 | 180 | 150 | | **7.405.528** |
| 180 | 180 | 180 | | **7.405.529** |
| 200 | 200 | 150 | | **7.405.530** |
| 200 | 200 | 200 | | **7.405.531** |
| 250 | 150 | 150 | | **7.405.532** |
| 300 | 200 | 150 | | **7.405.533** |
| 400 | 300 | 200 | * | **7.405.534** |
| 500 | 300 | 250 | * | **7.405.535** |
| 600 | 400 | 300 | * | **7.405.536** |
| 400 | 300 | 200 | ** | **7.405.537** |

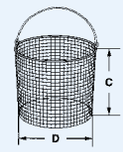
* with 2 cross-ties / *avec 2 renforts de fond*
** with handle / *avec anse*



7.405.537



7.405.540




**Baskets,** round, made of stainless steel wire with mesh 8 x 8 mm, with handle

***Paniers circulaires,** en fil d'acier inoxydable à maille de 8 x 8 mm, avec anse*

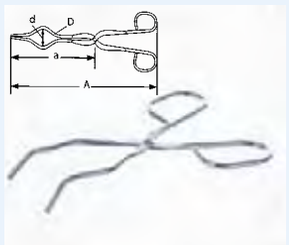
| C<br>mm | D<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 80 | 100 | **7.405.540** |
| 100 | 120 | **7.405.541** |
| 120 | 150 | **7.405.542** |
| 160 | 180 | **7.405.543** |
| 180 | 210 | **7.405.544** |
| 180 | 240 | **7.405.545** |
| 180 | 270 | **7.405.546** |
| 200 | 300 | **7.405.547** |

## Laboratory tongs
## *Pinces de laboratoire*

**Crucible Tongs,** made of stainless steel, or teflon coated or pure nickel, with ridges

***Pinces à creusets en acier inox,*** *ou revêtu de téflon ou en nickel, avec rainures*

| Material<br>*Matière* | A | a | d | D | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 160 | 85 | 18 | 4.0 | **7.410.000** |
| Stainl. steel E - polished<br>*acier inoxydabl électro-poli* | 200 | 95 | 20 | 4.5 | **7.410.001** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 220 | 100 | 20 | 4.5 | **7.410.002** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 250 | 115 | 30 | 4.5 | **7.410.003** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 300 | 145 | 30 | 5.0 | **7.410.004** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 400 | 175 | 35 | 6.0 | **7.410.005** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 500 | 225 | 35 | 6.0 | **7.410.006** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 600 | 270 | 40 | 8.0 | **7.410.007** |
| Stainless steel / *acier inoxydable* | 200 | 95 | 20 | 4.5 | **7.410.008** |
| Stainless steel / *acier inoxydable* | 220 | 100 | 20 | 4.5 | **7.410.009** |
| Stainless steel / *acier inoxydable* | 250 | 115 | 30 | 4.5 | **7.410.010** |
| Stainless steel / *acier inoxydable* | 300 | 145 | 30 | 5.0 | **7.410.011** |
| Teflon coating / *Recouvert de téflon* | 200 | 95 | 20 | 4.5 | **7.410.012** |
| Teflon coating / *Recouvert de téflon* | 250 | 115 | 30 | 4.5 | **7.410.013** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 200 | 95 | 20 | 4.5 | **7.410.014** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 220 | 100 | 20 | 4.5 | **7.410.015** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 250 | 115 | 30 | 4.5 | **7.410.016** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 300 | 145 | 30 | 5.0 | **7.410.017** |




**7.410.000**

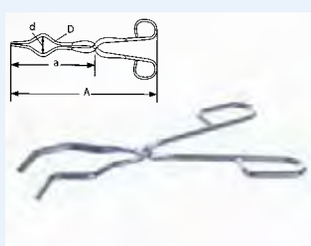


**7.410.012**

**Crucible Tongs,** heavy type

***Pinces à creusets,*** *modèles renforcés*

| Material<br>*Matière* | A | a | d | D | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 200 | 95 | 20 | 5.0 | **7.410.020** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 220 | 100 | 20 | 5.0 | **7.410.021** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 250 | 115 | 30 | 6.0 | **7.410.022** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 300 | 145 | 30 | 8.0 | **7.410.023** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 400 | 175 | 35 | 8.0 | **7.410.024** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 500 | 225 | 35 | 8.0 | **7.410.025** |
| Stainl. steel E - polished<br>*acier inoxydable électro-poli* | 600 | 270 | 40 | 8.0 | **7.410.026** |

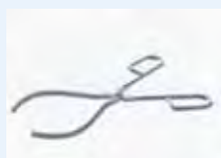



**7.410.020**

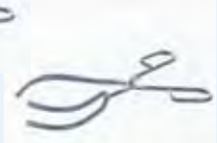
**Beaker tongs,** made of electro polished stainless steel with silicone tube

***Pinces à bécher,*** *en acier inoxydable électro-poli avec revêtement en silicone*

| Opening<br>*Serrage*<br>mm | Length<br>*Longueur*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|
| 55 - 100 | 250 | 1 | **7.410.030** |
| 25 - 100 | 250 | 2 | **7.410.031** |



**7.410.030**



**7.410.031**

# LABORATORY TONGS
## *PINCES DE LABORATOIRE*



7.410.040

**Beaker tongs,** made of electro polished stainless steel with plastic coated jaws

***Pinces à bécher,*** *en acier inoxydable électro-poli avec mâchoires revêtues de plastique*

| Opening<br>*Serrage*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 20 | 250 | **7.410.040** |
| 30 | 200 | **7.410.041** |
| 30 | 250 | **7.410.042** |
| 40 | 220 | **7.410.043** |
| 40 | 250 | **7.410.044** |
| 50 | 250 | **7.410.045** |
| 50 | 250 | **7.410.046** |
| 60 | 250 | **7.410.047** |
| 60 | 300 | **7.410.048** |



7.410.050

**Beaker tongs,** made of electro polished stainless steel with jaws insulated with ceramic

***Pinces à bécher,*** *en acier inoxydable électro-poli avec mâchoires revêtues de céramique*

| Opening<br>*Serrage*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 60 - 150 | 330 | **7.410.050** |
| 60 - 150 | 450 | **7.410.051** |

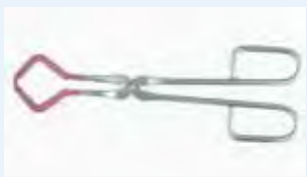


7.410.060

**Beaker tongs,** security model, with jaws silicone coated, for beaker up to 2000 ml

***Pinces à bécher,*** *de sécurité, avec bouts siliconés*

| Opening<br>*Serrage*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 32 - 140 | 300 | **7.410.060** |

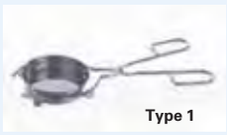


7.410.070

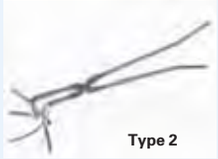
**Tongs for flask,** made of electro-polished stainless steel with polyamide coating

***Pinces à ballon,*** *en acier inoxydable électro-poli avec revêtement polyamide*

| Opening<br>*Serrage*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 15 - 60 | 220 | **7.410.070** |
| 15 - 60 | 250 | **7.410.071** |




7.410.080




7.410.081

**Tongs for dishes,** made of stainless steel

***Pinces à capsule d'évaporation,*** *en acier inoxydable*

**Type 1 =** for dish with flat bottom / *Pour capsule à fond plat*
**Type 2 =** for dish with round bottom / *Pour capsule à fond rond*

| A<br>mm | a<br>mm | d<br>mm | D<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 250 | 150 | 75/100 | 5.0 | 1 | **7.410.080** |
| 250 | 65 | 100/250 | 5.0 | 2 | **7.410.081** |



7.410.090

**Mercury (Hg) tong,** made of electro-polished stainless steel

***Pince à mercure (Hg),*** *en acier inoxydable électro-poli*

| A<br>mm | a<br>mm | D<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 220 | 120 | 6.0 | **7.410.090** |



7.410.100

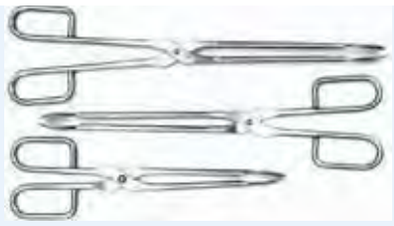
**Sodium (Na) tongs,** made of brass

***Pinces à sodium (Na),*** *en laiton*

| Bowl Ø<br>*Capsule Ø*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 20 | 250 | **7.410.100** |
| 20 | 350 | **7.410.101** |

**Sterilizing tongs,** made of stainless steel — ***Pinces pour stérilisation,*** *en acier inoxydable*

| Length<br>*Longueur*<br>mm | Straight<br>*Droite* | Curved<br>*Courbe* |
|---|---|---|
| 200 | **7.410.110** | **7.410.120** |
| 250 | **7.410.111** | **7.410.121** |
| 280 | **7.410.112** | **7.410.122** |



**7.410.110**

**Test tube tongs**
for tubes with Ø 10-25 mm

***Pinces à tube à essais***
*pour tubes de 10-25 mm*

**Type 1 =** made of nickered steel / *en acier nickelé*
**Type 2 =** made of stainless steel / *en acier inoxydable*
**Type 3 =** made of stainless steel with wooden handle
*en acier inoxydable avec manche en bois*

| Length<br>*Longueur*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|
| 130 | 1 | **7.410.130** |
| 150 | 2 | **7.410.131** |
| 250 | 3 | **7.410.132** |



**7.410.130**



**7.410.131**



**7.410.132**

**Test tube tongs,** made of wood — ***Pinces à tube à essais,*** *en bois*

| Opening<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 20 | **7.410.140** |
| 30 | **7.410.141** |



**7.410.140**

## Forceps
## *Pinces*

**Forceps** — ***Pinces brucelles***

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | | | |
|---|---|---|---|---|
| Stainless steel / *acier inoxydable* | 105 | **7.411.000** | **7.411.020** | **7.411.030** |
| Stainless steel / *acier inoxydable* | 115 | **7.411.001** | **7.411.021** | **7.411.031** |
| Stainless steel / *acier inoxydable* | 130 | **7.411.002** | **7.411.022** | **7.411.032** |
| Stainless steel / *acier inoxydable* | 145 | **7.411.003** | **7.411.023** | **7.411.033** |
| Stainless steel / *acier inoxydable* | 160 | **7.411.004** | **7.411.024** | **7.411.034** |
| Stainless steel / *acier inoxydable* | 200 | **7.411.005** | **7.411.025** | **7.411.035** |
| Stainless steel / *acier inoxydable* | 250 | **7.411.006** | - | - |
| Stainless steel / *acier inoxydable* | 300 | **7.411.007** | - | - |
| Teflon coating<br>*Recouvert de téflon* | 115 | **7.411.009** | - | - |
| Teflon coating<br>*Recouvert de téflon* | 130 | **7.411.010** | - | - |
| Teflon coating<br>*Recouvert de téflon* | 145 | **7.411.011** | - | - |



**7.411.000**



**7.411.020**



**7.411.030**

**Forceps,** with guide pin — ***Pinces*** *de dissection avec broche de guidage*

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | | |
|---|---|---|---|
| Stainless steel / *acier inoxydable* | 105 | **7.411.040** | **7.411.050** |
| Stainless steel / *acier inoxydable* | 115 | **7.411.041** | **7.411.051** |
| Stainless steel / *acier inoxydable* | 130 | **7.411.042** | **7.411.052** |
| Stainless steel / *acier inoxydable* | 145 | **7.411.043** | **7.411.053** |
| Teflon coating<br>*Recouvert de téflon* | 115 | **7.411.044** | **7.411.054** |
| Teflon coating<br>*Recouvert de téflon* | 130 | **7.411.045** | **7.411.055** |
| Teflon coating<br>*Recouvert de téflon* | 145 | **7.411.046** | **7.411.056** |



**7.411.040**



**7.411.050**



**7.411.054**

# FORCEPS
## *PINCES*



7.411.060




7.411.070




7.411.071




7.411.080 / 083



7.411.100



7.411.111



7.411.120




7.411.140




7.411.141



7.411.150



7.411.160

**Forceps,** with grips — ***Pinces** à dissection avec griffes*

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | |
|---|---|---|
| Stainless steel / *acier inoxydable* | 115 | 7.411.060 |
| Stainless steel / *acier inoxydable* | 130 | 7.411.061 |
| Stainless steel / *acier inoxydable* | 145 | 7.411.062 |
| Stainless steel / *acier inoxydable* | 160 | 7.411.063 |

**Forceps,** very sharp — ***Pinces** brucelles très pointues*

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | Type<br>*Type* | | Type<br>*Type* | |
|---|---|---|---|---|---|
| Stainless steel / *acier inoxydable* | 105 | 2 | 7.411.070 | 3 | 7.411.080 |
| Stainless steel / *acier inoxydable* | 120 | 1 | 7.411.071 | | - |
| Stainless steel / *acier inoxydable* | 130 | 1 | 7.411.072 | | - |
| Teflon coating<br>*Recouvert de téflon* | 105 | 2 | 7.411.073 | 4 | 7.411.083 |
| Teflon coating<br>*Recouvert de téflon* | 120 | 1 | 7.411.074 | | - |
| Teflon coating<br>*Recouvert de téflon* | 130 | 1 | 7.411.075 | | - |

**Forceps,** selftension, pointed — ***Pinces** brucelles autoserrantes, pointues*

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | | |
|---|---|---|---|
| Stainless steel / *acier inoxydable* | 105 | 7.411.100 | 7.411.110 |
| Stainless steel / *acier inoxydable* | 105 | - | 7.411.111 |

**Forceps,** for micro slides, flat-end 6 mm — ***Pinces** brucelles, pour lames microscpiques, embouts plats de 6 mm*

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | | |
|---|---|---|---|
| Stainless steel / *acier inoxydable* | 105 | 7.411.120 | 7.411.130 |
| Teflon coating<br>*Recouvert de téflon* | 105 | - | 7.411.131 |

**Forceps,** for filter membranes — ***Pinces** brucelles, pour membranes filtrantes*

**Type 1 =** 6 mm points / *bouts de 6 mm*
**Type 2 =** 12 mm points / *bouts de 12 mm*

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|
| Stainless steel / *acier inoxydable* | 105 | 1 | 7.411.140 |
| Stainless steel / *acier inoxydable* | 125 | 2 | 7.411.141 |

**Forceps,** for weights with plastic tips — ***Pince** brucelle, pour poids de pesée, bouts en plastique*

| Material<br>*Matière* | Length<br>*Longueur*<br>mm | |
|---|---|---|
| Stainless steel / *acier inoxydable* | 100 | 7.411.150 |

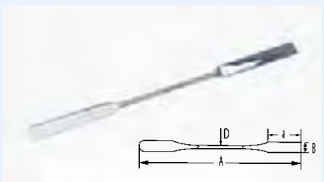
**Forceps,** made of Polyamide — ***Pince** brucelle, en polyamide*

| Length<br>*Longueur*<br>mm | |
|---|---|
| 130 | 7.411.160 |

## Spatulas
## Spatules

**Double spatulas,** with two flat ends — ***Spatules double,*** *à deux extrémités plates*

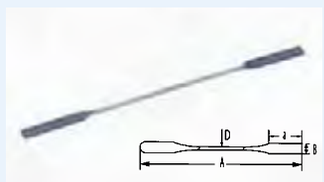
| Material<br>*Matière* | A | a | B | D | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 130 | 40 | 9 | 3.0 | **7.412.000** |
| Stainless steel / *acier inoxydable* | 150 | 45 | 9 | 3.5 | **7.412.001** |
| Stainless steel / *acier inoxydable* | 185 | 50 | 9 | 3.5 | **7.412.002** |
| Stainless steel / *acier inoxydable* | 210 | 60 | 11 | 4.0 | **7.412.003** |
| Stainless steel / *acier inoxydable* | 250 | 70 | 11 | 4.0 | **7.412.004** |
| Stainless steel / *acier inoxydable* | 300 | 75 | 16 | 6.0 | **7.412.005** |
| Stainless steel / *acier inoxydable* | 350 | 85 | 16 | 6.0 | **7.412.006** |
| Stainless steel / *acier inoxydable* | 400 | 100 | 16 | 6.0 | **7.412.007** |
| Stainless steel / *acier inoxydable* | 500 | 100 | 20 | 8.0 | **7.412.008** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 130 | 40 | 9 | 3.0 | **7.412.009** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 150 | 45 | 9 | 3.5 | **7.412.010** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 185 | 50 | 9 | 3.5 | **7.412.011** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 210 | 60 | 11 | 4.0 | **7.412.012** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 250 | 70 | 11 | 4.0 | **7.412.013** |
| Teflon coating / *Recouvert de téflon* | 150 | 45 | 9 | 3.5 | **7.412.014** |
| Teflon coating / *Recouvert de téflon* | 185 | 50 | 9 | 3.5 | **7.412.015** |
| Teflon coating / *Recouvert de téflon* | 210 | 60 | 11 | 4.0 | **7.412.016** |



**7.412.000**

**Double spatulas,** with two flat ends — ***Spatules double,*** *à deux extrémités plates*

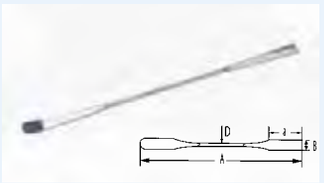
| Material<br>*Matière* | A | a | B | D | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel flexible<br>*acier inoxydable flexible* | 180 | 48 | 10 | 4.0 | **7.412.020** |
| Stainless steel flexible<br>*acier inoxydable flexible* | 210 | 48 | 10 | 4.0 | **7.412.021** |
| Stainless steel flexible<br>*acier inoxydable flexible* | 250 | 50 | 10 | 4.0 | **7.412.022** |
| Stainless steel flexible<br>*acier inoxydable flexible* | 210 | 52 | 20 | 5.5 | **7.412.023** |
| Stainless steel flexible<br>*acier inoxydable flexible* | 250 | 60 | 20 | 6.0 | **7.412.024** |
| Stainless steel flexible<br>*acier inoxydable flexible* | 300 | 65 | 22 | 6.0 | **7.412.025** |



**7.412.020**

**Double spatulas,** type Chattaway — ***Spatules double,*** *type Chattaway*

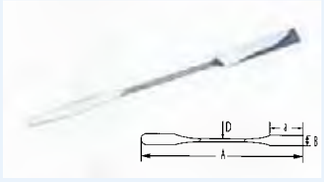
| Material<br>*Matière* | A | a | B | D | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 125 | 40 | 7 | 3.0 | **7.412.030** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 7 | 3.5 | **7.412.031** |
| Stainless steel / *acier inoxydable* | 180 | 50 | 8 | 3.5 | **7.412.032** |
| Stainless steel / *acier inoxydable* | 200 | 60 | 9 | 4.0 | **7.412.033** |
| Stainless steel / *acier inoxydable* | 235 | 70 | 10 | 4.0 | **7.412.034** |



**7.412.030**

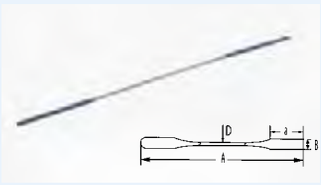
**Double spatulas,** one side tappered — ***Spatules double,*** *1 pointe conique*

| Material<br>*Matière* | A | a | B | D | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 210 | 50 | 7 | 2.5 | **7.412.040** |
| Stainless steel / *acier inoxydable* | 160 | 50 | 9 | 3.5 | **7.412.041** |
| Teflon coating / *Recouvert de téflon* | 210 | 50 | 7 | 2.5 | **7.412.042** |

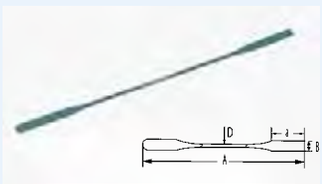


**7.412.040**

# SPATULAS
## *SPATULES*




**7.412.050**




**7.412.075**



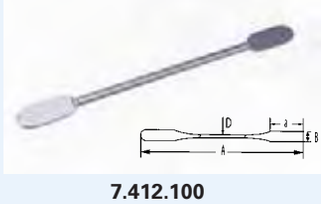
**7.412.090**



**7.412.091**



**7.412.092**




**7.412.100**

**Micro-spatulas,** with two flat ends — ***Micro-spatules,*** *à deux extrémités plates*

| Material / *Matière* | A | a | B | D | Order No. / *N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 100 | 30 | 2 | 1.0 | **7.412.050** |
| Stainless steel / *acier inoxydable* | 130 | 40 | 2 | 1.0 | **7.412.051** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 2 | 1.0 | **7.412.052** |
| Stainless steel / *acier inoxydable* | 100 | 35 | 3 | 1.5 | **7.412.053** |
| Stainless steel / *acier inoxydable* | 130 | 40 | 3 | 1.5 | **7.412.054** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 3 | 1.5 | **7.412.055** |
| Stainless steel / *acier inoxydable* | 100 | 35 | 4 | 2.0 | **7.412.056** |
| Stainless steel / *acier inoxydable* | 130 | 40 | 4 | 2.0 | **7.412.057** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 4 | 2.0 | **7.412.058** |
| Stainless steel / *acier inoxydable* | 185 | 50 | 4 | 2.0 | **7.412.059** |
| Stainless steel / *acier inoxydable* | 100 | 35 | 5 | 2.0 | **7.412.060** |
| Stainless steel / *acier inoxydable* | 130 | 40 | 5 | 2.0 | **7.412.061** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 5 | 2.0 | **7.412.062** |
| Stainless steel / *acier inoxydable* | 185 | 50 | 5 | 2.0 | **7.412.063** |
| Stainless steel / *acier inoxydable* | 210 | 55 | 5 | 2.0 | **7.412.064** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 6 | 2.0 | **7.412.065** |
| Stainless steel / *acier inoxydable* | 185 | 50 | 6 | 2.0 | **7.412.066** |
| Stainless steel / *acier inoxydable* | 210 | 55 | 6 | 2.0 | **7.412.067** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 9 | 3.0 | **7.412.068** |
| Stainless steel / *acier inoxydable* | 185 | 50 | 9 | 3.0 | **7.412.069** |
| Stainless steel / *acier inoxydable* | 210 | 55 | 9 | 3.0 | **7.412.070** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 100 | 35 | 4 | 2.0 | **7.412.071** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 130 | 40 | 4 | 2.0 | **7.412.072** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 185 | 50 | 5 | 2.0 | **7.412.073** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 210 | 55 | 6 | 2.0 | **7.412.074** |
| Teflon coating / *Recouvert de téflon* | 150 | 40 | 3 | 1.5 | **7.412.075** |
| Teflon coating / *Recouvert de téflon* | 185 | 50 | 4 | 2.0 | **7.412.076** |
| Teflon coating / *Recouvert de téflon* | 185 | 50 | 5 | 2.0 | **7.412.077** |
| Teflon coating / *Recouvert de téflon* | 210 | 55 | 6 | 2.0 | **7.412.078** |

**Cement spatulas** — ***Spatules de cimentier***

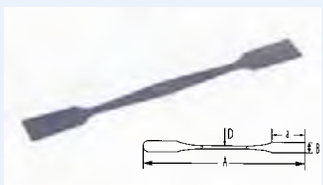
| Material / *Matière* | A | a | B | D | Order No. / *N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 150 | 35 | 6 | 5.0 | **7.412.090** |
| Stainless steel / *acier inoxydable* | 150 | 35 | 6 | 5.0 | **7.412.091** |
| Stainless steel / *acier inoxydable* | 150 | 35 | 6 | 5.0 | **7.412.092** |

**Mortar spatulas** — ***Spatules pour mortier***

| Material / *Matière* | A | a | B | D | Order No. / *N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 150 | 40 | 20 | 8.0 | **7.412.100** |
| Stainless steel / *acier inoxydable* | 200 | 40 | 20 | 8.0 | **7.412.101** |
| Stainless steel / *acier inoxydable* | 250 | 60 | 25 | 10.0 | **7.412.102** |
| Stainless steel / *acier inoxydable* | 300 | 60 | 25 | 10.0 | **7.412.103** |
| Stainless steel / *acier inoxydable* | 400 | 60 | 25 | 10.0 | **7.412.104** |

**Double spatulas,** flat type — ***Spatules double,*** *forme plates carrées*

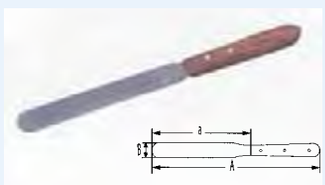
| Material *Matière* | A | a | B | D | Order No. *N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 90 | 20 | 15 | 1.0 | **7.412.110** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 120 | 30 | 15 | 1.0 | **7.412.111** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 150 | 32 | 18 | 1.0 | **7.412.112** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 180 | 34 | 18 | 1.0 | **7.412.113** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 210 | 36 | 18 | 1.0 | **7.412.114** |



**7.412.110**

**Spatulas,** with wooden handle — ***Spatules,*** *avec manches en bois*

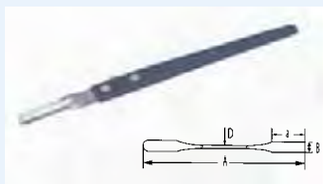
| Material *Matière* | A | a | B | Order No. *N° de code* |
|---|---|---|---|---|
| | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 165 | 75 | 14 | **7.412.120** |
| Stainless steel / *acier inoxydable* | 190 | 100 | 18 | **7.412.121** |
| Stainless steel / *acier inoxydable* | 230 | 130 | 20 | **7.412.122** |
| Stainless steel / *acier inoxydable* | 250 | 150 | 22 | **7.412.123** |
| Stainless steel / *acier inoxydable* | 275 | 165 | 27 | **7.412.124** |
| Stainless steel / *acier inoxydable* | 310 | 200 | 32 | **7.412.125** |
| Stainless steel / *acier inoxydable* | 365 | 250 | 38 | **7.412.126** |
| Stainless steel / *acier inoxydable* | 415 | 300 | 42 | **7.412.127** |
| Teflon coating / *Recouvert de téflon* | 230 | 130 | 20 | **7.412.128** |



**7.412.120**

**Vibro spatula** — ***Spatule vibrante à molette***

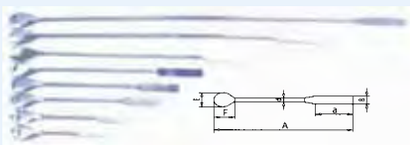
| Material *Matière* | A | a | B | Order No. *N° de code* |
|---|---|---|---|---|
| | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 190 | 50 | 12 | **7.412.140** |



**7.412.140**

**Double Spatulas,** with spoon and with flat spatula blade — ***Spatules double,*** *à extrémité cuillière et extrémité plate*

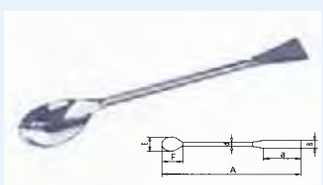
| Material *Matière* | A | a | B | F x E | Order No. *N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 130 | 40 | 10 | 38 x 17 | **7.412.150** |
| Stainless steel / *acier inoxydable* | 150 | 45 | 10 | 38 x 17 | **7.412.151** |
| Stainless steel / *acier inoxydable* | 180 | 50 | 10 | 38 x 17 | **7.412.152** |
| Stainless steel / *acier inoxydable* | 210 | 50 | 10 | 38 x 17 | **7.412.153** |
| Stainless steel / *acier inoxydable* | 235 | 50 | 10 | 38 x 17 | **7.412.154** |
| Stainless steel / *acier inoxydable* | 300 | 70 | 10 | 38 x 17 | **7.412.155** |
| Stainless steel / *acier inoxydable* | 400 | 70 | 10 | 38 x 17 | **7.412.156** |
| Stainless steel / *acier inoxydable* | 500 | 70 | 10 | 38 x 17 | **7.412.157** |



**7.412.150**

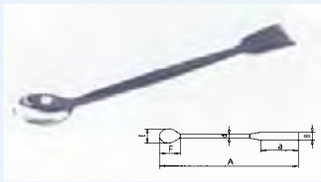
**Poly spoons** — ***Spatules,*** *type labo-verseuse*

| Material *Matière* | A | a | B | d | F x E | Order No. *N° de code* |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 150 | 30 | 13 | 5.0 | 35 x 15 | **7.412.160** |
| Stainless steel / *acier inoxydable* | 180 | 30 | 13 | 5.0 | 35 x 15 | **7.412.161** |
| Stainless steel / *acier inoxydable* | 210 | 30 | 13 | 5.0 | 35 x 15 | **7.412.162** |
| Stainless steel / *acier inoxydable* | 250 | 30 | 13 | 5.0 | 35 x 15 | **7.412.163** |
| Stainless steel / *acier inoxydable* | 300 | 30 | 13 | 5.0 | 35 x 15 | **7.412.164** |
| Stainless steel / *acier inoxydable* | 210 | 35 | 20 | 8.0 | 65 x 28 | **7.412.165** |
| Stainless steel / *acier inoxydable* | 250 | 35 | 20 | 8.0 | 65 x 28 | **7.412.166** |
| Stainless steel / *acier inoxydable* | 300 | 35 | 20 | 8.0 | 65 x 28 | **7.412.167** |
| Stainless steel / *acier inoxydable* | 400 | 35 | 20 | 8.0 | 65 x 28 | **7.412.168** |
| Stainless steel / *acier inoxydable* | 500 | 35 | 20 | 8.0 | 65 x 28 | **7.412.169** |
| Stainless steel / *acier inoxydable* | 190 | 26 | 22 | 13.0 | 20 x 13 | **7.412.170** |



**7.412.160**

# SPATULAS
*SPATULES*

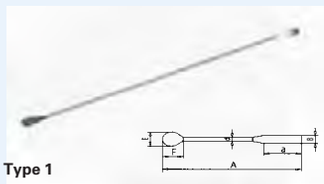


7.412.180

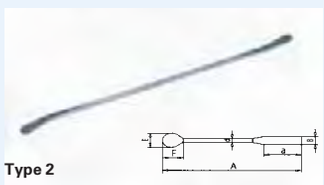
## Chemical spoons

***Cuillères,** à spatule pour produits chimiques*

| Material<br>*Matière* | A | a | B | d | F x E | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 120 | 30 | 20 | 1.0 | 31 x 23 | **7.412.180** |
| Stainless steel / *acier inoxydable* | 150 | 32 | 22 | 1.0 | 38 x 27 | **7.412.181** |
| Stainless steel / *acier inoxydable* | 180 | 32 | 22 | 1.0 | 40 x 28 | **7.412.182** |
| Stainless steel / *acier inoxydable* | 210 | 32 | 22 | 1.0 | 40 x 28 | **7.412.183** |
| Stainless steel / *acier inoxydable* | 250 | 45 | 32 | 1.0 | 50 x 35 | **7.412.184** |
| Stainless steel / *acier inoxydable* | 300 | 50 | 37 | 1.0 | 55 x 41 | **7.412.185** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 120 | 30 | 20 | 1.0 | 31 x 23 | **7.412.186** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 150 | 32 | 22 | 1.0 | 38 x 27 | **7.412.187** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 180 | 32 | 22 | 1.0 | 40 x 28 | **7.412.188** |
| Pure nickel 99.5 % / *Nickel pur 99.5 %* | 210 | 32 | 22 | 1.0 | 40 x 28 | **7.412.189** |
| Teflon coating / *Recouvert de téflon* | 180 | 32 | 22 | 1.0 | 40 x 28 | **7.412.190** |




7.412.200



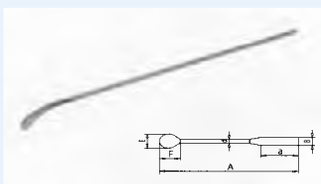

7.412.206

## Double spatulas, spoon shape

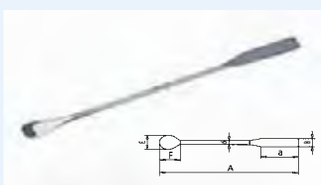
***Spatules double,** forme cuillère*

**Type 1 =** Microspoon / *forme cuillères micro*
**Type 2 =** Microscoop / *forme pelle micro*

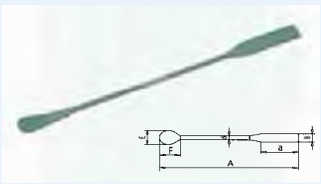
| Material<br>*Matière* | A | a | B | d | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | | |
| Stainless steel / *acier inoxydable* | 130 | 10 | 5 | 2.0 | 1 | **7.412.200** |
| Stainless steel / *acier inoxydable* | 185 | 10 | 5 | 2.0 | 1 | **7.412.201** |
| Stainless steel / *acier inoxydable* | 210 | 12 | 5 | 2.0 | 1 | **7.412.202** |
| Stainless steel / *acier inoxydable* | 150 | 15 | 7 | 2.5 | 1 | **7.412.203** |
| Stainless steel / *acier inoxydable* | 200 | 17 | 7 | 2.5 | 1 | **7.412.204** |
| Stainless steel / *acier inoxydable* | 250 | 20 | 7 | 2.5 | 1 | **7.412.205** |
| Stainless steel / *acier inoxydable* | 180 | 25 | 7 | 3.0 | 2 | **7.412.206** |
| Stainless steel / *acier inoxydable* | 210 | 25 | 12 | 4.0 | 2 | **7.412.207** |



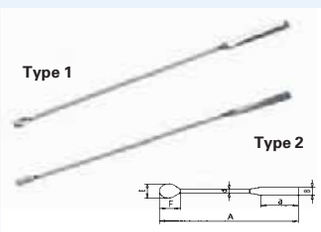
7.412.210



7.412.220



7.412.226




7.412.24*

## Spatulas, spoon shape

***Spatules,** forme cuillère*

| Material<br>*Matière* | A | d | F x E | Order No.<br>*N° de code* |
|---|---|---|---|---|
| | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 130 | 2.0 | 10 x 5 | **7.412.210** |
| Stainless steel / *acier inoxydable* | 185 | 2.0 | 10 x 5 | **7.412.211** |
| Stainless steel / *acier inoxydable* | 210 | 2.0 | 10 x 5 | **7.412.212** |
| Stainless steel / *acier inoxydable* | 180 | 3.0 | 25 x 8 | **7.412.213** |
| Stainless steel / *acier inoxydable* | 210 | 4.0 | 25 x 12 | **7.412.214** |

## Spatulas, spoon shape

***Spatules double,** à extrémité cuillère et extrémité plate*

| Material<br>*Matière* | A | d | F x E | Order No.<br>*N° de code* |
|---|---|---|---|---|
| | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 180 | 3.0 | 25 x 8 | **7.412.220** |
| Stainless steel / *acier inoxydable* | 210 | 4.0 | 25 x 12 | **7.412.221** |
| Stainless steel / *acier inoxydable* | 280 | 4.0 | 25 x 12 | **7.412.222** |
| Stainless steel / *acier inoxydable* | 130 | 2.0 | 10 x 58 | **7.412.223** |
| Stainless steel / *acier inoxydable* | 185 | 2.0 | 10 x 5 | **7.412.224** |
| Stainless steel / *acier inoxydable* | 210 | 2.0 | 12 x 5 | **7.412.225** |
| Teflon coating / *Recouvert de téflon* | 180 | 3.0 | 25 x 8 | **7.412.226** |
| Teflon coating / *Recouvert de téflon* | 210 | 4.0 | 25 x 12 | **7.412.227** |
| Teflon coating / *Recouvert de téflon* | 280 | 4.0 | 25 x 12 | **7.412.228** |

## Micro spoons

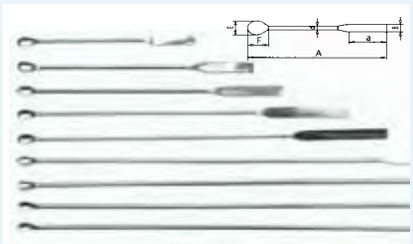
***Micro spatules,** à cuillère*

| Material<br>*Matière* | A | a | B | d | F x E | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|---|
| | mm | | | mm | mm | | |
| Stainless steel / *acier inoxydable* | 150 | 40 | 5 | 2.5 | 9 x 5 | 1 | **7.412.240** |
| Stainless steel / *acier inoxydable* | 180 | 40 | 5 | 2.5 | 9 x 5 | 1 | **7.412.241** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 5 | 2.0 | 7 x 5 | 1 | **7.412.242** |
| Stainless steel / *acier inoxydable* | 150 | 45 | 5 | 1.5 | 6 x 4 | 1 | **7.412.243** |
| Stainless steel / *acier inoxydable* | 150 | 45 | 5 | 1.5 | 5 x 3 | 1 | **7.412.244** |
| Stainless steel / *acier inoxydable* | 200 | 45 | 5 | 2.5 | 9 x 5 | 1 | **7.412.245** |
| Stainless steel / *acier inoxydable* | 150 | 40 | 5 | 2.0 | 9 x 5 | 2 | **7.412.246** |
| Stainless steel / *acier inoxydable* | 180 | 40 | 5 | 2.0 | 9 x 5 | 2 | **7.412.247** |

**Micro spoons,** with spoon and spatula blade

***Micro-spatules double,*** *à extrémité cuillière et extrémité plate*

| Material<br>*Matière* | A | a | B | F x E | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | |
| Stainless steel / *acier inoxydable* | 100 | 30 | 6 | 9 x 5 | **7.412.250** |
| Stainless steel / *acier inoxydable* | 130 | 40 | 6 | 9 x 5 | **7.412.251** |
| Stainless steel / *acier inoxydable* | 150 | 45 | 6 | 9 x 5 | **7.412.252** |
| Stainless steel / *acier inoxydable* | 150 | 45 | 7 | 10 x 7 | **7.412.253** |
| Stainless steel / *acier inoxydable* | 185 | 50 | 6 | 9 x 5 | **7.412.254** |
| Stainless steel / *acier inoxydable* | 185 | 50 | 7 | 10 x 7 | **7.412.255** |
| Stainless steel / *acier inoxydable* | 210 | 55 | 6 | 9 x 5 | **7.412.256** |
| Stainless steel / *acier inoxydable* | 210 | 55 | 7 | 10 x 7 | **7.412.257** |
| Stainless steel / *acier inoxydable* | 250 | 55 | 6 | 9 x 5 | **7.412.258** |
| Stainless steel / *acier inoxydable* | 300 | 55 | 6 | 9 x 5 | **7.412.259** |
| Stainless steel / *acier inoxydable* | 350 | 55 | 6 | 9 x 5 | **7.412.260** |
| Stainless steel / *acier inoxydable* | 400 | 55 | 6 | 9 x 5 | **7.412.261** |

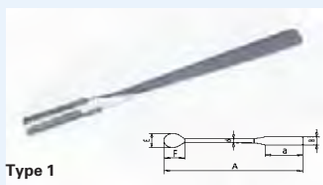


**7.412.250**

**Laboratory spoons**

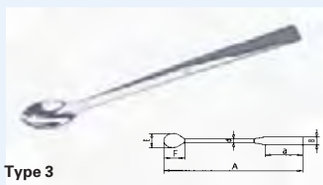
***Cuillères de laboratoire***

| Material<br>*Matière* | A | d | F x E | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| | mm | mm | mm | | |
| Stainless steel / *acier inoxydable* | 170 | 1.0 | 40 x 10 | 1 | **7.412.270** |
| Stainless steel / *acier inoxydable* | 200 | 2.0 | 30 x 16 | 2 | **7.412.271** |
| Stainless steel / *acier inoxydable* | 150 | 1.0 | 30 x 15 | 3 | **7.412.272** |
| Stainless steel / *acier inoxydable* | 150 | 1.0 | 20 x 10 | 3 | **7.412.273** |
| Stainless steel / *acier inoxydable* | 150 | 10.0 | 45 x 48 | 4 | **7.412.274** |
| Stainless steel / *acier inoxydable* | 200 | 10.0 | 60 x 35 | 4 | **7.412.275** |
| Stainless steel / *acier inoxydable* | 240 | 10.0 | 75 x 43 | 4 | **7.412.276** |
| Stainless steel / *acier inoxydable* | 280 | 10.0 | 90 x 50 | 4 | **7.412.277** |
| Stainless steel / *acier inoxydable* | 320 | 10.0 | 105 x 45 | 4 | **7.412.278** |
| Stainless steel / *acier inoxydable* | 105 | 10.0 | 40 x 23 | 5 | **7.412.279** |
| Stainless steel / *acier inoxydable* | 135 | 10.0 | 45 x 27 | 5 | **7.412.280** |
| Stainless steel / *acier inoxydable* | 180 | 10.0 | 55 x 40 | 5 | **7.412.281** |
| Stainless steel / *acier inoxydable* | 210 | 10.0 | 60 x 45 | 5 | **7.412.282** |
| Stainless steel / *acier inoxydable* | 280 | 10.0 | 80 x 70 | 5 | **7.412.283** |



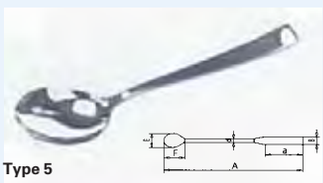
Type 1

**7.412.270**



Type 3

**7.412.272**



Type 5

**7.412.279**

**Measure spoons,** set of 4

***Cuillères jaugées,*** *jeu de 4*

| Material<br>*Matière* | Spoon capacity<br>*Capacité de cullieres*<br>ml | Order No.<br>*N° de code* |
|---|---|---|
| Stainless steel / *acier inoxydable* | 1 / 2.5 / 5 / 15 | **7.412.300** |



**7.412.300**

## Scissors
## *Ciseaux*




7.413.000

**Laboratory scissors,** with plastic grip — ***Ciseaux de laboratoire,*** *à oeillets plastifiés*

| Material<br>*Matière* | A<br>mm | a<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Stainless steel / *acier inoxydable* | 130 | 50 | 2 | **7.413.000** |
| Stainless steel / *acier inoxydable* | 150 | 70 | 2 | **7.413.001** |
| Stainless steel / *acier inoxydable* | 200 | 100 | 2 | **7.413.002** |
| Stainless steel / *acier inoxydable* | 250 | 120 | 2 | **7.413.003** |




7.413.010

**Laboratory scissors** — ***Ciseaux de laboratoire***

| Material<br>*Matière* | A<br>mm | a<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Stainless steel / *acier inoxydable* | 100 | 30 | 2 | **7.413.010** |
| Stainless steel / *acier inoxydable* | 115 | 45 | 2 | **7.413.011** |
| Stainless steel / *acier inoxydable* | 130 | 50 | 2 | **7.413.012** |
| Stainless steel / *acier inoxydable* | 145 | 60 | 2 | **7.413.013** |
| Stainless steel / *acier inoxydable* | 150 | 60 | 2 | **7.413.014** |
| Stainless steel / *acier inoxydable* | 165 | 70 | 2 | **7.413.015** |
| Stainless steel / *acier inoxydable* | 180 | 80 | 2 | **7.413.016** |




7.413.020

**Laboratory scissors,** for microscopy — ***Ciseaux de laboratoire,*** *pour microscopie*

| Material<br>*Matière* | A<br>mm | a<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Stainless steel / *acier inoxydable* straight /*droit* | 100 | 25 | 3 | **7.413.020** |
| Stainless steel / *acier inoxydable* bent /*courbe* | 100 | 30 | 3 | **7.413.021** |
| Stainless steel / *acier inoxydable* straight /*droit* | 215 | 35 | 3 | **7.413.022** |




7.413.022




7.413.030

**Laboratory scissor,** with stopper lifter — ***Ciseaux de laboratoire,*** *avec relève bouchon*

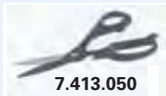
| Material<br>*Matière* | A<br>mm | a<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Stainless steel / *acier inoxydable* | 150 | 65 | 2 | **7.413.030** |



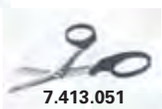

7.413.040

**Paper scissors** — ***Ciseaux à papier***

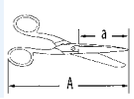
| Material<br>*Matière* | A<br>mm | a<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| Stainless steel / *acier inoxydable* | 175 | 80 | 3 | **7.413.040** |
| Stainless steel / *acier inoxydable* | 200 | 95 | 3 | **7.413.041** |
| Stainless steel / *acier inoxydable* | 225 | 110 | 3 | **7.413.042** |
| Stainless steel / *acier inoxydable* | 250 | 135 | 3 | **7.413.043** |
| Stainless steel / *acier inoxydable* | 275 | 150 | 3 | **7.413.044** |
| Stainless steel / *acier inoxydable* | 300 | 170 | 3 | **7.413.045** |

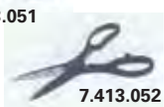


7.413.050



7.413.051



7.413.052

**Universal scissors,** with plastic handle, up to 145 °C temperature resistant — ***Ciseaux universels,*** *avec yeux plastiques, jusqu'à 145 °C max. résistant*

| Material<br>*Matière* | A<br>mm | a<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| Stainless steel / *acier inoxydable* | 200 | 70 | **7.413.050** |
| Stainless steel / *acier inoxydable* | 180 | 60 | **7.413.051** |
| Stainless steel / *acier inoxydable* | 320 | 70 | **7.413.052** |

**Universal scissors,** with plastic handle

***Ciseaux universels,*** *avec manches en plastique*

| Material<br>*Matière* | A<br>mm | a<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| Stainless steel / *acier inoxydable* | 190 | 40 | **7.413.060** |




**7.413.060**

## Knifes
## *Couteaux*

**Scalpel handles,** made of stainless steel for interchangeable blades

***Manches de bistouri,*** *en acier inoxydable pour lames interchangeables*

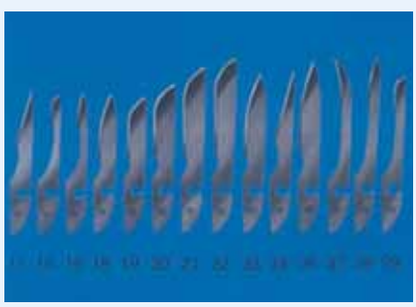
| Length<br>*Longueur*<br>mm | Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|---|
| 130 | 2 | **7.413.100** |
| 160 | 4 | **7.413.105** |



**Blades,** for scalpel handle with Order No. 7.413.100 and 7.413.105, pack of 12 pcs.

***Lames de bistouri,*** *pour N° de code 7.413.100 et 7.413.105, en paquet de 12 pcs.*

| Type<br>*Type* | Non-steril<br>*Non-stérile* | Steril<br>*Stérile* |
|---|---|---|
| 11 | - | **7.413.130** |
| 15 | **7.413.111** | **7.413.131** |
| 16 | - | **7.413.132** |
| 18 | **7.413.113** | **7.413.133** |
| 19 | **7.413.114** | **7.413.134** |
| 20 | - | **7.413.135** |
| 22 | **7.413.116** | **7.413.136** |
| 23 | - | **7.413.137** |
| 24 | **7.413.118** | **7.413.138** |
| 26 | - | **7.413.139** |
| 27 | - | **7.413.140** |
| 28 | **7.413.121** | **7.413.141** |
| 29 | - | **7.413.142** |



**Precision knife,** made of aluminium with 6 interchangeable blades, set supplied in box

***Couteau de précision,*** *en aluminium avec 6 lames interchangeables, jeu livré dans un écrin*

| Length x Ø<br>*Longueur x Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 120 x 7 | **7.413.170** |
| | |
| **Spare parts /** *Pièces de rechange* | |
| Set of 5 spare blades / *Jeu de 5 lames de rechange* | **7.413.175** |



**7.413.170**

**Laboratory knife,** with wooden handle

***Couteau de laboratoire,*** *avec manche en bois*

| Material<br>*Matière* | A<br>mm | a<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| Stainless steel / *acier inoxydable* | 180 | 85 | **7.413.190** |



**7.413.190**



7.414.000

**Glass-tube-cutter,** complete with hard metal wheel

***Coupe-verre,** complet avec roulette en carbure*

| **For max. tube Ø**<br>***Pour tube Ø***<br>**mm** | **Order No.**<br>***N° de code*** |
|---|---|
| 40 | **7.414.000** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Spare hard metal wheel / *Roulette en carbure de rechange 40 x 18mm* | **7.414.005** |



7.414.010

**Glass-cutter,** complete with hard metal blade 40 x 18 mm

***Coupe-verre,** complet avec lame en carbure de 40 x 18 mm*

| **Length x Ø**<br>***Longueur x Ø***<br>**mm** | **Order No.**<br>***N° de code*** |
|---|---|
| Handle / *Manche* 180 mm | **7.414.010** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Spare hard metal blade 40 x 18mm / *Lame en carbure de rechange 40 x 18mm* | **7.414.015** |



7.414.020

**Diamond pencil**

***Marqueur à pointe de diamant***

| | **Order No.**<br>***N° de code*** |
|---|---|
| | **7.414.020** |



7.414.030

**Scriber,** for writing on glass or porcelain, with a hardmetal tip

***Stylo-marqueur à pointe de diamant***

| | **Order No.**<br>***N° de code*** |
|---|---|
| | **7.414.030** |



7.414.040

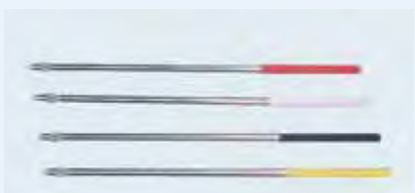
**Vibroscript,** to engrave, with hardmetal tip

***Graveur Vibroscript,** pour inscription sur vereou métal, avec pointe en carbure*

| | **Order No.**<br>***N° de code*** |
|---|---|
| | **7.414.040** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Spare tip made of hardmetal / *Pointe de remplacement en carbure* | **7.414.045** |
| Spare tip made of diamond / *Pointe de remplacement en diamant* | **7.414.046** |



7.414.1**

**Needle holder acc. to Kolle,** for inoculating needles, coloured, total length 245 mm

***Porte-aiguille selon Kolle,** pour fils d'ensemencement, avec code couleur, longueur totale 245 mm*

| **Colour**<br>***Couleur*** | **Order No.**<br>***N° de code*** |
|---|---|
| | **7.414.100** |
| | **7.414.101** |
| | **7.414.102** |
| | **7.414.103** |
| | **7.414.104** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Rectangular rack for 6 inoculating loop-holders, made of autoclavable plastic material. Dimensions: 180 x 50 x 50mm<br>*Portoir rectangulaire en plastique autoclavable pour 6 porte-aiguilles. Dimensions: 180 x 50 x 50 mm* | **7.414.110** |
| Round rack for 6 inoculating loop-holders, made of autoclavable plastic material. Dimensions: Dia. 80 x H 50 mm<br>*Portoir circulaire en plastique autoclavable pour 6 porte-aiguilles. Dimensions: Dia. 80 x H 50 mm* | **7.414.111** |

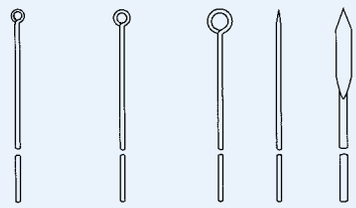


7.414.110 / 7.414.111

**Dissecting and inoculating needles,** made of stainless steel, for use with needle holder Kolle

***Anses d'encemencement et aiguilles de dissection,*** *en acier inoxydable, pour porte-aiguille de Kolle*

| Length<br>*Longueur*<br>mm | Ø<br>*Ø*<br>mm | Shape<br>*Forme* | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 1.0 | Loop / *Oeillet* | 7.414.120 |
| 50 | 1.5 | Loop / *Oeillet* | 7.414.121 |
| 50 | 2.5 | Loop / *Oeillet* | 7.414.122 |
| 50 | 3.0 | Loop / *Oeillet* | 7.414.123 |
| 50 | 4.0 | Loop / *Oeillet* | 7.414.124 |
| 50 | 5.0 | Loop / *Oeillet* | 7.414.125 |
| 60 | 1.5 | Loop / *Oeillet* | 7.414.130 |
| 60 | 2.5 | Loop / *Oeillet* | 7.414.131 |
| 60 | 4.0 | Loop / *Oeillet* | 7.414.132 |
| 100 | 1.5 | Loop / *Oeillet* | 7.414.140 |
| 100 | 2.5 | Loop / *Oeillet* | 7.414.141 |
| 100 | 4.0 | Loop / *Oeillet* | 7.414.142 |
| 50 | - | Needle straight / *Aiguille droite* | 7.414.150 |
| 50 | - | Needle bent/ *Aiguille courbe* | 7.414.151 |
| 100 | - | Needle straight / *Aiguille droite* | 7.414.160 |
| 100 | - | Lancet / *Lancette* | 7.414.161 |



**Inoculating loops,** made of 1mm platinum wire, for use with needle holder Kolle

***Anses d'encemencement,*** *en fil deplatine de 1 mm, pour porte-aiguille de Kolle*

| Length<br>*Longueur*<br>mm | Ø<br>*Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 1.0 | 7.414.170 |
| 60 | 2.0 | 7.414.171 |
| 60 | 3.0 | 7.414.172 |
| 60 | 4.0 | 7.414.173 |
| 60 | 5.0 | 7.414.174 |
| 60 | 6.0 | 7.414.175 |



**Dissecting needles,** available with plastic or with stainless steel (18/8) handle

***Aiguilles de dissection,*** *livrables avec manche en plastique ou en acier inoxydable (18/8)*

| Length<br>*Longueur*<br>mm | Shape<br>*Forme* | Plastic handle<br>*Manche en plastique* | 18/8 handle<br>*Manche en acier inox* |
|---|---|---|---|
| 140 | Straight / *Droite* | 7.414.180 | 7.414.190 |
| 140 | Bent / *Courbé* | 7.414.181 | 7.414.191 |
| 140 | Lancet / *Lancette* | 7.414.182 | 7.414.192 |



**7.414.18*** **7.414.19***

**Dissecting kit, 8 pcs.**
1 Scissor, sharp
1 Dressing scissor
1 Scalpel 35 mm
1 Scalpel 45 mm
1 Forcep, blunt
1 Forcep, sharp
1 Dissecting needle
1 Lancet

***Trousse à dissection, 8 pcs.***
*1 Ciseaux fins*
*1 ciseaux à dissection*
*1 Scalpel lame 35 mm*
*1 Scalpel lame 45 mm*
*1 Pince bouts arrondis*
*1 Pince à dissection*
*1 Aiguille à dissection*
*1 Lancette*

| Order No.<br>*N° de code* |
|---|
| 7.414.200 |



**7.414.200**

**Spatulas acc. to Drigalski,** disposable, made of plastic (ABS), sterile, standard pack of 10 pcs.

***Spatules de Drigalski,*** *à usage unique, en plastique (ABS), stériles, conditionnement de 10 pièces*

| Shape<br>*Forme* | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| L | 146 x 38, Ø 4 mm | 7.414.250 |
| Triangle | 172 x 37mm, 14 mm | 7.414.251 |



**7.414.25***



7.414.26*

**Spatulas acc. to Drigalski,** made of stainless steel or glass

***Spatules de Drigalski,*** *en acier inoxydable ou en verre*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Material<br>*Matière* | Order No.<br>*N° de code* |
|---|---|---|---|
| 1 | 165 x 30, Ø 2 mm | Stainless steel / *acier inoxydable* | **7.414.260** |
| 2 | 195 x 40, Ø 4 mm | Stainless steel / *acier inoxydable* | **7.414.261** |
| 3 | 165 x 30, Ø 2 mm | Stainless steel / *acier inoxydable* | **7.414.262** |
| 4 | 195 x 40, Ø 4 mm | Stainless steel / *acier inoxydable* | **7.414.263** |
| 5 | 200 x 45, Ø 4 mm | Glass / *verre* | **7.414.264** |



7.414.3**

**Cork borers with handle,** made of brass, supplied in set

***Perce-bouchons avec poignée,*** *en laiton, livrés en jeu*

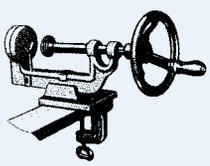
| Set of<br>pcs. | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 3 | 5.0 - 6.25 - 7.5 | **7.414.300** |
| 6 | 5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 | **7.414.301** |
| 9 | 5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 - 12.5 - 13.75 - 15.0 | **7.414.302** |
| 12 | 5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 - 12.5 - 13.75 - 15.0<br>16.25 - 17.5 - 18.75 | **7.414.303** |
| 15 | 5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 - 12.5 - 13.75 - 15.0<br>16.25 - 17.5 - 18.75 - 20.0 - 21.25 - 22.5 | **7.414.304** |
| 18 | 5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 - 12.5 - 13.75 - 15.0<br>16.25 - 17.5 - 18.75 - 20.0 - 21.25 - 22.5 - 23.75 - 25.0 - 26.25 | **7.414.305** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Cork borer sharpener, 5 - 26 mm / *Affûteur pour perce bouchon, 5 - 26 mm* | **7.414.310** |



7.414.310



7.414.350



7.414.355

**Cork borer,** to screw on the table, for horizontal and vertical use

***Perce-bouchons manuel de table*** *pour utilisation en position horizontale ou verticale*

| | Order No.<br>*N° de code* |
|---|---|
| Corkborer alone / *Perce-bouchon, seul* | **7.414.350** |
| Complete with 15 cork borers / *Complet avec 15 perce bouchons* | **7.414.351** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Set of 12 cork borers made of steel, polished<br>*Jeu de 12 perceurs en acier poli*<br>5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 - 12.5 - 13.75 - 15.0<br>16.25 - 17.5 - 18.75 | **7.414.355** |
| Set of 15 cork borers made of steel, polished<br>*Jeu de 15 perceurs en acier poli*<br>5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 - 12.5 - 13.75 - 15.0<br>16.25 - 17.5 - 18.75 - 20.0 - 21.25 - 22.5 | **7.414.356** |
| Set of 18 cork borers made of steel, polished<br>*Jeu de 18 perceurs en acier poli*<br>5.0 - 6.25 - 7.5 - 8.75 - 10.0 - 11.25 - 12.5 - 13.75 - 15.0<br>16.25 - 17.5 - 18.75 - 20.0 - 21.25 - 22.5 - 23.75 - 25.0 - 26.25 | **7.414.357** |



7.414.360

**Cork cutting knife,** with wooden handle

***Couteau pour bouchon,*** *avec manche en bois*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.414.360** |

## Lab markers
*Stylo marqueurs*

**Lab markers with extra fine tip,** ideal for histology and cytology used on cold and wet surfaces, tape, plastic, glass, metal porcelain, foam and much more. Ultra permanent ink that resists solvents such as xylene, alcohol, acetone, formalin. extra fine tip, width 0.2 mm. does not work in chloroform baths

***Stylo-marqueurs à pointe extra-fine 0.2 mm,*** *pour écrire sur les surfaces froides et humides en histologie et en cytologie, tels que rubans, plastiques, verres, métaux, porcelaines et autres matériaux. Encre ultra-permanente résistante au xylène, alcool, acétone. A ne pas utiliser dans les bains de chloroforme*

| Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|
| ● | 7.414.410 |
| ● | 7.414.411 |



7.414.410

**Paint Markers,** dispense a fast-drying, high-gloss enamel paint for permanent marking, lettering, coding and numbering of both interior and exterior surfaces. For writing on almost anything: metal, plastic, printed circuit boards, glass, wood, paper, leather, textiles, on any surface: porous or non-porous; rough or smooth; wet, oily or dry. Available in 7 bright, high-gloss, Long-lasting replaceable fiber tips allow full use of the marker

***Marqueurs à encre*** *pour marquage permanent et pour écrire sur les métaux, les plastiques, les circuits imprimés, le verre, le bois, le papier, le cuir, les textiles et sur des surfaces poreuses ou non-poreuses, lisse ou rugueuse, humide ou sèche ou graisseuse. 7 colours au choix. Pointe en fibres interchangeable*

| Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|
| ● | 7.414.430 |
| ● | 7.414.431 |
| ● | 7.414.432 |
| ● | 7.414.433 |
| ● | 7.414.434 |
| ● | 7.414.435 |
| ● | 7.414.436 |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Replacement Tips, pack of 10 pcs. / *Pointes de rechange, paquet de 10 pcs.* | 7.414.437 |



7.414.430

**Ball Point Paint Marker,** for marking all materials like plastics, rubber, cloth, metal, and especially glass. Autoclavable and dishwasher-proof. Fast drying ink resists chemicals to a large extent. Marker features ball point-type writing tip (no felt pen) and a pumping device on its rear-end for ink delivery to the tip. Available in 2 line widths and 5 colours

***Stylo-marqueurs à pointe à bille,*** *pour écrire sur tout type de matériaux tels que le verre, le plastique, le métal, le tissu et autres, indélébile. Sèchage rapide de l'encre adhérente, bonne résistance aux agents chimiques. Système de transmission d'encre à la pointe. Disponibles en 5 couleurs et à 2 largeurs d'écriture*

| Colour<br>*Couleur* | Width<br>*Largeur*<br>1 mm | Width<br>*Largeur*<br>3 mm |
|---|---|---|
| ● | 7.414.440 | 7.414.450 |
| ● | 7.414.441 | 7.414.451 |
| ● | 7.414.442 | 7.414.452 |
| ● | 7.414.443 | 7.414.453 |
| ● | 7.414.444 | 7.414.454 |





7.414.46*



**Cryo-markers,** to write on cryotubes, boxes and all kind of dishes also at low temperatures

***Marqueurs cryogéniques,*** *pour écrire sur les cryotubes, boites et récipients à de basses températures*

| Colour<br>*Couleur* | Width<br>*Largeur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| ● | 2 | **7.414.460** |
| ● | 2 | **7.414.461** |
| Set of 4 markers ● ● ● ●<br>*Jeu de 4 marqueurs* | 2 | **7.414.465** |

**Marker for wet surfaces,** e.g. on Western blots or similars products

***Marqueur pour surfaces humides,*** *par ex. les blottages ou autres produits similaires*

| Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|
| ● | **7.414.470** |



**Label strips and dots for micro-tubes,** cryovials, chromatography samples or other small-volume tubes. Temperature range: -20 °C to + 80 °C. Writing-on is possible with all kinds of pens.

Strips: yellow, in dispenser box of 1000 pcs.

Dots on roll: 1000 pcs. of each colour in yellow, purple, red, and white numbered 0-9

***Etiquettes adhésives pour micro-tubes,*** *microvials et autres tubes d'échantillonnage. Résistant aux températures de - 20 / + 80 °C. Surface à écrire avec tout type de stylo. Bandelettes: jaunes dans boite distributrice de 1000 pièces. Disques sur rouleau: couleurs diverses (jaune, turquois, rouge et blanc) avec numérotation 0-9*

| Type<br>*Type* | Dimensions<br>*Dimensions*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Label strips / *Bandelettes* | 32.5 x 13 | **7.414.500** |
| Label dots / *Disques* | Ø 9.5 | **7.414.501** |



**Labels with red border made of self-adhesive paper,** easy to write-on. Can be removed without residues. For use on slides, glasses, vials or bottles. Labels on roll with 13 m length

***Etiquettes adhésives en papier,*** *à cadre rouge et surface à écrire, facilement interchangeable sans laisser de traces, pour utilisation sur des lames microscopiques, flacons ou bouteilles. Livrés sur rouleau de 13 m*

| Dimensions<br>*Dimensions*<br>mm | Pcs. / Roll<br>*Pcs. / Rouleau* | Order No.<br>*N° de code* |
|---|---|---|
| 25 x 20 | 500 | **7.414.510** |
| 41 x 25 | 307 | **7.414.511** |
| 63 x 38 | 200 | **7.414.512** |
| 75 x 50 | 167 | **7.414.513** |



**Labels with black border made of plastic foil,** self-adhesive with, for a long-lasting marking of glasses, vials or bottles

***Etiquettes adhésives en fim de plastique,*** *à cadre noir et surface à écrire, pour utilisation sur tout type de flacons ou tubes*

| Dimensions<br>*Dimensions*<br>mm | For bottles<br>*Pour flacons*<br>ml | Packing<br>*Conditionnement*<br>Pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 52 x 26 | 50 | 10 | **7.414.520** |
| 74 x 37 | 100-250 | 10 | **7.414.521** |
| 105 x 52 | 500-1000 | 10 | **7.414.522** |
| 148 x 74 | 2000 | 5 | **7.414.523** |

**Adhesive labels with warning signs for microtubes,** cryo vials or other small tubes, write-on with all kind of pens, appropriated for freezing and for temperatures up to + 80 °C, in dispenser box

***Etiquettes signalitiques adhésives,*** *de marquage, pour microtubes, cryotubes et autres petits tubes. Adaptées aux températures de congélation et jusqu'à + 80 °C, livrées dans un distributeur*

| Descriptions<br>*Inscription* | Packing<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Biohazard / *Biohazard* | 250 | **7.414.530** |
| Radioactive / *Radioactif* | 250 | **7.414.531** |
| Corrosive / *Corrosif* | 250 | **7.414.532** |
| Freeze / *Congelé* | 250 | **7.414.533** |
| Toxic / *Toxique* | 250 | **7.414.534** |

**Self-adhesive radiation dots,** to label test tubes containing radioactive material. Label 6.35 mm fits onto the lids of micro-tubes. Both other labels fit on bigger labware. Supplied in a roll on backing paper for easy tear off

***Etiquettes adhésives en papier,*** *pour des tubes à essais contenant des matières radioactives, en disques de 6,35 mm pour coller sur le capuchon du micro-tube. Livrées sur rouleau*

| Colour<br>*Couleur* | Ø<br>mm | Pcs. / Roll<br>*Pcs. / Rouleau* | Order No.<br>*N° de code* |
|---|---|---|---|
| | 6.35 | 1000 | **7.414.540** |
| | 12.5 | 1000 | **7.414.541** |
| | 19.0 | 1000 | **7.414.542** |

**Universal coloured,** self-adhesive label tapes suitable for several applications, e.g. in laboratories, workshops, hospital rooms, doctor's practices, etc., can be written on with pencil, pen, felt-pen, ink, typewriter etc., removes without residue and may be used a second time; oil-, water- and acid-resistant, withstands temperatures from -45°C to +121°C. Rolls of 12.7 m

***Rubans adhésifs universels colorés,*** *idéal pour des applications multiples en laboratoire et autres. Surface à écrire pour tout type de marqueurs et facilement interchangeable sans laisser de traces. Résistant à l'eau, aux graisses et aux acides ainsi qu'à des températures de +45+121°C. En rouleau de 12,7 m*

| Colour<br>*Couleur* | Width<br>*Largeur*<br>13 mm | Width<br>*Largeur*<br>19 mm | Width<br>*Largeur*<br>25mm |
|---|---|---|---|
| | **7.414.600** | **7.414.620** | **7.414.640** |
| | **7.414.601** | **7.414.621** | **7.414.641** |
| | **7.414.603** | **7.414623** | **7.414.643** |
| | **7.414.604** | **7.414.624** | **7.414.644** |
| | **7.414.605** | **7.414.625** | **7.414.645** |
| | **7.414.606** | **7.414.626** | **7.414.646** |
| | **7.414.607** | **7.414.627** | **7.414.647** |
| | **7.414.608** | **7.414.628** | **7.414.648** |
| | **7.414.609** | **7.414.629** | **7.414.649** |
| | **7.414.610** | **7.414.630** | **7.414.650** |
| | **7.414.611** | **7.414.631** | **7.414.651** |
| | **7.414.612** | **7.414.632** | **7.414.652** |
| | **7.414.613** | **7.414.633** | **7.414.653** |
| | **7.414.614** | **7.414.634** | **7.414.654** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Tape dispenser for 1 roll / *Distributeur pour 1 rouleau* | **7.414.660** |
| Multitape dispenser 24 cm width / *Distributeur multiplaces, 24 cm de large* | **7.414.661** |



**7.414.600**

**Universal label tapes,** pack includes 10 coloured tape rolls (white, yellow, green, red, pink, blue, rosé, violet, lavender) of 13 mm width and 12.7 m length and supplied with an acrylic glass multi-tape dispenser

***Jeu de rubans adhésifs universels,*** *composé de 10 rouleaux de différentes colories (blanc, jaune, bert, rouge, rose, bleu, rosé, violet et bleuatre) de 13 mm de largeur et de 12,7 m de longueur, livré avec distributeur multi-places en verre acrylique*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.414.670** |



**7.414.670**

**Acrylic coloured tape of high adhesive strength and of good value.** May be used for various purposes like marking, fixation, insulation, and sealing. Rolls: 66 m length, 19 mm width. Tape dispenser available as option

***Rubans acryliques colorés à haute adhésivité et résistance.*** *Utilisation diverse pour marquage, fixation, isolation. Rouleau de 66 m de longueur et de 19 mm de largeur. Distributeur de table en option*

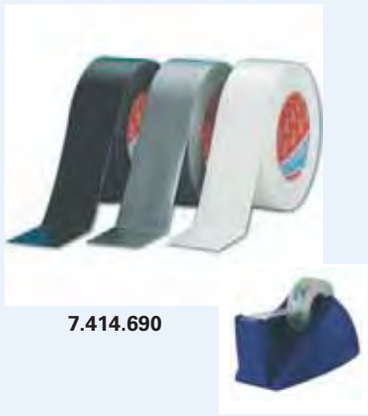
| Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|
| | **7.414.680** |
| | **7.414.681** |
| | **7.414.682** |
| | **7.414.683** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Tape dispenser / *Distributeur* | **7.414.685** |



**7.414.68***



7.414.690

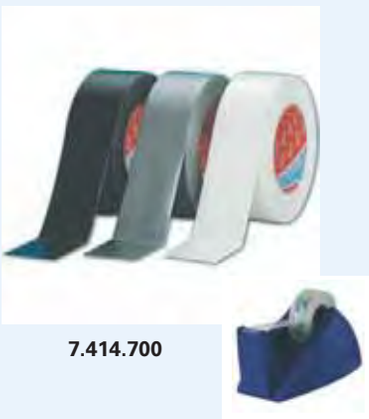
**PVC-coated fabric tape,** ideal for daily applications like closing, unitizing and marking of items, universally useable, temperature resistant up to 90°C.
Adhesive strength: 490 g/cm
Thickness: 0.3 mm
Length of roll: 50 m
Width: 19 mm
Tape dispenser available as option

***Ruban adhésif en tissu à revêtement PVC,*** *utilisé pour applications universelles et résitant jusqu'à 90°C.*
*Force d'adhésion:* *490g/cm*
*Epaisseur:* *0.3 mm*
*Longeuer de rouleau:* *50m*
*Largeur:* *19 mm*
*Distributeur de table en option*

| **Colour** *Couleur* | **Order No.** *N° de code* |
|---|---|
| | **7.414.690** |
| | **7.414.691** |
| | **7.414.692** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Tape dispenser / *Distributeur* | **7.414.685** |



7.414.700

**Adhesive tape made of pure aluminium,** with protective paper. Resists to UV light and is non-ageing. May be marked with ball point or felt pen. Temperature resistance: 90 °C or 100 °C. Tape dispenser for use with Order No. 7.414.691 available as option

***Ruban adhésif en aluminium pur,*** *avec protection de papier, résistance aux rayonnements UV, marquage possible au feutre ou au stylo à bille. Résistance en température à 90°C ou à 100°C. Distributeur de table pour utilisation avec N° de code 7.414.691 disponible en option*

| **Thickness** *Epaisseur* **mm** | **Roll** *Rouleau* **m** | **Order No.** *N° de code* |
|---|---|---|
| 0.04 | 100 | **7.414.700** |
| 0.1 | 50 | **7.414.701** |

**Accessories /** *Accessoires*

| | |
|---|---|
| Tape dispenser for Order No. 7.414.701<br>*Distributeur pour N° de code 7.414.701* | **7.414.705** |



7.414.710

**Tape made of pure PTFE,** for use on all threads constructed from steel, copper, brass, plastics and other materials. PTFE is resistant to almost all liquids including most aggressive medium, does not expand, stick or age.
Temperature resistance: -190 °C to +240 °C
Width: 12 mm
Length: 12 m
Thickness: 0.1 mm

***Ruban en PTFE (Téflon) pur,*** *pour utilisations universelles, résistant à la plupart des liquides et aux températures de:* *-190 °C à +240 °C*
*Longueur:* *12 m*
*Largeur:* *12 mm*
*Epaisseur:* *0.1 mm*

| | **Order No.** *N° de code* |
|---|---|
| | **7.414.710** |

**Laboratory natural brushes,** with wooden handle, standard pack of 10 pieces

***Goupillons naturels de laboratoire,*** *avec manche en bois, en paquet standard de 10 pièces*

| For<br>*Pour* | Ø of head<br>*Ø de la tête*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Beakers / *Béchers* | 60 | **7.414.850** |
| Beakers / *Béchers* | 75 | **7.414.851** |
| Beakers / *Béchers* | 90 | **7.414.852** |

**Laboratory natural brushes** for flasks (up to NS 29/32)

***Goupillons naturels de laboratoire*** *pour ballons (jusqu'à RN 29/32)*

| | L x Ø of head<br>*L x Ø de la tête*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| | 490 x 130/30 | **7.414.860** |

**Laboratory natural brushes** for sedimentation cones

***Goupillons naturels de laboratoire*** *pour cônes de sédimentation*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.414.870** |

**Set of 10 various brushes** with diameters from 10 up to 80 mm

***Jeu de 10 goupillons divers,*** *de diamètres allante de 10 jusqu'à 80 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.414.880** |



## Tubing clamps
## *Colliers de serrage*

**Tubing clamps,** steel galvanized / POM (polyacetal), temperature resistant up to 100 °C

***Colliers métalliques de serrage*** *en acier galvanisé / POM (polyactal)*

| Colour<br>*Couleur* | up to 10 mm | up to 15 mm | up to 20 mm |
|---|---|---|---|
| | **7.414.900** | **7.414.901** | **7.414.902** |
| | **7.414.910** | **7.414.911** | **7.414.912** |
| | **7.414.920** | **7.414.921** | **7.414.922** |
| | **7.414.930** | **7.414.931** | **7.414.932** |



**7.414.900**



**7.414.94***

**WILO Pinchcock,** heat resistant up to 150 °C, made of steel - galvanized zinc

***Presse-tube WILO,*** *en acier galvanisé*

| up to Ø<br>mm | Order No.<br>*N° de code* |
|---|---|
| 10 | **7.414.940** |
| 15 | **7.414.941** |
| 20 | **7.414.942** |
| 30 | **7.414.943** |



**7.414.95***

**Tubing clamps,** screw-type, made of stainless steel

***Colliers de serrage à vis,*** *en acier inoxydable*

| Inner Ø<br>*Ø int.*<br>mm | For tubing Ø<br>*Pour tuyaux Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 10 | 7 - 9.5 | **7.414.950** |
| 12 | 8 - 10.5 | **7.414.951** |
| 14 | 10 - 14 | **7.414.952** |
| 17 | 13 - 16.5 | **7.414.953** |
| 21 | 17 - 20.5 | **7.414.954** |
| 25 | 21 - 25 | **7.414.955** |
| 29 | 25 - 29 | **7.414.956** |
| 33 | 30 - 33 | **7.414.957** |
| 37 | 34 - 37 | **7.414.958** |
| 41 | 36 - 39 | **7.414.959** |




**7.414.96***

**Pinch cock acc. to Hoffmann,** made of messing, with flap

***Pinces à lames parallèles d'Hoffmann,*** *en laiton nickelé, avec clapet*

| B<br>mm | Order No.<br>*N° de code* |
|---|---|
| 12 | **7.414.960** |
| 17 | **7.414.961** |
| 20 | **7.414.962** |
| 25 | **7.414.963** |
| 30 | **7.414.964** |
| 40 | **7.414.965** |
| 45 | **7.414.966** |
| 50 | **7.414.967** |
| 60 | **7.414.968** |
| 70 | **7.414.969** |




**7.414.97***

**Pinch cock acc. to Mohr,** made of messing

***Pinces de Mohr,*** *en laiton*

| A<br>mm | Order No.<br>*N° de code* |
|---|---|
| 40 | **7.414.970** |
| 50 | **7.414.971** |
| 60 | **7.414.972** |
| 70 | **7.414.973** |
| 80 | **7.414.974** |

**Tubing clips,** made of exta hard nylon heat resistant from -40/+150°C and for pressure up to 14 bars. Standar pack of 10 pieces

***Colliers pour tuyaux,*** *en nylon trés dur et résistant aux températures de -40/+ 150 °C et aux pressions jusqu'à 14 bars. En paquet standard de 10 pièces*

| Clamping<br>*Serrage*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 5.6 - 6.8 | **7.414.980** |
| 6.5 - 8.1 | **7.414.981** |
| 7.9 - 9.6 | **7.414.982** |
| 9.2 – 10.8 | **7.414.983** |
| 10.2 – 12.3 | **7.414.984** |
| 11.1 – 13.4 | **7.414.985** |
| 12.0 – 14.5 | **7.414.986** |
| 13.1 – 15.7 | **7.414.987** |
| 15.0 – 17.8 | **7.414.988** |
| 16.9 – 19.9 | **7.414.989** |
| 18.1 – 21.4 | **7.414.990** |
| 20.3 – 23.7 | **7.414.991** |
| 22.2 – 25.8 | **7.414.992** |
| 24.5 – 28.4 | **7.414.993** |



**7.414.98***

**Natural Rubber for water, gas and vacuum**
Traditional laboratory rubber hose, very good elasticity. Design according to DIN 12 865. Elongation > 400 %. Suitable for food contact applications according to FDA positive list. With imprint of the respective internal and external dimensions. Roll of 25 m

- red
- hardness Shore A 50 ± 5
- temperature range - 30 °C to + 70 °C
- FDA 172 600,
- slight odor

***Tuyau en caoutchouc naturel rouge pour eau, gaz et vide,*** *à usage universel, en rouleau de 25 m*

- density 1.13
- CE (mechanical engineering)
- sterilizable, ethylene oxid
- non-toxic
- slight taste



**7.420.0****

| Inner Ø<br>*Ø int.*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | for Water / Gas<br>*pour Eau / Gaz* | for Vacuum<br>*pour Vide* |
|---|---|---|---|---|
| 2.0 | 4.0 | 1.0 | **7.420.000** | - |
| 3.0 | 5.0 | 1.0 | **7.420.001** | - |
| 3.0 | 6.0 | 1.5 | **7.420.002** | - |
| 3.0 | 9.0 | 3.0 | - | **7.420.003** |
| 4.0 | 6.0 | 1.0 | **7.420.004** | - |
| 4.0 | 7.0 | 1.5 | **7.420.005** | - |
| 4.0 | 8.0 | 2.0 | **7.420.006** | - |
| 4.0 | 12.0 | 4.0 | - | **7.420.007** |
| 5.0 | 8.0 | 1.5 | **7.420.008** | - |
| 5.0 | 9.0 | 2.0 | **7.420.009** | - |
| 5.0 | 13.0 | 4.0 | - | **7.420.010** |
| 5.0 | 15.0 | 5.0 | - | **7.420.011** |
| 6.0 | 9.0 | 1.5 | **7.420.012** | - |
| 6.0 | 10.0 | 2.0 | **7.420.013** | - |
| 6.0 | 12.0 | 3.0 | - | **7.420.014** |
| 6.0 | 14.0 | 4.0 | - | **7.420.015** |
| 6.0 | 16.0 | 5.0 | - | **7.420.016** |
| 6.0 | 18.0 | 6.0 | - | **7.420.017** |
| 7.0 | 10.0 | 1.5 | **7.420.018** | - |
| 7.0 | 11.0 | 2.0 | **7.420.019** | - |
| 7.0 | 15.0 | 4.0 | - | **7.420.020** |
| 7.0 | 17.0 | 5.0 | - | **7.420.021** |
| 8.0 | 12.0 | 2.0 | **7.420.022** | - |
| 8.0 | 16.0 | 4.0 | - | **7.420.023** |
| 8.0 | 18.0 | 5.0 | - | **7.420.024** |
| 8.0 | 20.0 | 6.0 | - | **7.420.025** |
| 8.0 | 24.0 | 8.0 | - | **7.420.026** |
| 9.0 | 13.0 | 2.0 | **7.420.027** | - |
| 10.0 | 14.0 | 2.0 | **7.420.028** | - |
| 10.0 | 16.0 | 3.0 | - | **7.420.029** |
| 10.0 | 20.0 | 5.0 | - | **7.420.030** |
| 10.0 | 26.0 | 8.0 | - | **7.420.031** |
| 10.0 | 30.0 | 10.0 | - | **7.420.032** |
| 12.0 | 17.0 | 2.5 | **7.420.033** | - |
| 12.0 | 22.0 | 5.0 | - | **7.420.034** |
| 12.0 | 28.0 | 8.0 | - | **7.420.035** |
| 13.0 | 19.0 | 3.0 | **7.420.036** | - |
| 14.0 | 20.0 | 3.0 | **7.420.037** | - |
| 15.0 | 21.0 | 3.0 | **7.420.038** | - |
| 15.0 | 31.0 | 8.0 | - | **7.420.039** |
| 16.0 | 22.0 | 3.0 | **7.420.040** | - |
| 18.0 | 24.0 | 3.0 | **7.420.041** | - |
| 20.0 | 28.0 | 4.0 | **7.420.042** | - |
| 25.0 | 33.0 | 4.0 | **7.420.043** | - |

**Butyl Rubber Tubing (IIR)**
Black, without reinforcement, largely impermeable to gas air diffusion approximately 1/8 that of standard rubber tubing. Roll of 25 m

***Tuyau en butyl caoutchouté noir***
*sans renforcement, imperméable et résistant jusqu'à + 100 °C, en rouleau de 25 m*



**7.420.1****

| Inner Ø<br>*Ø int.*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 3.0 | 7.0 | 2.0 | **7.420.100** |
| 6.0 | 10.0 | 2.0 | **7.420.101** |
| 6.0 | 14.0 | 4.0 | **7.420.102** |
| 8.0 | 12.0 | 2.0 | **7.420.103** |
| 10.0 | 14.0 | 2.0 | **7.420.104** |
| 12.0 | 16.0 | 2.0 | **7.420.105** |



Glass-clear PVC hose
*PVC standard*



Clear PVC pressure hose
*PVC renforcé*

**7.420.2****

**Glass-clear PVC Tubing**
Environmental hoses made of soft PVC, cadmium-free, with high resistance against chemicals, high flexibility long-lasting glass-clear transparency and excellent abrasion resistance

- glass-clear
- hardness shore A80 ± 3
- operating temperature - 20 °C to + 50 °C
- slight odor
- slight taste

***Tuyau souple en PVC transparent*** *à haute résistance chimique pour travaux entre -20°C et +50°C. Dureté shore A80 +/-3*

**Clear PVC pressure Tubing**
Fabric reinforced, pleasant colour, long-lasting transparency, increased flexibility, high chemical resistance, excellent abrasion resistance, environmentally compatible, cadmium-free

- hardness shore A80 ± 3
- operating temperature - 20 °C to + 50 °C
- TÜV approved (Germany Industry standard)
- slight odor
- slight taste

***Tuyau souple en PVC renforcé transparent*** *à haute résistance chimique et recommandé pour les travaux sous pression et à température comprise entre -20°C et +50°C. Dureté shore A80 +/-3*

| Inner Ø<br>*Ø int.* | Outer Ø<br>*Ø ext.* | Wall thickness<br>*Epaisseur* | Roll of<br>*Rouleau de* | PVC glass-clear<br>*PVC transparent* | PVC pressure<br>*PVC renforcé pour pression* |
|---|---|---|---|---|---|
| mm | mm | mm | m | | |
| 2.0 | 4.0 | 1.0 | 100 | **7.420.200** | - |
| 3.0 | 5.0 | 1.0 | 100 | **7.420.201** | - |
| 4.0 | 6.0 | 1.0 | 100 | **7.420.202** | - |
| 5.0 | 7.0 | 1.0 | 100 | **7.420.203** | - |
| 5.0 | 8.0 | 1.5 | 100 | **7.420.204** | - |
| 5.0 | 9.0 | 2.0 | 100 | **7.420.205** | - |
| 5.0 | 11.0 | 3.0 | 50 | - | **7.420.206** |
| 6.0 | 8.0 | 1.0 | 100 | **7.420.207** | - |
| 6.0 | 9.0 | 1.5 | 100 | **7.420.208** | - |
| 6.0 | 10.0 | 2.0 | 50 | **7.420.209** | - |
| 6.0 | 12.0 | 3.0 | 50 | - | **7.420.210** |
| 7.0 | 10.0 | 1.5 | 50 | **7.420.211** | - |
| 7.0 | 11.0 | 2.0 | 50 | **7.420.212** | - |
| 8.0 | 11.0 | 1.5 | 50 | **7.420.213** | - |
| 8.0 | 12.0 | 2.0 | 50 | **7.420.214** | - |
| 8.0 | 14.0 | 3.0 | 50 | - | **7.420.215** |
| 9.0 | 12.0 | 1.5 | 50 | **7.420.216** | - |
| 9.0 | 13.0 | 2.0 | 50 | **7.420.217** | - |
| 9.0 | 15.0 | 3.0 | 50 | - | **7.420.218** |
| 10.0 | 13.0 | 1.5 | 50 | **7.420.219** | - |
| 10.0 | 14.0 | 2.0 | 50 | **7.420.220** | - |
| 10.0 | 16.0 | 3.0 | 50 | - | **7.420.221** |
| 12.0 | 16.0 | 2.0 | 50 | **7.420.222** | - |
| 12.0 | 18.0 | 3.0 | 50 | **7.420.223** | - |
| 12.0 | 21.0 | 4.5 | 50 | - | **7.420.224** |
| 13.0 | 19.0 | 3.0 | 50 | **7.420.225** | - |
| 13.0 | 20.0 | 3.5 | 50 | - | **7.420.226** |
| 16.0 | 20.0 | 3.0 | 50 | **7.420.227** | - |
| 16.0 | 24.0 | 4.0 | 50 | - | **7.420.228** |
| 19.0 | 27.0 | 4.0 | 50 | **7.420.229** | - |
| 19.0 | 27.0 | 4.0 | 50 | - | **7.420.230** |



**7.420.3****

**PE polyethylene**
Hoses made of transparent polyethylene, generally recognized as safe physiologically, resistant against (nonoxidizing) acids, caustic solutions, salts and a number of solvents, pressure resistant, flexible, impact resistant, light up to + 80° C deformation resistant

- transparent
- temperature range - 40 °C to + 95 °C
- slight odor
- non-toxic

***Tuyau souple en Polyéthylène (PE)***
*transparent, résistant aux acides, solutions caustiques, sels et à un grand nombre de solvents. Température -40/+ 95°C. Dureté shore: A80 +/-3. Adapté aussi pour les produits alimentaires*

- hardness Shore A 80 ± 3
- suitable for foodstuff
- slight taste

| Inner Ø<br>*Ø int.* | Outer Ø<br>*Ø ext.* | Wall thickness<br>*Epaisseur* | Roll of<br>*Rouleau de* | Order No.<br>*N° de code* |
|---|---|---|---|---|
| mm | mm | mm | m | |
| 3.0 | 5.0 | 1.0 | 100 | **7.420.300** |
| 6.0 | 8.0 | 1.0 | 100 | **7.420.301** |
| 6.0 | 9.0 | 1.5 | 100 | **7.420.302** |
| 8.0 | 10.0 | 1.0 | 100 | **7.420.303** |
| 8.0 | 11.0 | 1.5 | 100 | **7.420.304** |
| 10.0 | 14.0 | 2.0 | 50 | **7.420.305** |
| 12.0 | 16.0 | 2.0 | 50 | **7.420.306** |

**Silicone Tygon 3350**
Very high quality silicone hose, platinum vulcanized with very smooth internal surface Ozone and UV resistant Corresponds to FDA 21 CFR, Part 177.2600. Highly suitable for biological and pharmaceutical applications. Roll of 15 m

***Tuyau en silicone Tygon 3350 transparent,*** *à haute qualité recommandé pour les applications dans le domaine biologique et pharmaceutique. En rouleau de 15 m. Pour travaux en température comprise entre -60°C et +200°C. Conforme à FDA 21 CFR, Part 177.2600*

- transparent
- operating temperature - 60 °C to + 200 °C
- FDA 21 CFR, Part 177.2600
- odorless and tasteless

**Viton Fluorocarbon polymer**
Synthetic fluorocarbon polymer, black. Exceptional chemical resistance against hydrocarbons (aromatic and aliphatic), oils, strong acids, oxidations media, solvents contalning chlorine. Impermeable to gases and steam . Roll of 7.5 m

***Tuyau noir en polymère fluorocarboné Viton,*** *à haute résistance chimiques contre les hydrocarbures (aromatiques et aliphatiques), huiles, acides forts, milieu d'oxidation...), imperméable au gaz et à la vapeur. En rouleau de 7.5 m. Pour travaux en température comprise entre -31°C et +204°C. A ne pas utiliser dans l'alimentaire ou dans le médical*

- black
- operating temperature - 31 °C to + 204 °C
- do not use for foodstuffs and medicine

| Inner Ø<br>*Ø int.*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Silicone Tygon<br>3350 | Viton |
|---|---|---|---|---|
| 1.6 | 4.8 | 1.6 | **7.420.400** | **7.420.500** |
| 2.4 | 5.6 | 1.6 | **7.420.401** | - |
| 3.2 | 6.4 | 1.6 | **7.420.402** | **7.420.502** |
| 4.8 | 8.0 | 1.6 | **7.420.403** | **7.420.503** |
| 4.8 | 9.6 | 2.4 | **7.420.404** | **7.420.504** |
| 6.4 | 9.6 | 1.6 | **7.420.405** | **7.420.505** |
| 6.4 | 11.2 | 2.4 | **7.420.406** | **7.420.506** |
| 6.4 | 12.8 | 3.2 | **7.420.407** | **7.420.507** |
| 8.0 | 11.2 | 1.6 | **7.420.408** | **7.420.508** |
| 8.0 | 12.8 | 2.4 | **7.420.409** | - |
| 9.5 | 12.7 | 1.6 | **7.420.410** | - |
| 9.5 | 14.3 | 2.4 | **7.420.411** | - |
| 9.5 | 15.9 | 3.2 | **7.420.412** | **7.420.512** |
| 11.1 | 14.3 | 1.6 | **7.420.413** | - |
| 11.1 | 15.9 | 2.4 | **7.420.414** | - |
| 12.7 | 17.5 | 2.4 | **7.420.415** | - |
| 12.7 | 19.1 | 3.2 | **7.420.416** | - |
| 15.9 | 20.5 | 2.4 | **7.420.417** | - |
| 15.9 | 22.3 | 3.2 | **7.420.418** | - |




**7.420.4****



**7.420.5****

**Silicone**
Highly flexible, transparent hose. Good resistance against weak acids and alkalis Do not use for strong acids and caustic solutions Swells in organic solvents. Largely nonreactive to ionizing solvents except chloridated aliphatic and aromatic hydrocarbons

- transparent
- temperature range - 60 °C to + 200 °C in short times + 260 °C
- slight taste

***Tuyau souple en silicone transparent,*** *à haute résistance chimique contre les solvents organiques, acides forts et solutions caustiques. Pour travaux en température comprise entre -60/+200°C et temporairement jusqu'à +260°C.*

- hardness Shore A 55 ± 5
- suitable for foodstuff
- slight odor
- non-toxic

| Inner Ø<br>*Ø int.*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Roll of<br>*Rouleau de*<br>m | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1.5 | 3.5 | 1.0 | 25 | **7.420.600** |
| 2.0 | 4.0 | 1.0 | 25 | **7.420.601** |
| 3.0 | 6.0 | 1.5 | 25 | **7.420.602** |
| 4.0 | 7.0 | 1.5 | 25 | **7.420.603** |
| 4.0 | 9.0 | 2.5 | 25 | **7.420.604** |
| 5.0 | 8.0 | 1.5 | 25 | **7.420.605** |
| 5.0 | 10.0 | 2.5 | 25 | **7.420.606** |
| 6.0 | 9.0 | 1.5 | 25 | **7.420.607** |
| 6.0 | 10.0 | 2.0 | 25 | **7.420.608** |
| 8.0 | 11.0 | 1.5 | 25 | **7.420.609** |
| 8.0 | 14.0 | 3.0 | 25 | **7.420.610** |
| 10.0 | 14.0 | 2.0 | 25 | **7.420.611** |
| 10.0 | 16.0 | 3.0 | 25 | **7.420.612** |
| 12.0 | 16.0 | 2.0 | 25 | **7.420.613** |
| 12.0 | 18.0 | 3.0 | 25 | **7.420.614** |
| 13.0 | 19.0 | 3.0 | 25 | **7.420.615** |
| 15.0 | 21.0 | 3.0 | 20 | **7.420.616** |
| 18.0 | 24.0 | 3.0 | 20 | **7.420.617** |
| 20.0 | 26.0 | 3.0 | 20 | **7.420.618** |
| 25.0 | 33.0 | 4.0 | 15 | **7.420.619** |



**7.420.6****



**7.420.7****



**7.420.72***



**7.420.800**

**PTFE / Teflon** (Polytetrafluoroethylene)
Excellent properties: extremely high chemical resistance against all chemicals smallest frictional coefficient, excellent anti-adhesive qualities/residue emptying PTFE hoses do not emit odors, burn or smoke and are resistant to ageing and UV light. Not resistant to fluorine compounds or strong reducing agents. Roll of 10 m

- opaque
- temperature range - 200 °C to + 260 °C

***Tuyau souple en téflon (PTFE)*** *opaque et stérilisable, à haute résistance chimique. En rouleau de 10 m*

**PFA / Teflon** (Perfluoralkoxy)
Similar to PTFE, very smooth surface. Excellent chemical resistance. Ideal for ultrapure liquids. Not resistant against fluorine compounds or strong reducing agents. Roll of 10 m

- transparent
- temperature range - 270 °C to + 260 °C

***Tuyau souple en Téflon (PFA)*** *transparent et stérilisable, similaire au PTFE et idéal pour les liquides ultrapures. En rouleau de 10 m*

**FEP / Teflon** (Tetrafluoroethylene-Hexafluorprpylene)
Substantially better transparency than PTFE or PFA, smooth surface. Excellent chemical resistance. Ideal for ultrapure liquids. Not resistant against fluorine compounds or strong reducing agents. Roll of 10 m

- transparent
- temperature range - 270 °C to + 205 °C

***Tuyau souple en téflon (FEP)*** *plus transparent que le PTFE ou le PFA, à haute résistance chimique et idéal pour les liquides ultrapures. En rouleau de 10 m*

| Inner Ø<br>*Ø int.*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | PTFE | PFA | FEP |
|---|---|---|---|---|---|
| 1.0 | 3.0 | 1.0 | **7.420.700** | - | - |
| 2.0 | 4.0 | 1.0 | **7.420.701** | **7.420.721** | **7.420.741** |
| 3.0 | 4.0 | 0.5 | **7.420.702** | - | - |
| 3.0 | 5.0 | 1.0 | **7.420.703** | - | - |
| 4.0 | 6.0 | 1.0 | **7.420.704** | **7.420.724** | **7.420.744** |
| 5.0 | 7.0 | 1.0 | **7.420.705** | - | - |
| 6.0 | 8.0 | 1.0 | **7.420.706** | **7.420.726** | **7.420.746** |
| 8.0 | 10.0 | 1.0 | **7.420.707** | **7.420.727** | **7.420.747** |
| 8.0 | 11.0 | 1.5 | **7.420.708** | - | - |
| 10.0 | 12.0 | 1.0 | **7.420.709** | **7.420.729** | **7.420.749** |
| 10.0 | 14.0 | 2.0 | **7.420.710** | - | - |
| 12.0 | 14.0 | 1.0 | **7.420.711** | **7.420.731** | **7.420.751** |
| 12.0 | 16.0 | 2.0 | **7.420.712** | - | - |
| 14.0 | 16.0 | 10 | **7.420.713** | **7.420.733** | - |
| 16.0 | 18.0 | 10 | **7.420.714** | - | - |
| 18.0 | 20.0 | 10 | **7.420.715** | - | - |
| 20.0 | 22.0 | 10 | **7.420.716** | - | - |

**Tubing gauge**
Small and handy gauge made of polypropylene for easy measurement of the inner and outer diameter of hoses, tubes etc., in the range 1,5 to 16 mm Ø. Dimensions: 120 x 50 x 12 mm

***Jauge de mesure pour tuyaux***
*Petite et maniable, cette jauge en polypropylene permet de mesurer le diamètre intérieur et extérieur des tuyaux, tubes à essais etc... dans une plage comprise de 1.5 à 16 mm de diamètre*

| Order No.<br>*N° de code* |
|---|
| **7.420.800** |

## Counters
## *Compteurs*

**Hand Tally counter with Zero Reset**
Range from 0 to 9999, standard version with ring for easy operation

***Compteur numérique à main avec remise à zéro*** *et totaliseur 9999, version standard avec anneau*

| | Order No.<br>*N° de code* |
|---|---|
| | 8.481.050 |



8.481.050

**Benchtop counter,** with 5-key or 8-key counters plus totalizer and Zero Reset
Range from 0 to 999

***Compteurs numériques de table,*** *avec 5 ou 8 touches plus totaliseur e remise à zero. Echelle de 0 à 999*

| | Order No.<br>*N° de code* |
|---|---|
| 5-key counter / *Compteur à 5 touhes* | 7.424.100 |
| 8-key counter / *Compteur à 8 touhes* | 7.424.110 |



7.424.1**

## Stopwatches
## *Chronomètres à aiguille*

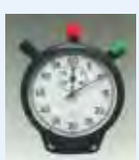
**Stopwatches, housing made of ABS**
dia. 55 mm, shock-protected in black. Pinlever 1-jewel. 3 press-buttons. Supplied with lanyard

***Chronomètres à aiguille avec boitier en ABS*** *de dia. 55 mm livrable en couleur noire, à 1 rubis et 3 boutons à pression (Départ - Stop - Remise à zéro), livré avec cordelette*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| 1/10 sec. / 15 min. | 7.425.000 |
| 1/5 sec. / 30 min. | 7.425.001 |
| 1/5 sec. / 60 min. | 7.425.002 |



7.425.000



7.425.001



7.425.002

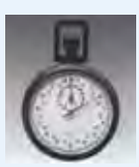
**Chrown Stopwatches**, housing made of ABS with bow

***Chronomètres à aiguille*** *avec boitier en ABS noir et avec un seul bouton de fonction*

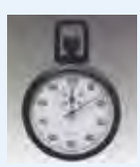
| Type<br>*Type* | | Order No.<br>*N° de code* |
|---|---|---|
| 1/5 sec. / 30 min. | | 7.425.010 |
| 1/10 sec. / 15 min. | | 7.425.011 |
| 1/100 min. / 15 min. | | 7.425.012 |
| 1/100 min. + 1/5 sec. / 30 min | | 7.425.013 |
| 1/5 sec. / 30 min | Addition timer | 7.425.015 |
| 1/10 sec. / 15 min | Addition timer | 7.425.016 |
| 1/100 min. / 30 min | Addition timer | 7.425.017 |
| 1/100 min. + 1/5 sec. / 30 min | Addition timer | 7.425.018 |



7.425.010



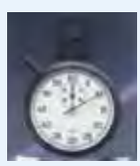
7.425.011



7.425.012



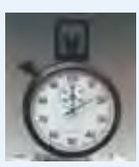
7.425.013



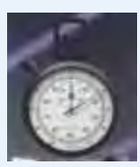
7.425.015



7.425.016



7.425.017



7.425.018

**Crown stopwatches,** one-button model or with addition timer, with chromed metal housing

***Chronomètres*** *à un seul bouton ou avec compteur additionnel à boitier en acier chromé*

| Type<br>*Type* | | Order No.<br>*N° de code* |
|---|---|---|
| 1/5 sec. / 30 min. | | 8.482.100 |
| 1/5 sec. / 60 min. | | 8.482.300 |
| 1/10 min. / 15 min. | Addition timer | 8.482.200 |



8.482.100



8.482.200



7.425.030

**Digital LCD Stopwatch** supplied with lanyard and button cell of 1.5 V
Functions: Start -Stop-Reset
Addition: Start - Stop - Reset

***Chronomètre digital LCD*** *au 1/100° sec.*
*à batterie type bouton de 1.5V.*
*Fonctions: Départ - Stop - Remise à zéro*
*Addition: Départ - Stop - Remise à zéro*

| | Order No. / *N° de code* |
|---|---|
| 7 digits of 6.5 mm, 1/100 sec. 9 h, 59 min., 59 sec. 99/100 sec.<br>*Affichage LCD, 7 digits de 6.5 mm, au 1/100 sec. Echelle 9h59min., 59,99 sec.* | **7.425.030** |



7.425.035

**Digital LCD Stopwatch** supplied with lanyard and button cell of 1.5 V
Functions: Start -Stop-Reset, Addition, Split and dual measurement, Time and Date

***Chronomètre digital LCD*** *au 1/100° sec.*
*à batterie type bouton de 1.5V.*
*Fonctions: Départ - Stop - Remise à zéro*
*Addition, Mesure en split et double, temps et date*

| | Order No. / *N° de code* |
|---|---|
| 1/100 sec. | **7.425.035** |



7.425.040



7.425.041

**Digital LCD Stopwatch**
Functions: Start -Stop-Reset, Addition, Split and Lap
Memory: First 9 times + total time, Time and Date

***Chronomètres digital LCD*** *au 1/100° sec.*
*à batterie type bouton de 1.5V. Fonctions: Départ - Stop - Remise à zéro - Addition, Split et mémoire superposée. Les premiers 9 temps + temps total, temps et date*

| | Order No. / *N° de code* |
|---|---|
| Double LCD-display1/100 sec., 9 h, 59 min., 59.99 sec.<br>*Echelle double LCD, 9h59min., 59.99 sec.* | **7.425.040** |
| 1/100 sec., 9 h, 59 min., 59.99 sec. backlighted LCD-Display<br>*Echelle double LCD rétroéclairée, 9h59min., 59.99 sec.* | **7.425.041** |



8.484.150

**Multi-function-quartz-stopwatch,** recording period 50 minutes, 59 seconds and 99/100 seconds, 6 digit LCD-display. Functions: start/stop, addition, split, reset, battery operated (1.5 V - life time about 2 years), ABS-housing

***Chronomètre digital LCD***
*50 min., 59 sec. et 99/100 sec.*
*Fonctions: Départ - Stop - Remise à zéro*
*Addition, Mesure en split*
*à batterie de 1.5V*

| | Order No. / *N° de code* |
|---|---|
| | **8.484.150** |



7.425.050

**Digital LCD stopwatch**
Functions:
Start/Stop/Reset - Split/Lap/Addition.
Split and Lap are readable at the same time. Daytime and date.
65 memory function: for split and lap.
Double LCD-display 7 mm /5 mm.
Upper range: 9999.99 min.
Lower range: 99999.99 min.
Battery Micron Cell (AAA) 1.5V.

***Chronomètre digital LCD***
*à double échelle de lecture 7mm/5mm.*
*Fonctions: Départ/Arrêt/Remise à zéro - Split/Lap/Addition. Lecture simultanée de Split et Lap. Heure et date.*
*65 functions de mémoire pour split et lap.*
*Echelle supérieure: 9999.99 min.*
*Echelle inférieure 99999.99 min.*
*Batterie type micro (AAA) de 1.5V.*

| | Order No. / *N° de code* |
|---|---|
| | **7.425.050** |



7.425.060



7.425.061

**Digital Timers for industrial and laboratory use,** all the three timers include a clip to hang or stand. A magnet is also included

***Compteur de temps digital LCD pour laboratoire et industrie***

| | Order No. / *N° de code* |
|---|---|
| Simple count-down timer Display 99 min., 59 sec<br>*Compteur de temps simple, échelle 99 min. 59 sec.* | **7.425.060** |
| Can be programmed for two separate channels. Includes also real time and count-up (stopwatch) timer. Display 99 min., 59 sec<br>*Peut être programmé sur 2 canaux séparés. Inclue aussi une horloge et un chronomètre*<br>*Affichage 99 min. 59 sec.* | **7.425.061** |
| Triple display. Each display (time) can be set separately and also a real time clock, count-down and count-up (stop)<br>3 Displays with 99 h, 59 min., 59 sec<br>*A triple afficheur digital LCD à utilisation indépendante. 3 Echelles de 99h 59min. et 59 sec.* | **7.425.062** |



7.425.062

**Digital LCD multi-timer,** as stopwatch, programmable timer etc... with alarm signal for all control applications. As timer up to 99 minutes, 59 seconds, as stopwatch 59 minutes, 59 seconds, even as addition stop-watch. Battery operated 1.5 V. Can be used as benchtop or as wall timer. Dimensions: 70 x 70 mm.

***Chronomètre digital LCD à multi-fonctions,*** *à compteur programmable avec signal accoustique jusqu'à 99 minutes, 59 secondes et comme chronomètre jusqu'à 59 minutes, 50 sec. Alimentation sur pile de 1.5 V. Peut être utilisé sur table ou au mur. Dimensions: 70 x 70 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **8.484.200** |



**8.484.200**

**Quartz LCD-counter with alarm,** precise second setting up to 99 minutes, alarm up to 60 secondes, complete with clip, stand and magnet, battery button cell 1.5 V. Dimensions: 63 x 58 x 12 mm

***Compteur digital LCD à quartz*** *jusqu'à 99 minutes, signal accoustique jusqu'à 60 secondes, complet avec pince, support et aimant, alimentation Dimensions: 63 x 58 x 12 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **8.484.160** |



**8.484.160**

**Digital Stopwatch,** delivered with button cell 1.5 V
Functions: Count-down with acoustic signal and repeat, Stopwatch in count-up and watch

***Chronomètre digital LCD de table à 6 digits*** *à alimentation sur pile de 1.5V. Fonctions: compteur avec signal acoustique et répétition et horloge*

| | Order No.<br>*N° de code* |
|---|---|
| LCD-display, 6 digits of 8 mm, 1/1 sec.,<br>Stopwatch: 23 h, 59 min., 59 sec.<br>Count-down: 23 h, 59 min., 59 sec.<br>*6 digits de 8 mm 1/1 sec.*<br>*Fonctions chronomètre et compteur: 23h 59min. 59 sec.* | **7.425.100** |




**7.425.100**

**Mechanical Interval Timer**, adjustable, in plastic housing

***Minuterie mécanique,*** *à boitier en plastique, à réglage continu de 0-60 minutes ou 0-120 minutes*

| | Order No.<br>*N° de code* |
|---|---|
| 0 - 60 min. | **8.480.112** |
| 0 - 120 min. | **8.480.120** |




**8.480.120**




**7.425.120**

**Quartz controlled stopwatch**
Functions: Start/stop: start-stop-reset,
Addition: start-stop-start-...-stop-reset,
Usable as table or wall stopclock.
Supplied with AA battery 1.5 V

*Chronomètre de table à quartz à cadran gradué de 110mm de diamètre. Echelle de mesure extérieure: 0-60 secondes + 0-60 minutes. Echelle de mesure intérieure: 0-100/100 min. Fonctions: Marche/Arrêt/ remise à zéro. Boitier en ABS de 175x130x40/95mm. Alimentation sur pile Mignon (AA) de 1.5V.*

| | Order No.<br>*N° de code* |
|---|---|
| Measuring range: 0-60 seconds, 0-100 1/100 minutes, 0-60 minutes<br>Dial: Ø 110 mm with luminous dots<br>Plastic housing 175 x 130 x 40/95 mm | **7.425.120** |



**7.425.130**

**Benchtop digital LCD timer** with adjustable signal, 2 lines and function window.
Display range selectable
999 min., 99/100 min. and
9h, 59 min. 59 sec. 1/10 sec.
Functions:
Start/Stop/Reset-Addition - Flyback -
Count-down with adjustable signal.
Plastic housing 175 x 130 x 40/95 mm.
Mignon cell (AA) R6.

***Compteur digital de table** avec 2 chronomètres de précision avec signal accoustique réglable.*
*Affichage:*
*999 min., 99/100 min. et*
*9h, 59 min. 59 sec. 1/10 sec.*
*Fonctions:*
*Start/Stop/Reset-Addition - Flyback - Count-down signal accoustique.*
*Boitier en plastique 175 x 130 x 40/95 mm.*
*Batterie type Mignon (AA) R6*

| | Order No.<br>*N° de code* |
|---|---|
| Measuring range: 0-60 seconds, 0-100 1/100 minutes, 0-60 minutes<br>Dial: Ø 150 mm with luminous dots<br>Dimensions 225 x 180 mm | **7.425.130** |




**7.425.140**

**Mechanical bench stopwatch**
with minutes and seconds scale, scale dia. 95 mm, height approx. 130 mm, for recording periods from 1 seconde up to 60 minutes, running time about 20 hours, housing made of plastic black. With start/stop and zerofly-back-levers

***Compteur mécanique de table***
*avec cadran graduée en minutes et secondes de dia. 95 mm et de 130 mm de haut. Echelle 1 seconde à 60 minutes, durée env. 20h. Boitier en plastique. Boutons de marche/arrêt et remise à zéro.*

| | Order No.<br>*N° de code* |
|---|---|
| | **7.425.140** |



**7.425.150**

**Time Switch for industrial and laboratory use**

***Chronorupteur pour laboratoire et industrie***

| | Order No.<br>*N° de code* |
|---|---|
| Range 0 to 24 hours with 15 min. divisions<br>Minimum switching period 15 min.<br>220 V, 50 Hz, max. switching power 16 A/3600 W<br>*Echelle 0-24h par segment de 15 min. 230V-50Hz. Puissance 16A/3600W* | **7.425.150** |



**7.425.151**

**Digital LCD Time switch** with storage capacity for 20 switching modes 7-day index programm. Minimum switching period 1 min. 230V-50Hz/16A.

***Chronorupteurs digital LCD** pour laboratoire et industrie, avec une capacité de mémoire pour 20 modes de commutations. Programme sur 7 jours. Segment minimum 1 min. 230V-50Hz/16A*

| | Order No.<br>*N° de code* |
|---|---|
| 7-day index program (Mon - Sun, Mon - Sat, Mon - Fri, Sat - Sun, daily)<br>Minimum switching period 1 min.<br>230 V, 50/60 Hz, max. switching power 16 A | **7.425.151** |

# Vernier calipers / Micrometers

## *Pieds à coulisse / Verniers*

**Vernier Calipers**
made of stainless steel, with knife points for measuring narrow points, driving gear and depth gauge

***Pieds à coulisse simple** en acier inoxydable avec jauge de mesure de profondeur*

| Range<br>*Echelles*<br>mm | Tolerance<br>*Tolérance*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 0 to 150 | 0.05 | **7.426.000** |
| 0 to 200 | 0.05 | **7.426.001** |
| 0 to 300 | 0.05 | **7.426.002** |



**7.426.000**

**Digital LCD Vernier calipers**
made of stainless steel, with knife points for measuring narrow points, driving gear and depth gauge
Functions: On/Off - Zéro

***Pieds à coulisse digital** avec affichage LCD, en acier inoxydable*
*Fonctions: Marche/Arrêt - Zéro*

| Range<br>*Echelles*<br>mm | Tolerance<br>*Tolérance*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 0 to 150 | 0.02 | **7.426.100** |
| 0 to 200 | 0.02 | **7.426.101** |
| 0 to 300 | 0.03 | **7.426.102** |



**7.426.100**

**Micrometers**
made of stainless steel

***Vernier simple** en acier inoxydable*

| Range<br>*Echelles*<br>mm | Tolerance<br>*Tolérance*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 0 to 15 | ± 0.01 | **7.426.200** |
| 0 to 25 | ± 0.01 | **7.426.201** |
| 25 to 50 | ± 0.01 | **7.426.202** |



**7.426.200**



**7.425.201**

**Digital LCD Micrometers**
Functions: On/Off - Zéro

***Vernier digital LCD***
*Fonctions: Marche/Arrêt - Zéro*

| Range<br>*Echelles*<br>mm | Tolerance<br>*Tolérance*<br>µm | Order No.<br>*N° de code* |
|---|---|---|
| 0 to 25 | ± 1 | **7.426.300** |
| 25 to 50 | ± 1 | **7.426.301** |



**7.426.300**





## Test sieves
## *Tamis*

**Laboratory sieves,** acc. to ISO 3310/1 made of stainless steel with wire gauze

***Tamis de laboratoires*** *selon ISO 3310/1, en acier inoxydable avec toile*

| **Mesh** *Maille* | **Ø 100 H. 40** mm | **Ø 150 H. 40** mm | **Ø 200 H. 25** mm | **Ø 250 H. 50** mm | **Ø 305 H. 40** mm |
|---|---|---|---|---|---|
| 20 µm | **7.500.000** | **7.500.100** | **7.500.200** | **7.500.300** | **7.500.400** |
| 25 µm | **7.500.001** | **7.500.101** | **7.500.201** | **7.500.301** | **7.500.401** |
| 32 µm | **7.500.002** | **7.500.102** | **7.500.202** | **7.500.302** | **7.500.402** |
| 36 µm | **7.500.003** | **7.500.103** | **7.500.203** | **7.500.303** | **7.500.403** |
| 38 µm | **7.500.004** | **7.500.104** | **7.500.204** | **7.500.304** | **7.500.404** |
| 40 µm | **7.500.005** | **7.500.105** | **7.500.205** | **7.500.305** | **7.500.405** |
| 45 µm | **7.500.006** | **7.500.106** | **7.500.206** | **7.500.306** | **7.500.406** |
| 50 µm | **7.500.007** | **7.500.107** | **7.500.207** | **7.500.307** | **7.500.407** |
| 53 µm | **7.500.008** | **7.500.108** | **7.500.208** | **7.500.308** | **7.500.408** |
| 56 µm | **7.500.009** | **7.500.109** | **7.500.209** | **7.500.309** | **7.500.409** |
| 63 µm | **7.500.010** | **7.500.110** | **7.500.210** | **7.500.310** | **7.500.410** |
| 71 µm | **7.500.011** | **7.500.111** | **7.500.211** | **7.500.311** | **7.500.411** |
| 75 µm | **7.500.012** | **7.500.112** | **7.500.212** | **7.500.312** | **7.500.412** |
| 80 µm | **7.500.013** | **7.500.113** | **7.500.213** | **7.500.313** | **7.500.413** |
| 90 µm | **7.500.014** | **7.500.114** | **7.500.214** | **7.500.314** | **7.500.414** |
| 100 µm | **7.500.015** | **7.500.115** | **7.500.215** | **7.500.315** | **7.500.415** |
| 106 µm | **7.500.016** | **7.500.116** | **7.500.216** | **7.500.316** | **7.500.416** |
| 112 µm | **7.500.017** | **7.500.117** | **7.500.217** | **7.500.317** | **7.500.417** |
| 125 µm | **7.500.018** | **7.500.118** | **7.500.218** | **7.500.318** | **7.500.418** |
| 140 µm | **7.500.019** | **7.500.119** | **7.500.219** | **7.500.319** | **7.500.419** |
| 150 µm | **7.500.020** | **7.500.120** | **7.500.220** | **7.500.320** | **7.500.420** |
| 160 µm | **7.500.021** | **7.500.121** | **7.500.221** | **7.500.321** | **7.500.421** |
| 180 µm | **7.500.022** | **7.500.122** | **7.500.222** | **7.500.322** | **7.500.422** |
| 200 µm | **7.500.023** | **7.500.123** | **7.500.223** | **7.500.323** | **7.500.423** |
| 212 µm | **7.500.024** | **7.500.124** | **7.500.224** | **7.500.324** | **7.500.424** |
| 224 µm | **7.500.025** | **7.500.125** | **7.500.225** | **7.500.325** | **7.500.425** |
| 250 µm | **7.500.026** | **7.500.126** | **7.500.226** | **7.500.326** | **7.500.426** |
| 280 µm | **7.500.027** | **7.500.127** | **7.500.227** | **7.500.327** | **7.500.427** |
| 300 µm | **7.500.028** | **7.500.128** | **7.500.228** | **7.500.328** | **7.500.428** |
| 315 µm | **7.500.029** | **7.500.129** | **7.500.229** | **7.500.329** | **7.500.429** |
| 355 µm | **7.500.030** | **7.500.130** | **7.500.230** | **7.500.330** | **7.500.430** |
| 400 µm | **7.500.031** | **7.500.131** | **7.500.231** | **7.500.331** | **7.500.431** |
| 425 µm | **7.500.032** | **7.500.132** | **7.500.232** | **7.500.332** | **7.500.432** |
| 450 µm | **7.500.033** | **7.500.133** | **7.500.233** | **7.500.333** | **7.500.433** |
| 500 µm | **7.500.034** | **7.500.134** | **7.500.234** | **7.500.334** | **7.500.434** |
| 600 µm | **7.500.035** | **7.500.135** | **7.500.235** | **7.500.335** | **7.500.435** |
| 630 µm | **7.500.036** | **7.500.136** | **7.500.236** | **7.500.336** | **7.500.436** |
| 710 µm | **7.500.037** | **7.500.137** | **7.500.237** | **7.500.337** | **7.500.437** |
| 800 µm | **7.500.038** | **7.500.138** | **7.500.238** | **7.500.338** | **7.500.438** |
| 850 µm | **7.500.039** | **7.500.139** | **7.500.239** | **7.500.339** | **7.500.439** |
| 900 µm | **7.500.040** | **7.500.140** | **7.500.240** | **7.500.340** | **7.500.440** |
| 1.00 mm | **7.500.041** | **7.500.141** | **7.500.241** | **7.500.341** | **7.500.441** |
| 1.12 mm | **7.500.042** | **7.500.142** | **7.500.242** | **7.500.342** | **7.500.442** |
| 1.18 mm | **7.500.043** | **7.500.143** | **7.500.243** | **7.500.343** | **7.500.443** |
| 1.25 mm | **7.500.044** | **7.500.144** | **7.500.244** | **7.500.344** | **7.500.444** |
| 1.40 mm | **7.500.045** | **7.500.145** | **7.500.245** | **7.500.345** | **7.500.445** |
| 1.60 mm | **7.500.046** | **7.500.146** | **7.500.246** | **7.500.346** | **7.500.446** |
| 1.70 mm | **7.500.047** | **7.500.147** | **7.500.247** | **7.500.347** | **7.500.447** |
| 1.80 mm | **7.500.048** | **7.500.148** | **7.500.248** | **7.500.348** | **7.500.448** |
| 2.00 mm | **7.500.049** | **7.500.149** | **7.500.249** | **7.500.349** | **7.500.449** |
| 2.24 mm | **7.500.050** | **7.500.150** | **7.500.250** | **7.500.350** | **7.500.450** |
| 2.36 mm | **7.500.051** | **7.500.151** | **7.500.251** | **7.500.351** | **7.500.451** |
| 2.50 mm | **7.500.052** | **7.500.152** | **7.500.252** | **7.500.352** | **7.500.452** |
| 2.80 mm | **7.500.053** | **7.500.153** | **7.500.253** | **7.500.353** | **7.500.453** |
| 3.15 mm | **7.500.054** | **7.500.154** | **7.500.254** | **7.500.354** | **7.500.454** |
| 3.55 mm | **7.500.055** | **7.500.155** | **7.500.255** | **7.500.355** | **7.500.455** |
| 4.00 mm | **7.500.056** | **7.500.156** | **7.500.256** | **7.500.356** | **7.500.456** |
| 4.50 mm | **7.500.057** | **7.500.157** | **7.500.257** | **7.500.357** | **7.500.457** |
| 4.75 mm | **7.500.058** | **7.500.158** | **7.500.258** | **7.500.358** | **7.500.458** |
| 5.00 mm | **7.500.059** | **7.500.159** | **7.500.259** | **7.500.359** | **7.500.459** |
| 5.60 mm | **7.500.060** | **7.500.160** | **7.500.260** | **7.500.360** | **7.500.460** |
| 6.30 mm | **7.500.061** | **7.500.161** | **7.500.261** | **7.500.361** | **7.500.461** |
| 6.70 mm | **7.500.062** | **7.500.162** | **7.500.262** | **7.500.362** | **7.500.462** |
| 7.10 mm | **7.500.063** | **7.500.163** | **7.500.263** | **7.500.363** | **7.500.463** |
| 8.00 mm | **7.500.064** | **7.500.164** | **7.500.264** | **7.500.364** | **7.500.464** |
| 9.00 mm | **7.500.065** | **7.500.165** | **7.500.265** | **7.500.365** | **7.500.465** |
| 9.50 mm | **7.500.066** | **7.500.166** | **7.500.266** | **7.500.366** | **7.500.466** |

| Mesh<br>*Maille* | Ø 100<br>H. 40 | Ø 150<br>H. 40 | Ø 200<br>H. 25 | Ø 250<br>H. 50 | Ø 305<br>H. 40 |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm |
| 10.00 mm | **7.500.067** | **7.500.167** | **7.500.267** | **7.500.367** | **7.500.467** |
| 11.20 mm | **7.500.068** | **7.500.168** | **7.500.268** | **7.500.368** | **7.500.468** |
| 12.50 mm | **7.500.069** | **7.500.169** | **7.500.269** | **7.500.369** | **7.500.469** |
| 13.20 mm | **7.500.070** | **7.500.170** | **7.500.270** | **7.500.370** | **7.500.470** |
| 14.00 mm | **7.500.071** | **7.500.171** | **7.500.271** | **7.500.371** | **7.500.471** |
| 16.00 mm | **7.500.072** | **7.500.172** | **7.500.272** | **7.500.372** | **7.500.472** |
| 18.00 mm | **7.500.073** | **7.500.173** | **7.500.273** | **7.500.373** | **7.500.473** |
| 19.00 mm | **7.500.074** | **7.500.174** | **7.500.274** | **7.500.374** | **7.500.474** |
| 20.00 mm | **7.500.075** | **7.500.175** | **7.500.275** | **7.500.375** | **7.500.475** |
| 22.40 mm | **7.500.076** | **7.500.176** | **7.500.276** | **7.500.376** | **7.500.476** |
| 25.00 mm | **7.500.077** | **7.500.177** | **7.500.277** | **7.500.377** | **7.500.477** |
| 26.50 mm | **7.500.078** | **7.500.178** | **7.500.278** | **7.500.378** | **7.500.478** |
| 28.00 mm | **7.500.079** | **7.500.179** | **7.500.279** | **7.500.379** | **7.500.479** |
| 31.50 mm | **7.500.080** | **7.500.180** | **7.500.280** | **7.500.380** | **7.500.480** |
| 35.50 mm | **7.500.081** | **7.500.181** | **7.500.281** | **7.500.381** | **7.500.481** |
| 37.50 mm | **7.500.082** | **7.500.182** | **7.500.282** | **7.500.382** | **7.500.482** |
| 40.00 mm | **7.500.083** | **7.500.183** | **7.500.283** | **7.500.383** | **7.500.483** |
| 45.00 mm | **7.500.084** | **7.500.184** | **7.500.284** | **7.500.384** | **7.500.484** |
| **Accessories /** *Accessoires* | | | | | |
| Collecting pan / *Fond de recueil* | **7.500.090** | **7.500.190** | **7.500.290** | **7.500.390** | **7.500.490** |
| Collecting pan with outlet / *Fond de recueil avec écoulement pour voie humide* | **7.500.091** | **7.500.191** | **7.500.291** | **7.500.391** | **7.500.491** |
| Cover / *Couvercle* | **7.500.092** | **7.500.192** | **7.500.292** | **7.500.392** | **7.500.492** |





**7.500.*90**



**7.500.*91**



**7.500.*92**

## NIST tracable Sieve standards

## *Etalons certifiés pour tamis*

**Narrow distribution glass microspheres, for sieves of 200 mm dia.**
- Unique method of calibrating all sieves from 20 µm – 3350 µm
- Accurate to 1µm for the smaller aperture sieves
- High speed calibration - complete in about 2 mins

***Microsphères en verre à étroite distribution, pour tamis de dia. 200 mm***
- *Unique méthode pour calibration de tous les tamis ISO ou ASTM de 20µm à 3350µm*
- *Précision jusqu'à 1 µm pour la petite taille*
- *Haute rapidité de calibration – complète en env. 2 minutes*

| For Sieve<br>*Pour tamis* | Mesh<br>*Maille* | Calibration Range<br>*Plage de calibration* | Wt. per Bottle<br>*Poids par flacon* | Set of 5 bottles<br>*Jeu de 5 flacons* |
|---|---|---|---|---|
| µm | | | g | |
| **20** | 635 | 18.8 - 23.7 | 0.8 | **7.500.600** |
| **25** | 500 | 21.7 - 30.2 | 0.8 | **7.500.601** |
| **32** | 450 | 27.8 - 34.1 | 1.0 | **7.500.602** |
| 36, **38**, 40 | 400 | 33.5 - 41.6 | 1.0 | **7.500.603** |
| **45**, 50 | 325 | 42.0 - 50.8 | 1.0 | **7.500.604** |
| **53**, 56 | 270 | 48.4 - 59.5 | 1.0 | **7.500.605** |
| **63** | 230 | 56.6 - 70.4 | 1.0 | **7.500.606** |
| 71, **75**, 80 | 200 | 67.1 - 82.8 | 1.0 | **7.500.607** |
| **90** | 170 | 78.8 - 97.6 | 1.0 | **7.500.608** |
| 100, **106**, 112 | 140 | 91.4 - 117 | 1.0 | **7.500.609** |
| **125** | 120 | 112 - 139 | 1.0 | **7.500.610** |
| 140, **150**, 160 | 100 | 134 - 169 | 1.5 | **7.500.611** |
| **180** | 80 | 161 - 199 | 1.5 | **7.500.612** |
| 200, **212**, 224 | 70 | 191 - 237 | 1.5 | **7.500.613** |
| **250**, 280 | 60 | 226 - 281 | 2.5 | **7.500.614** |
| **300**, 315 | 50 | 270 - 333 | 2.5 | **7.500.615** |
| **355** | 45 | 322 - 398 | 2.5 | **7.500.616** |
| 400, **425**, 450 | 40 | 377 - 470 | 2.5 | **7.500.617** |
| **500** | 35 | 440 – 557 | 2.5 | **7.500.618** |
| 560, **600**, 630 | 30 | 536 – 657 | 2.5 | **7.500.619** |
| **710** | 25 | 658 - 809 | 2.5 | **7.500.620** |
| 800, **850**, 900 | 20 | 774 - 951 | 2.5 | **7.500.621** |
| **1000** | 18 | 910 - 1106 | 7.0 | **7.500.622** |
| 1120, **1180**, 1250 | 16 | 1091 - 1335 | 10.0 | **7.500.623** |
| **1400**, 1550 | 14 | 1292 - 1609 | 15.0 | **7.500.624** |
| 1600, **1700**, 1800 | 12 | 1515 - 1866 | 15.0 | **7.500.625** |
| **2000** | 10 | 1836 - 2236 | 20.0 | **7.500.626** |
| 2240, **2360**, 2500 | 8 | 2148 - 2661 | 20.0 | **7.500.627** |
| **2800**, 3150 | 7 | 2555 - 3232 | 20.0 | **7.500.628** |
| **3350**, 3550 | 6 | 3072 - 3783 | 20.0 | **7.500.629** |

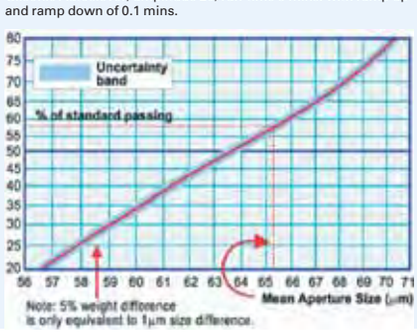





**Detailed methodology**

**a)** For 200mm diameter sieves down to 45 µm.
Assemble the sieve to be calibrated and the collecting pan on a balance accurate to 0.01g and tare. Add a complete bottle of the appropriate calibration standard and record the actual weight of the standard. Now shake on the pan with a large swirling action for 1 minute, then tap the frame a few times to detach near mesh particles. Without changing the tare on the balance, remove the undersize microspheres that have fallen through and reweigh the sieve assembly with the retained microspheres. From the percentage retained, calculate the percentage of the standard passing and read off the mean aperture size from the calibration graph supplied with the Test Certificate.

**b)** For Air Jet and Sonic sieving down to 20 µm.
Air Jet sieve, set vacuum to 2000 - 2200Pa and run for 3 minutes Gilsonic Autosiever, amplitude 20, run-time 3 mins. with ramp up and ramp down of 0.1 mins.



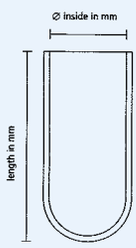
## Extraction thimbles
## *Cartouches d'extraction*

**Cellulose extraction thimbles**
Equivalent to: Whatman 2800 - MN 645
S&S 603

***Cartouches d'extraction en papier de cellulose***
*Equivalent à: Whatman 2800 - MN 645 - S&S 603*



**8.205.2*****




| Inner Ø x length<br>*Ø int. x Longueur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs | Order No.<br>*N° de code* |
|---|---|---|
| 16 x 100 | 25 | **8.205.200** |
| 19 x 90 | 25 | **8.205.201** |
| 20 x 45 | 25 | **8.205.202** |
| 22 x 50 | 25 | **8.205.203** |
| 22 x 60 | 25 | **8.205.204** |
| 22 x 80 | 25 | **8.205.205** |
| 22 x 100 | 25 | **8.205.206** |
| 23 x 80 | 25 | **8.205.207** |
| 24 x 110 | 25 | **8.205.208** |
| 25 x 65 | 25 | **8.205.209** |
| 25 x 70 | 25 | **8.205.210** |
| 25 x 80 | 25 | **8.205.211** |
| 25 x 100 | 25 | **8.205.212** |
| 26 x 60 * | 25 | **8.205.213** |
| 27 x 80 | 25 | **8.205.214** |
| 27 x 100 | 25 | **8.205.215** |
| 28 x 80 | 25 | **8.205.216** |
| 28 x 100 | 25 | **8.205.217** |
| 30 x 60 | 25 | **8.205.218** |
| 30 x 77 | 25 | **8.205.219** |
| 30 x 80 | 25 | **8.205.220** |
| 30 x 100 | 25 | **8.205.221** |
| 33 x 80 | 25 | **8.205.222** |
| 33 x 94 | 25 | **8.205.223** |
| 33 x 100 | 25 | **8.205.224** |
| 33 x 118 | 25 | **8.205.225** |
| 35 x 50 | 25 | **8.205.226** |
| 35 x 80 | 25 | **8.205.227** |
| 35 x 90 | 25 | **8.205.228** |
| 35 x 100 | 25 | **8.205.229** |
| 35 x 110 | 25 | **8.205.230** |
| 35 x 150 | 25 | **8.205.231** |
| 40 x 100 | 25 | **8.205.232** |
| 43 x 123 | 25 | **8.205.233** |
| 48 x 145 | 25 | **8.205.234** |
| 50 x 150 | 25 | **8.205.235** |
| 60 x 150 | 25 | **8.205.236** |

***Special dimensions Ø exterior x length. Thickness of the wall : 1 mm**
** Dimensions spéciales, avec épaisseur de paroie: 1 mm*

**Glass microfiber extraction thimbles**
Equivalent to: Whatman HP-GF - MN 649
S&S 649

***Cartouches d'extraction en microfibres de verre***
*Equivalent à: Whatman HP-GF - MN 649 - S&S 649*



**8.205.2****

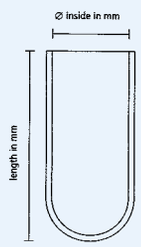
| Inner Ø x length<br>*Ø int. x Longueur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs | Order No.<br>*N° de code* |
|---|---|---|
| 10 x 50 | 25 | **8.205.250** |
| 19 x 90 | 25 | **8.205.251** |
| 22 x 80 | 25 | **8.205.252** |
| 26 x 60 | 25 | **8.205.253** |
| 26 x 80 | 25 | **8.205.254** |
| 30 x 80 | 25 | **8.205.255** |
| 30 x 100 | 25 | **8.205.256** |
| 33 x 80 | 25 | **8.205.257** |
| 33 x 94 | 25 | **8.205.258** |
| 35 x 150 | 25 | **8.205.259** |
| 43 x 123 | 25 | **8.205.260** |
| 53 x 145 | 25 | **8.205.261** |

**Quartz microfiber extraction thimbles** — *Cartouches d'extraction en microfibres de silice*

| Inner Ø x length<br>*Ø int. x Longueur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs | Order No.<br>*N° de code* |
|---|---|---|
| 19 x 90 | 25 | **8.205.270** |
| 22 x 65 | 25 | **8.205.271** |
| 22 x 70 | 25 | **8.205.272** |
| 25 x 70 | 25 | **8.205.273** |
| 25 x 100 | 25 | **8.205.274** |
| 26 x 60 | 25 | **8.205.275** |
| 30 x 77 | 25 | **8.205.276** |
| 30 x 80 | 25 | **8.205.277** |
| 30 x 100 | 25 | **8.205.278** |
| 30 x 110 | 25 | **8.205.279** |
| 34 x 150 | 25 | **8.205.280** |
| 35 x 150 | 25 | **8.205.281** |
| 43 x 123 | 25 | **8.205.282** |



**8.205.2****




## Filter papers
## *Filtres en papier*

Comparaison table / *Tableau comparatif*

| Order No. | Equivalent to | Order No. | Equivalent to |
|---|---|---|---|
| 8.206.000 - 041 | MN640w, S&S 589/1 | 8.208.600 - 680 | Whatman 1, MN616md, S&S593 |
| 8.206.050 - 091 | Whatman 41, MN640m, S&S 589/2 | 8.208.700 - 780 | Whatman 2 |
| 8.206.100 - 141 | Whatman 43, MN640md, S&S 589/5 | 8.208.800 - 880 | Whatman 6, MN619, S&S602 |
| 8.206.150 - 191 | Whatman 40, MN640d, S&S 589/6 | 8.208.900 - 980 | Whatman 5, MN619eh, S&S602eh |
| 8.206.200 - 241 | Whatman 44, MN640de, S&S589/3 | 8.209.000 - 030 | Whatman 3 |
| 8.206.250 - 291 | Whatman 42 | 8.210.100 - 128 | Whatman 1P/S, MN GF2, S&S597hy |
| 8.207.000 - 051 | Whatman 541, MN1640W, S&S1505 | 8.210.140 - 168 | S&S 79 |
| 8.207.020 - 035 | Whatman 540, MN1640m, S&S1506 | 8.210.400 - 415 | Whatman GF/A, MN GF1, S&S 50 |
| 8.207.040 - 055 | Whatman 542, MN1640de, S&S1507 | 8.210.420 - 435 | Whatman GF/B, MN GF2, S&S 51 |
| 8.208.000 - 062 | Whatman Sudent Grade, MN 713/615A | 8.210.440 - 455 | Whatman GF/C, MN GF3, S&S 52 |
| 8.208.100 - 142 | Whatman 113, MN818 | 8.210.460 - 475 | Whatman GF/D, MN GF4 |
| 8.208.200 - 242 | Whatman 113, MN65, MN818 | 8.210.480 - 495 | Whatman GF/F, MN GF |
| 8.208.300 - 362 | Whatman 91, MN692 | 8.210.500 - 515 | Whatman 934AH, MN GF6 |
| 8.208.400 - 480 | Whatman 4, MN617, S&S604 | 8.210.520 - 535 | Whatman QM-A, MN QF-10 |
| 8.208.500 - 580 | MN616, S&S597 | | |

**Quantitative filter papers, very fast, ribbon color black,** suitable for the filtration of thick precipitates such as $Fe(OH)_3$ - Al $(OH)_3$ $SiO_2$ – Cr $(OH)_3$ or gelatinous precipitates, gravimetric analysis of particles present in air, and the calculation of the content of silica in steel and iron. Equivalent to: MN 640w – S&S 589/1

***Papier-filtres pour analyses quantitatives, filtration très rapide, bande noire,*** *pour les précipitations de* $Fe(OH)_3$ - Al $(OH)_3$ - $SiO_2$ Cr $(OH)_3$ *ou gélatineux, analyses gravimétriques de particules dans l'air et à l'évaluation de la teneur en silice dans l'acier et le fer. Equivalent à: MN 640w – S&S 589/1*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Flat / *Plat* | Folded / *Plissé* | Sheet / *Feuille* |
|---|---|---|---|---|
| 25 | 100 | **8.206.000** | - | - |
| 42.5 | 100 | **8.206.001** | - | - |
| 47 | 100 | **8.206.002** | - | - |
| 50 | 100 | **8.206.003** | - | - |
| 55 | 100 | **8.206.004** | - | - |
| 70 | 100 | **8.206.005** | **8.206.025** | - |
| 90 | 100 | **8.206.006** | **8.206.026** | - |
| 110 | 100 | **8.206.007** | **8.206.027** | - |
| 125 | 100 | **8.206.008** | **8.206.028** | - |
| 150 | 100 | **8.206.009** | **8.206.029** | - |
| 185 | 100 | **8.206.010** | **8.206.030** | - |
| 200 | 100 | **8.206.011** | **8.206.031** | - |
| 240 | 100 | **8.206.012** | **8.206.032** | - |
| 250 | 100 | **8.206.013** | **8.206.033** | - |
| 270 | 100 | **8.206.014** | **8.206.034** | - |
| 320 | 100 | **8.206.015** | **8.206.035** | - |
| 203 x 254 | 100 | - | - | **8.206.040** |
| 460 x 570 | 100 | - | - | **8.206.041** |



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**8.206.*****

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**Quantitative filter papers, fast filtration, ribbon color white** suitable for finer precipitates such as silver sulfides, arsenic, cadmium, iron, lead and manganese Equivalent to: Whatman 41 - MN 640m S&S 589/2

***Papier-filtres pour analyses quantitatives, filtration rapide, bande blanche,*** *pour les précipitées fines telles que sulfures d'argent, arsenic, cadmium, fer, plomb et manganèse Equivalent à: Whatman 41 - MN 640m - S&S 589/2*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | | |
|---|---|---|---|---|
| 12.5 | 100 | **8.206.050** | - | - |
| 25 | 100 | **8.206.051** | - | - |
| 42.5 | 100 | **8.206.052** | - | - |
| 47 | 100 | **8.206.053** | - | - |
| 50 | 100 | **8.206.054** | - | - |
| 55 | 100 | **8.206.055** | - | - |
| 70 | 100 | **8.206.056** | **8.206.076** | - |
| 90 | 100 | **8.206.057** | **8.206.077** | - |
| 110 | 100 | **8.206.058** | **8.206.078** | - |
| 125 | 100 | **8.206.059** | **8.206.079** | - |
| 150 | 100 | **8.206.060** | **8.206.080** | - |
| 185 | 100 | **8.206.061** | **8.206.081** | - |
| 200 | 100 | **8.206.062** | **8.206.082** | - |
| 240 | 100 | **8.206.063** | **8.206.083** | - |
| 250 | 100 | **8.206.064** | **8.206.084** | - |
| 270 | 100 | **8.206.065** | **8.206.085** | - |
| 320 | 100 | **8.206.066** | **8.206.086** | - |
| 203 x 254 | 100 | - | - | **8.206.090** |
| 460 x 570 | 100 | - | - | **8.206.091** |



**Quantitative filter papers medium filtration, ribbon color red,** used in the calculation of Mg in waters or as quality standard in gravimeters and quantitatives analysis of all type of substances analyses of food and soils and in the quality control laboratories of the cement industry acc. to UNE 80-112-91 standard and EN-196-6 (Blaine test) for the calculation of the size grain of the cement. Equivalent to: Whatman 43 - MN 640md - S&S 589/5

***Papier-filtres pour analyses quantitatives, filtration moyenne, bande rouge,*** *pour l'évaluation du magnésium contenu dans les eaux ou pour les analyses gravimétriques et quantitatives des aliments et sols ainsi que pour l'évaluation de la granulométrie dans les cimenteries suivant la norme UNE 80-112-91 et EN-196-6 (Test de Blaine). Equivalent à: Whatman 43 - MN 640md - S&S 589/5*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | | |
|---|---|---|---|---|
| 12.5 | 100 | **8.206.100** | - | - |
| 25 | 100 | **8.206.101** | - | - |
| 42.5 | 100 | **8.206.102** | - | - |
| 47 | 100 | **8.206.103** | - | - |
| 50 | 100 | **8.206.104** | - | - |
| 55 | 100 | **8.206.105** | - | - |
| 70 | 100 | **8.206.106** | **8.206.126** | - |
| 90 | 100 | **8.206.107** | **8.206.127** | - |
| 110 | 100 | **8.206.108** | **8.206.128** | - |
| 125 | 100 | **8.206.109** | **8.206.129** | - |
| 150 | 100 | **8.206.110** | **8.206.130** | - |
| 185 | 100 | **8.206.111** | **8.206.131** | - |
| 200 | 100 | **8.206.112** | **8.206.132** | - |
| 240 | 100 | **8.206.113** | **8.206.133** | - |
| 250 | 100 | **8.206.114** | **8.206.134** | - |
| 270 | 100 | **8.206.115** | **8.206.135** | - |
| 320 | 100 | **8.206.116** | **8.206.136** | - |
| 203 x 254 | 100 | - | - | **8.206.140** |
| 460 x 570 | 100 | - | - | **8.206.141** |



**8.206.*****

**Quantitative filter papers medium slow filtration, ribbon color green,** used in the gravimetric analysis of various components in materials such as cements, sludge, aqueous extract of soils, the determinations of oils in waters and sediments in milk. Equivalent to: Whatman 40 - MN 640d S&S 589/6

***Papier-filtres pour analyses quantitatives, filtration lente-moyenne, bande verte,*** *pour analyses gravimétriques diverses telles que ciments, boues, sols aqueux, la détermination des huiles dans l'eau et des sédiments dans le lait. Equivalent à: Whatman 40 - MN 640d - S&S 589/6*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | Flat | Folded | Sheet |
|---|---|---|---|---|
| 12.5 | 100 | **8.206.150** | - | - |
| 25 | 100 | **8.206.151** | - | - |
| 42.5 | 100 | **8.206.152** | - | - |
| 47 | 100 | **8.206.153** | - | - |
| 50 | 100 | **8.206.154** | - | - |
| 55 | 100 | **8.206.155** | - | - |
| 70 | 100 | **8.206.156** | **8.206.176** | - |
| 90 | 100 | **8.206.157** | **8.206.177** | - |
| 110 | 100 | **8.206.158** | **8.206.178** | - |
| 125 | 100 | **8.206.159** | **8.206.179** | - |
| 150 | 100 | **8.206.160** | **8.206.180** | - |
| 185 | 100 | **8.206.161** | **8.206.181** | - |
| 200 | 100 | **8.206.162** | **8.206.182** | - |
| 240 | 100 | **8.206.163** | **8.206.183** | - |
| 250 | 100 | **8.206.164** | **8.206.184** | - |
| 270 | 100 | **8.206.165** | **8.206.185** | - |
| 320 | 100 | **8.206.166** | **8.206.186** | - |
| 203 x 254 | 100 | - | - | **8.206.190** |
| 460 x 570 | 100 | - | - | **8.206.191** |

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**Quantitative filter papers slow filtration, ribbon color blue** highly recommended for the analysis of insoluble particles in oils and animal or vegetal fats. Equivalent to: Whatman 44 - MN 640de - S&S 589/3

***Papier-filtres pour analyses quantitatives, filtration lente, bande bleue,*** *pour analyses de particules insolubles dans les huiles et graisses végétales ou animales. Equivalent à: Whatman 44 MN 640de - S&S 589/3*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | Flat | Folded | Sheet |
|---|---|---|---|---|
| 25 | 100 | **8.206.200** | - | - |
| 42.5 | 100 | **8.206.201** | - | - |
| 47 | 100 | **8.206.202** | - | - |
| 50 | 100 | **8.206.203** | - | - |
| 55 | 100 | **8.206.204** | - | - |
| 70 | 100 | **8.206.205** | **8.206.225** | - |
| 90 | 100 | **8.206.206** | **8.206.226** | - |
| 110 | 100 | **8.206.207** | **8.206.227** | - |
| 125 | 100 | **8.206.208** | **8.206.228** | - |
| 150 | 100 | **8.206.209** | **8.206.229** | - |
| 185 | 100 | **8.206.210** | **8.206.230** | - |
| 200 | 100 | **8.206.211** | **8.206.231** | - |
| 240 | 100 | **8.206.212** | **8.206.232** | - |
| 250 | 100 | **8.206.213** | **8.206.233** | - |
| 270 | 100 | **8.206.214** | **8.206.234** | - |
| 320 | 100 | **8.206.215** | **8.206.235** | - |
| 203 x 254 | 100 | - | - | **8.206.240** |
| 460 x 570 | 100 | - | - | **8.206.241** |



**8.206.*****

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**8.206.*****

**Quantitative filter papers**
**very slow filtration** used for the filtration of mainly difficult sample. Equivalent to: Whatman 42

***Papier-filtres pour analyses quantitatives, filtration très lente*** *pour analyses d'échantillons complexes. Equivalent à: Whatman 42*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | | |
|---|---|---|---|---|
| 25 | 100 | **8.206.250** | - | - |
| 42.5 | 100 | **8.206.251** | - | - |
| 47 | 100 | **8.206.252** | - | - |
| 50 | 100 | **8.206.253** | - | - |
| 55 | 100 | **8.206.254** | - | - |
| 70 | 100 | **8.206.255** | **8.206.275** | - |
| 90 | 100 | **8.206.256** | **8.206.276** | - |
| 110 | 100 | **8.206.257** | **8.206.277** | - |
| 125 | 100 | **8.206.258** | **8.206.278** | - |
| 150 | 100 | **8.206.259** | **8.206.279** | - |
| 185 | 100 | **8.206.260** | **8.206.280** | - |
| 200 | 100 | **8.206.261** | **8.206.281** | - |
| 240 | 100 | **8.206.262** | **8.206.282** | - |
| 250 | 100 | **8.206.263** | **8.206.283** | - |
| 270 | 100 | **8.206.264** | **8.206.284** | - |
| 320 | 100 | **8.206.265** | **8.206.285** | - |
| 203 x 254 | 100 | - | - | **8.206.290** |
| 460 x 570 | 100 | - | - | **8.206.291** |

**Quantitative filter papers, very fast** for use with thick precipitates like iron hydroxides, aluminium, copper, copper sulfides, cobalt or iron. Equivalent to: Whatman 541
MN 1640w - S&S 1505

***Papier-filtres pour analyses quantitatives, filtration très rapide*** *pour les précipitations épaisses telles que les hydroxides d'aluminium, cuivre, sufites, cobalt et fer. Equivalent à: Whatman 541 - MN 1640w - S&S 1505*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | |
|---|---|---|---|
| 25 | 100 | **8.207.000** | - |
| 42.5 | 100 | **8.207.001** | - |
| 47 | 100 | **8.207.002** | - |
| 50 | 100 | **8.207.003** | - |
| 55 | 100 | **8.207.004** | - |
| 70 | 100 | **8.207.005** | - |
| 90 | 100 | **8.207.006** | - |
| 110 | 100 | **8.207.007** | - |
| 125 | 100 | **8.207.008** | - |
| 150 | 100 | **8.207.009** | - |
| 185 | 100 | **8.207.010** | - |
| 200 | 100 | **8.207.011** | - |
| 240 | 100 | **8.207.012** | - |
| 460 x 570 | 100 | - | **8.207.015** |

**Quantitative filter papers**
**medium filtration** for the quick retention of fine or medium precipitates such as the thick particles of barium sulphate or some phosphates. Equivalent to: Whatman 540
MN 1640m - S&S 1506

***Papier-filtres pour analyses quantitatives, filtration moyenne*** *pour rétention rapide de précipitités fines et moyennes telles que les particules épaisses de sulfate de barium ou de certains phosphates. Equivalent à: Whatman 540 - MN 1640m - S&S 1506*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | |
|---|---|---|---|
| 25 | 100 | **8.207.020** | - |
| 42.5 | 100 | **8.207.021** | - |
| 47 | 100 | **8.207.022** | - |
| 50 | 100 | **8.207.023** | - |
| 55 | 100 | **8.207.024** | - |
| 70 | 100 | **8.207.025** | - |
| 90 | 100 | **8.207.026** | - |
| 110 | 100 | **8.207.027** | - |
| 125 | 100 | **8.207.028** | - |
| 150 | 100 | **8.207.029** | - |
| 185 | 100 | **8.207.030** | - |
| 200 | 100 | **8.207.031** | - |
| 240 | 100 | **8.207.032** | - |
| 460 x 570 | 100 | - | **8.207.035** |

**Quantitative filter papers slow filtration** for the filtration of difficult samples or in those with very fine precipitates. Equivalent to: Whatman 542 MN 1640de S&S 1507

***Papier-filtres pour analyses quantitatives, filtration lente*** *pour filtration d'échantillons complexes. Equivalent à: Whatman 542 MN 1640de - S&S 1507*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | |
|---|---|---|---|
| 25 | 100 | **8.207.040** | - |
| 42.5 | 100 | **8.207.041** | - |
| 47 | 100 | **8.207.042** | - |
| 50 | 100 | **8.207.043** | - |
| 55 | 100 | **8.207.044** | - |
| 70 | 100 | **8.207.045** | - |
| 90 | 100 | **8.207.046** | - |
| 110 | 100 | **8.207.047** | - |
| 125 | 100 | **8.207.048** | - |
| 150 | 100 | **8.207.049** | - |
| 185 | 100 | **8.207.050** | - |
| 200 | 100 | **8.207.051** | - |
| 240 | 100 | **8.207.052** | - |
| 460 x 570 | 100 | - | **8.207.055** |

**Qualitative filter paper very fast filtration,** smooth, with good retention of medium and thick particles, good load capacity and excellent resistance of the moist state, used in industry, hospitals, education, research. Equivalent to: Whatman Student grade and MN 713/615A

***Papier-filtres pour analysis qualitatives filtration très rapide,*** *lisse, à excellente rétention de particles moyennes et épaisses, excellente charge et résistance en état humide, utilisés dans l'industrie, les hôpitaux, l'enseignement et la recherche. Equivalent à: Whatman Student grade et MN 713/615A*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 42.5 | 100 | **8.208.000** | - | - | - |
| 47 | 100 | **8.208.001** | - | - | - |
| 50 | 100 | **8.208.002** | - | - | - |
| 55 | 100 | **8.208.003** | - | - | - |
| 70 | 100 | **8.208.004** | **8.208.024** | **8.208.044** | - |
| 90 | 100 | **8.208.005** | **8.208.025** | **8.208.045** | - |
| 110 | 100 | **8.208.006** | **8.208.026** | **8.208.046** | - |
| 125 | 100 | **8.208.007** | **8.208.027** | **8.208.047** | - |
| 150 | 100 | **8.208.008** | **8.208.028** | **8.208.048** | - |
| 185 | 100 | **8.208.009** | **8.208.029** | **8.208.049** | - |
| 200 | 100 | **8.208.010** | **8.208.030** | **8.208.050** | - |
| 250 | 100 | **8.208.011** | **8.208.031** | **8.208.051** | - |
| 300 | 100 | **8.208.012** | **8.208.032** | **8.208.052** | - |
| 320 | 100 | **8.208.013** | **8.208.033** | - | - |
| 350 | 100 | **8.208.014** | **8.208.034** | - | - |
| 400 | 100 | **8.208.015** | **8.208.035** | - | - |
| 450 | 100 | **8.208.016** | **8.208.036** | - | - |
| 500 | 100 | **8.208.017** | **8.208.037** | - | - |
| 650 | 100 | **8.208.018** | **8.208.038** | - | - |
| 320 x 420 | 100 | - | - | - | **8.208.060** |
| 420 x 520 | 100 | - | - | - | **8.208.061** |
| 460 x 570 | 100 | - | - | - | **8.208.062** |

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**8.208.*****

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**Sheet /** *Feuille*

**Qualitative filter paper extra-fast filtration** thick, smooth with excellent load capacity and low apparent density used in production processes and in the filtration of viscous liquids, essences, syrups, fats, dense oils. Equivalent to: Whatman 113 - MN 818

***Papier-filtres pour analysis qualitatives filtration extra- rapide,*** *épais et lisse, d'excellente capacité de charge et faible densité apparente, utilisés en production et dans la filtrations de liquides visqueux, essences, sirops, graisses et huiles denses. Equivalent à: Whatman 113 - MN 818*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | | |
|---|---|---|---|---|
| 42.5 | 100 | **8.208.100** | - | - |
| 47 | 100 | **8.208.101** | - | - |
| 50 | 100 | **8.208.102** | - | - |
| 55 | 100 | **8.208.103** | - | - |
| 70 | 100 | **8.208.104** | **8.208.124** | - |
| 90 | 100 | **8.208.105** | **8.208.125** | - |
| 110 | 100 | **8.208.106** | **8.208.126** | - |
| 125 | 100 | **8.208.107** | **8.208.127** | - |
| 150 | 100 | **8.208.108** | **8.208.128** | - |
| 185 | 100 | **8.208.109** | **8.208.129** | - |
| 200 | 100 | **8.208.110** | **8.208.130** | - |
| 250 | 100 | **8.208.111** | **8.208.131** | - |
| 300 | 100 | **8.208.112** | **8.208.132** | - |
| 320 | 100 | **8.208.113** | **8.208.133** | - |
| 350 | 100 | **8.208.114** | **8.208.134** | - |
| 400 | 100 | **8.208.115** | **8.208.135** | - |
| 450 | 100 | **8.208.116** | **8.208.136** | - |
| 500 | 100 | **8.208.117** | **8.208.137** | - |
| 650 | 100 | **8.208.118** | **8.208.138** | - |
| 320 x 420 | 100 | - | - | **8.208.140** |
| 420 x 520 | 100 | - | - | **8.208.141** |
| 460 x 570 | 100 | - | - | **8.208.142** |



**8.208.*****

**Qualitative filter paper very fast filtration,** thick and creased, with excellent load capacity and recommended in filtrations and clarifications of production processes of thick or dry liquids or in the cleaning of difficult samples. Flat filters and sheets are equivalent to MN 65. Folded filters are equivalent to Whatman 113 and MN 818

***Papier-filtres pour analysis qualitatives filtration très rapide,*** *épais et fripé, excellente capacité de charge et recommandés dans les filtrations et clarifications de produits épais et liquides secs en procès ou aussi dans le lavage d'échantillons complexes. Filtres en disque équivalent à MN 65. Filtres plissés équivalent à Whatman 113 et MN 818*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | | |
|---|---|---|---|---|
| 70 | 100 | **8.208.200** | - | - |
| 90 | 100 | **8.208.201** | - | - |
| 100 | 100 | **8.208.202** | **8.208.222** | - |
| 110 | 100 | **8.208.203** | - | - |
| 125 | 100 | **8.208.204** | - | - |
| 130 | 100 | **8.208.205** | **8.208.225** | - |
| 150 | 100 | **8.208.206** | **8.208.226** | - |
| 185 | 100 | **8.208.207** | - | - |
| 200 | 100 | **8.208.208** | **8.208.228** | - |
| 250 | 100 | **8.208.209** | **8.208.229** | - |
| 300 | 100 | **8.208.210** | **8.208.230** | - |
| 320 | 100 | **8.208.211** | **8.208.231** | - |
| 350 | 100 | **8.208.212** | **8.208.232** | - |
| 400 | 100 | **8.208.213** | **8.208.233** | - |
| 450 | 100 | **8.208.214** | **8.208.234** | - |
| 500 | 100 | **8.208.215** | **8.208.235** | - |
| 650 | 100 | **8.208.216** | **8.208.236** | - |
| 320 x 420 | 100 | - | - | **8.208.240** |
| 420 x 520 | 100 | - | - | **8.208.241** |
| 460 x 570 | 100 | - | - | **8.208.242** |

**Qualitative filter paper very fast filtration,** creased, used in the sugar industry and mainly for the clarification of samples after the addition of lead acetate for the subsequent calculation of sucrose content. Equivalent to: Whatman 91 and MN 692

***Papier-filtres pour analysis qualitatives filtration très rapide,*** *fripé, utilisés dans l'industrie sucrière et principalement dans la clarification d'échantillons après addition d'acétate de plomb pour mesure de la teneur en sucrose. Equivalent à: Whatman 91 - MN 692*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 70 | 100 | **8.208.300** | **8.208.320** | - | - |
| 90 | 100 | **8.208.301** | **8.208.321** | - | - |
| 100 | 100 | **8.208.302** | **8.208.322** | - | - |
| 110 | 100 | **8.208.303** | **8.208.323** | - | - |
| 125 | 100 | **8.208.304** | **8.208.324** | - | - |
| 130 | 100 | **8.208.305** | **8.208.325** | **8.208.345** | - |
| 150 | 100 | **8.208.306** | **8.208.326** | **8.208.346** | - |
| 185 | 100 | **8.208.307** | **8.208.327** | **8.208.347** | - |
| 200 | 100 | **8.208.308** | **8.208.328** | **8.208.348** | - |
| 250 | 100 | **8.208.309** | **8.208.329** | **8.208.349** | - |
| 300 | 100 | **8.208.310** | **8.208.330** | **8.208.350** | - |
| 320 | 100 | **8.208.311** | **8.208.331** | - | - |
| 350 | 100 | **8.208.312** | **8.208.332** | - | - |
| 400 | 100 | **8.208.313** | **8.208.333** | - | - |
| 450 | 100 | **8.208.314** | **8.208.334** | - | - |
| 500 | 100 | **8.208.315** | **8.208.335** | - | - |
| 650 | 100 | **8.208.316** | **8.208.336** | - | - |
| 320 x 420 | 100 | - | - | - | **8.208.360** |
| 420 x 520 | 100 | - | - | - | **8.208.361** |
| 460 x 570 | 100 | - | - | - | **8.208.362** |

**Qualitative filter papers, low ash content,** very fast filtration, good retention of thick or gelatinous precipitates such as silver sulphides, arsenic, lead, iron etc. Used also in the calculation of silicones in crude iron and steel. Equivalent to: Whatman 4 - MN 617 - S&S 604

***Papier-filtres pour analysis qualitatives, à faible teneur en cendres,*** *filtration très rapide, excellente rétention de précipitations épaisses ou gélatineuses telles que sulfures d'argent, arsenic, plomb, fer etc. Utilisés aussi pour l'évaluation des silices dans le fer et acier brut. Equivalent à: Whatman 4 - MN 617 - S&S 604*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 42.5 | 100 | **8.208.400** | - | - | - |
| 47 | 100 | **8.208.401** | - | - | - |
| 50 | 100 | **8.208.402** | - | - | - |
| 55 | 100 | **8.208.403** | - | - | - |
| 70 | 100 | **8.208.404** | **8.208.434** | **8.208.464** | - |
| 90 | 100 | **8.208.405** | **8.208.435** | **8.208.465** | - |
| 110 | 100 | **8.208.406** | **8.208.436** | **8.208.466** | - |
| 125 | 100 | **8.208.407** | **8.208.437** | **8.208.467** | - |
| 130 | 100 | **8.208.408** | **8.208.438** | **8.208.468** | - |
| 150 | 100 | **8.208.409** | **8.208.439** | **8.208.469** | - |
| 185 | 100 | **8.208.410** | **8.208.440** | **8.208.470** | - |
| 200 | 100 | **8.208.411** | **8.208.441** | **8.208.471** | - |
| 240 | 100 | **8.208.412** | **8.208.442** | **8.208.472** | - |
| 250 | 100 | **8.208.413** | **8.208.443** | **8.208.473** | - |
| 300 | 100 | **8.208.414** | **8.208.444** | **8.208.474** | - |
| 320 | 100 | **8.208.415** | **8.208.445** | - | - |
| 350 | 100 | **8.208.416** | **8.208.446** | - | - |
| 400 | 100 | **8.208.417** | **8.208.447** | - | - |
| 450 | 100 | **8.208.418** | **8.208.448** | - | - |
| 500 | 100 | **8.208.419** | **8.208.449** | - | - |
| 650 | 100 | **8.208.420** | **8.208.050** | - | - |
| 460 x 570 | 100 | - | - | - | **8.208.480** |

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**8.208.*****

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**Qualitative filter papers, low ash content,** fast filtration, for analytical purposes with thick precipitates such as silver sulphides, arsenic, antimony, cadmium, lead or alkaline-earth carbonates
Equivalent to: MN 616 - S&S 597

***Papier-filtres pour analysis qualitatives, à faible teneur en cendres,*** *filtration rapide, excellente rétention des précipitations épaisses telles que sulfures d'argent, arsenic, antimoine, cadmium, plomb ou carbonates alcalino-terreux.*
*Equivalent à: MN 616 - S&S 597*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 42.5 | 100 | **8.208.500** | - | - | - |
| 47 | 100 | **8.208.501** | - | - | - |
| 50 | 100 | **8.208.502** | - | - | - |
| 55 | 100 | **8.208.503** | - | - | - |
| 70 | 100 | **8.208.504** | **8.208.534** | **8.208.564** | - |
| 90 | 100 | **8.208.505** | **8.208.535** | **8.208.565** | - |
| 110 | 100 | **8.208.506** | **8.208.536** | **8.208.566** | - |
| 125 | 100 | **8.208.507** | **8.208.537** | **8.208.567** | - |
| 130 | 100 | **8.208.508** | **8.208.538** | **8.208.568** | - |
| 150 | 100 | **8.208.509** | **8.208.539** | **8.208.569** | - |
| 185 | 100 | **8.208.510** | **8.208.540** | **8.208.570** | - |
| 200 | 100 | **8.208.511** | **8.208.541** | **8.208.571** | - |
| 240 | 100 | **8.208.512** | **8.208.542** | **8.208.572** | - |
| 250 | 100 | **8.208.513** | **8.208.543** | **8.208.573** | - |
| 300 | 100 | **8.208.514** | **8.208.544** | **8.208.574** | - |
| 320 | 100 | **8.208.515** | **8.208.545** | - | - |
| 350 | 100 | **8.208.516** | **8.208.546** | - | - |
| 400 | 100 | **8.208.517** | **8.208.547** | - | - |
| 450 | 100 | **8.208.518** | **8.208.548** | - | - |
| 500 | 100 | **8.208.519** | **8.208.549** | - | - |
| 650 | 100 | **8.208.520** | **8.208.550** | - | - |
| 460 x 570 | 100 | - | - | - | **8.208.580** |



**8.208.*****

**Qualitative filter papers, low ash content,** medium filtration, good retention of particles such as calcium oxalate and some metallic sulphides. Recommended for the analyses of beer and malt.
Equivalent to: Whatman 1 - MN 616md S&S 593

***Papier-filtres pour analysis qualitatives, à faible teneur en cendres,*** *filtration moyenne, excellente rétention des précipitations telles que l'oxalate de calcium et certains sulfures métalliques Recommandés pour les analyses de la bière et du malt. Equivalent à: Whatman 1 - MN 616md S&S 593*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 42.5 | 100 | **8.208.600** | - | - | - |
| 47 | 100 | **8.208.601** | - | - | - |
| 50 | 100 | **8.208.602** | - | - | - |
| 55 | 100 | **8.208.603** | - | - | - |
| 70 | 100 | **8.208.604** | **8.208.634** | **8.208.664** | - |
| 90 | 100 | **8.208.605** | **8.208.635** | **8.208.665** | - |
| 110 | 100 | **8.208.606** | **8.208.636** | **8.208.666** | - |
| 125 | 100 | **8.208.607** | **8.208.637** | **8.208.667** | - |
| 130 | 100 | **8.208.608** | **8.208.638** | **8.208.668** | - |
| 150 | 100 | **8.208.609** | **8.208.639** | **8.208.669** | - |
| 185 | 100 | **8.208.610** | **8.208.640** | **8.208.670** | - |
| 200 | 100 | **8.208.611** | **8.208.641** | **8.208.671** | - |
| 240 | 100 | **8.208.612** | **8.208.642** | **8.208.672** | - |
| 250 | 100 | **8.208.613** | **8.208.643** | **8.208.673** | - |
| 300 | 100 | **8.208.614** | **8.208.644** | **8.208.674** | - |
| 320 | 100 | **8.208.615** | **8.208.645** | - | - |
| 350 | 100 | **8.208.616** | **8.208.646** | - | - |
| 400 | 100 | **8.208.617** | **8.208.647** | - | - |
| 450 | 100 | **8.208.618** | **8.208.648** | - | - |
| 500 | 100 | **8.208.619** | **8.208.649** | - | - |
| 650 | 100 | **8.208.620** | **8.208.650** | - | - |
| 460 x 570 | 100 | - | - | - | **8.208.680** |

**Qualitative filter papers, low ash content,** medium-slow filtration, for the retention of fine precipitates such as barium sulphate in white-hot state, tin sulphide, nickel or zinc. Equivalent to: Whatman 2

***Papier-filtres pour analysis qualitatives, à faible teneur en cendres,*** *filtration moyenne-lente, excellente rétention des précipitations telles que le sulfate de barium, sulfure d'étain, nickel ou zinc. Equivalent à: Whatman 2*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 42.5 | 100 | **8.208.700** | - | - | - |
| 47 | 100 | **8.208.701** | - | - | - |
| 50 | 100 | **8.208.702** | - | - | - |
| 55 | 100 | **8.208.703** | - | - | - |
| 70 | 100 | **8.208.704** | **8.208.734** | **8.208.764** | - |
| 90 | 100 | **8.208.705** | **8.208.735** | **8.208.765** | - |
| 110 | 100 | **8.208.706** | **8.208.736** | **8.208.766** | - |
| 125 | 100 | **8.208.707** | **8.208.737** | **8.208.767** | - |
| 130 | 100 | **8.208.708** | **8.208.738** | **8.208.768** | - |
| 150 | 100 | **8.208.709** | **8.208.739** | **8.208.769** | - |
| 185 | 100 | **8.208.710** | **8.208.740** | **8.208.770** | - |
| 200 | 100 | **8.208.711** | **8.208.741** | **8.208.771** | - |
| 240 | 100 | **8.208.712** | **8.208.742** | **8.208.772** | - |
| 250 | 100 | **8.208.713** | **8.208.743** | **8.208.773** | - |
| 300 | 100 | **8.208.714** | **8.208.744** | **8.208.774** | - |
| 320 | 100 | **8.208.715** | **8.208.745** | - | - |
| 350 | 100 | **8.208.716** | **8.208.746** | - | - |
| 400 | 100 | **8.208.717** | **8.208.747** | - | - |
| 450 | 100 | **8.208.718** | **8.208.748** | - | - |
| 500 | 100 | **8.208.719** | **8.208.749** | - | - |
| 650 | 100 | **8.208.720** | **8.208.750** | - | - |
| 460 x 570 | 100 | - | - | - | **8.208.780** |

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**Qualitative filter papers, low ash content,** slow filtration, for very fine and semi-colloidal particles, for the cleaning of turbid suspensions and for the determination of insoluble material from some substances. Equivalent to: Whatman 6 - MN 619 - S&S 602

***Papier-filtres pour analysis qualitatives, à faible teneur en cendres,*** *filtration lente, pour des particules très fines et semi-colloidales, pour le nettoyage de suspensions troubles et pour la détermination de matières insolubles de certaines substances. Equivalent à: Whatman 6 - MN 619 S&S 602*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 42.5 | 100 | **8.208.800** | - | - | - |
| 47 | 100 | **8.208.801** | - | - | - |
| 50 | 100 | **8.208.802** | - | - | - |
| 55 | 100 | **8.208.803** | - | - | - |
| 70 | 100 | **8.208.804** | **8.208.834** | **8.208.864** | - |
| 90 | 100 | **8.208.805** | **8.208.835** | **8.208.865** | - |
| 110 | 100 | **8.208.806** | **8.208.836** | **8.208.866** | - |
| 125 | 100 | **8.208.807** | **8.208.837** | **8.208.867** | - |
| 130 | 100 | **8.208.808** | **8.208.838** | **8.208.868** | - |
| 150 | 100 | **8.208.809** | **8.208.839** | **8.208.869** | - |
| 185 | 100 | **8.208.810** | **8.208.840** | **8.208.870** | - |
| 200 | 100 | **8.208.811** | **8.208.841** | **8.208.871** | - |
| 240 | 100 | **8.208.812** | **8.208.842** | **8.208.872** | - |
| 250 | 100 | **8.208.813** | **8.208.843** | **8.208.873** | - |
| 300 | 100 | **8.208.814** | **8.208.844** | **8.208.874** | - |
| 320 | 100 | **8.208.815** | **8.208.845** | - | - |
| 350 | 100 | **8.208.816** | **8.208.846** | - | - |
| 400 | 100 | **8.208.817** | **8.208.847** | - | - |
| 450 | 100 | **8.208.818** | **8.208.848** | - | - |
| 500 | 100 | **8.208.819** | **8.208.849** | - | - |
| 650 | 100 | **8.208.820** | **8.208.850** | - | - |
| 460 x 570 | 100 | - | - | - | **8.208.880** |



**8.208.*****

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**Qualitative filter papers, low ash content,** very slow filtration, for the retention of very fine particles and recommended in the clarification of samples of wine and others with especially difficult suspensions. Equivalent to: Whatman 5 - MN 619eh - S&S 602eh

***Papier-filtres pour analysis qualitatives, à faible teneur en cendres,*** *filtration très lente, pour des particules très fines et recommandés dans la clarification d'échantillons de vin et autres suspensions spéciallement complexes. Equivalent à: Whatman 5 - MN 619eh - S&S 602eh*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | | | |
|---|---|---|---|---|---|
| 42.5 | 100 | **8.208.900** | - | - | - |
| 47 | 100 | **8.208.901** | - | - | - |
| 50 | 100 | **8.208.902** | - | - | - |
| 55 | 100 | **8.208.903** | - | - | - |
| 70 | 100 | **8.208.904** | **8.208.934** | **8.208.964** | - |
| 90 | 100 | **8.208.905** | **8.208.935** | **8.208.965** | - |
| 110 | 100 | **8.208.906** | **8.208.936** | **8.208.966** | - |
| 125 | 100 | **8.208.907** | **8.208.937** | **8.208.967** | - |
| 130 | 100 | **8.208.908** | **8.208.938** | **8.208.968** | - |
| 150 | 100 | **8.208.909** | **8.208.939** | **8.208.969** | - |
| 185 | 100 | **8.208.910** | **8.208.940** | **8.208.970** | - |
| 200 | 100 | **8.208.911** | **8.208.941** | **8.208.971** | - |
| 240 | 100 | **8.208.912** | **8.208.942** | **8.208.972** | - |
| 250 | 100 | **8.208.913** | **8.208.943** | **8.208.973** | - |
| 300 | 100 | **8.208.914** | **8.208.944** | **8.208.974** | - |
| 320 | 100 | **8.208.915** | **8.208.945** | - | - |
| 350 | 100 | **8.208.916** | **8.208.946** | - | - |
| 400 | 100 | **8.208.917** | **8.208.947** | - | - |
| 450 | 100 | **8.208.918** | **8.208.948** | - | - |
| 500 | 100 | **8.208.919** | **8.208.949** | - | - |
| 650 | 100 | **8.208.920** | **8.208.950** | - | - |
| 460 x 570 | 100 | - | - | - | **8.208.980** |



**8.208.*****

**Qualitative filter papers, low ash content,** medium-slow filtration, thick and smooth, with good resistance to the moist state and excellent load capacity. Suitable for the retention of particles of fine size et indicated in the transport of samples or the separation of elements by means of electrophoresis . Equivalent to: Whatman 3

***Papier-filtres pour analysis qualitatives, à faible teneur en cendres,*** *filtration moyennement lente, épais et lisse, excellente résistance en état humide et capacité de charge. Recommandés pour la rétention de particles à taille fine et dans le transport d'échantillons ou pour la séparation électrophorétique d'éléments. Equivalent à: Whatman 3*

| Dimensions *Dimensions* mm | Standard pack *Conditionnement* pcs. | | |
|---|---|---|---|
| 42.5 | 100 | **8.209.000** | - |
| 47 | 100 | **8.209.001** | - |
| 50 | 100 | **8.209.002** | - |
| 55 | 100 | **8.209.003** | - |
| 70 | 100 | **8.209.004** | - |
| 90 | 100 | **8.209.005** | - |
| 110 | 100 | **8.209.006** | - |
| 125 | 100 | **8.209.007** | - |
| 130 | 100 | **8.209.008** | - |
| 150 | 100 | **8.209.009** | - |
| 185 | 100 | **8.209.010** | - |
| 200 | 100 | **8.209.011** | - |
| 240 | 100 | **8.209.012** | - |
| 250 | 100 | **8.209.013** | - |
| 300 | 100 | **8.209.014** | - |
| 320 | 100 | **8.209.015** | - |
| 350 | 100 | **8.209.016** | - |
| 400 | 100 | **8.209.017** | - |
| 450 | 100 | **8.209.018** | - |
| 500 | 100 | **8.209.019** | - |
| 650 | 100 | **8.209.020** | - |
| 460 x 570 | 100 | - | **8.209.030** |

**Reams of filter paper**
This is a range of paper made especially for the absorption of liquids and splatters and as protector in laboratory furniture, work tables, trays or instruments. Also used in the handling of sterile utensils, conditioning of pharmaceutical products, etc. Pack of 500 sheets per ream

***Rame de papier-filtres*** *pour absorber les liquides et servant aussi de protection sur les plans de travail, sur des plateaux ou pour des instruments, pour la manipulation d'ustensiles stériles, au conditionnement de produits pharmaceutiques etc. Emballage : 500 feuilles par rame*

**Thick paper,** weight 73 g/m² and thickness 0.170 mm

***Papier épais,***
*poids 73 g/m² et épaisseur 0.170 mm*

| **Dimensions** *Dimensions* cm | **Standard pack** *Conditionnement* pcs. | |
|---|---|---|
| 32 x 42 | 4 x 500 | **8.210.000** |
| 42 x 52 | 4 x 500 | **8.210.001** |
| 50 x 50 | 1 x 500 | **8.210.002** |
| 52 x 52 | 1 x 500 | **8.210.003** |
| 58 x 58 | 1 x 500 | **8.210.004** |

**Medium paper,** weight 60 g/m² and thickness 0.130 mm

***Papier moyen,***
*poids 60 g/m² et épaisseur 0.130 mm*

| **Dimensions** *Dimensions* cm | **Standard pack** *Conditionnement* pcs. | |
|---|---|---|
| 32 x 42 | 5 x 500 | **8.210.010** |
| 42 x 52 | 5 x 500 | **8.210.011** |
| 50 x 50 | 1 x 500 | **8.210.012** |
| 52 x 52 | 1 x 500 | **8.210.013** |
| 58 x 58 | 1 x 500 | **8.210.014** |

**Fine paper,** weight 50 g/m² and thickness 0.115 mm

***Papier mince,***
*poids 50 g/m² et épaisseur 0.115 mm*

| **Dimensions** *Dimensions* cm | **Standard pack** *Conditionnement* pcs. | |
|---|---|---|
| 32 x 42 | 5 x 500 | **8.210.020** |
| 42 x 52 | 5 x 500 | **8.210.021** |
| 50 x 50 | 1 x 500 | **8.210.022** |
| 52 x 52 | 1 x 500 | **8.210.023** |
| 58 x 58 | 1 x 500 | **8.210.024** |

**Phase separator filter paper** with a medium velocity of filtration and made with liners of cotton and cellulose soaked in a type of stabilized hydrophobic silicone, for the separation of phases in mixed aqueous-organic samples, filtration of solvents for extraction, separation of emulsions. Equivalent to: Whatman 1 P/S - MN GF2 and S&S 597 hy

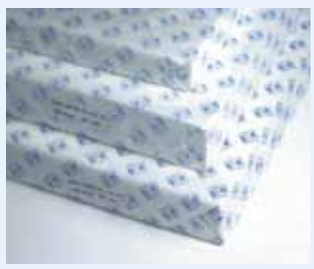
***Papier-filtres séparateur de phase*** *à vitesse moyenne de filtration et fabriqués sur une base de coton et de cellulose dans une silice hydrophobe, pour la séparation des phases dans des échantillons à mélange organo-aqueux, filtration des solvants d'extraction, séparation d'émulsions. Equivalent à: Whatman 1 P/S - MN GF2 et S&S 597 hy*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | |
|---|---|---|---|
| 70 | 100 | **8.210.100** | **8.210.120** |
| 90 | 100 | **8.210.101** | **8.210.121** |
| 110 | 100 | **8.210.102** | **8.210.122** |
| 125 | 100 | **8.210.103** | **8.210.123** |
| 150 | 100 | **8.210.104** | **8.210.124** |
| 185 | 100 | **8.210.105** | **8.210.125** |
| 200 | 100 | **8.210.106** | **8.210.126** |
| 240 | 100 | **8.210.107** | **8.210.127** |
| 270 | 100 | **8.210.108** | **8.210.128** |

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**Filter paper free of P and K, low in N**
A filter paper with medium velocity of filtration and free from phosphates, potassium and with low nitrogen content. Is used most of all in the analysis of soils, determination of phosphates or nitrates, analysis of the components of nitrogen in beers and other experiments. Equivalent to: S&S 79

***Papier-filtres exempt de P et K faible teneur en N*** *filtration à vitesse moyenne exempt de phosphate, potassium et teneur faible d'azote, utilisés pour l'analyse des sols, détermination des phosphates et nitrates, analyses d'éléments d'azote dans les bières et autres applications, Equivalent à: S&S 79*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | | |
|---|---|---|---|
| 90 | 100 | **8.210.140** | **8.210.160** |
| 110 | 100 | **8.210.141** | **8.210.161** |
| 125 | 100 | **8.210.142** | **8.210.162** |
| 150 | 100 | **8.210.143** | **8.210.163** |
| 185 | 100 | **8.210.144** | **8.210.164** |
| 200 | 100 | **8.210.145** | **8.210.165** |
| 240 | 100 | **8.210.146** | **8.210.166** |
| 270 | 100 | **8.210.147** | **8.210.167** |
| 320 | 100 | **8.210.148** | **8.210.168** |

## FILTER PAPERS FOR SPECIAL APPLICATIONS
*Papier- filtres pour applications spéciales*

### Soil analyses, phosphate-free-filters
*Analyses des sols, exempt de phosphate*



**Folded filters** made from acid-washed paper with a high clarification efficiency for determination of micro-nutrients available to vegetation. Basis weight 75 g/m², thickness 0.18 mm, surface smooth. Pack of 100 pcs.

***Papier-filtres plissés*** *pour la détermination des micro-organismes. Poids env. 75 g/m², épaisseur 0.18 mm, surface lisse, en paquet de 100*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 110 | 100 | **8.210.200** |
| 125 | 100 | **8.210.201** |
| 150 | 100 | **8.210.202** |
| 185 | 100 | **8.210.203** |
| 240 | 100 | **8.210.204** |

**Filter papers, phosphate-free,** slow filtration, for soil analyses. Basis weight 75 g/m², thickness 0.17 mm, filtration speed 100 s, surface smooth. Pack of 100 pcs.

***Papier-filtres pour l'analyse des sols,*** *exempt de phosphate, filtration lente. Poids env. 75 g/m², épaisseur 0.17 mm, surface lisse, en paquet de 100*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | | |
|---|---|---|---|
| 55 | 100 | **8.210.210** | **8.210.220** |
| 70 | 100 | **8.210.211** | **8.210.221** |
| 90 | 100 | **8.210.212** | **8.210.222** |
| 110 | 100 | **8.210.213** | **8.210.223** |
| 125 | 100 | **8.210.214** | **8.210.224** |
| 150 | 100 | **8.210.215** | **8.210.225** |
| 185 | 100 | **8.210.216** | **8.210.226** |
| 240 | 100 | **8.210.217** | **8.210.227** |
| 320 | 100 | **8.210.218** | **8.210.228** |

**Filter papers, phosphate-free**, medium speed filtration. Basis weight 85 g/m², thickness 0.20 mm, filtration speed 22 s, surface smooth, in packs of 100 pcs.

***Papier-filtres pour l'analyse des sols,*** *exempt de phosphate, filtration moyenne. Poids env. 85 g/m², épaisseur 0.20 mm, vitesse 22 sec., surface lisse, en paquet de 100*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 55 | 100 | **8.210.230** |
| 70 | 100 | **8.210.231** |
| 90 | 100 | **8.210.232** |
| 110 | 100 | **8.210.233** |
| 125 | 100 | **8.210.234** |
| 150 | 100 | **8.210.235** |
| 185 | 100 | **8.210.236** |
| 240 | 100 | **8.210.237** |
| 320 | 100 | **8.210.238** |

**Filter papers, phosphate-free** fast filtration. Basis weight 85 g/m² , thickness 0.20 mm, filtration speed 9 s, surface smooth, in packs of 100 pcs.

***Papier-filtres pour l'analyse des sols,*** *exempt de phosphate, filtration rapide. Poids env. 85 g/m², épaisseur 0.20 mm, vitesse 9 sec., surface lisse, en paquet de 100*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 55 | 100 | **8.210.240** |
| 70 | 100 | **8.210.241** |
| 90 | 100 | **8.210.242** |
| 110 | 100 | **8.210.243** |
| 125 | 100 | **8.210.244** |
| 150 | 100 | **8.210.245** |
| 185 | 100 | **8.210.246** |
| 240 | 100 | **8.210.247** |
| 320 | 100 | **8.210.248** |

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## Filter papers for breweries
## *Papier-filtres pour brasseries*

**Filter papers,** medium speed, e.g. for malt analyses in breweries. Basis weight 75 g/m², thickness 0.17 mm, filtration speed 25 s, surface embossed, in pack of 100 pcs.

***Papier-filtres pour les analyses du malt*** *dans les brasseries, vitesse moyenne. Poids env. 75 g/m², épaisseur 0.17 mm, vitesse 25 sec., surface en relief, en paquet de 100*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | | |
|---|---|---|---|
| 55 | 100 | **8.210.300** | **8.210.310** |
| 70 | 100 | **8.210.301** | **8.210.311** |
| 90 | 100 | **8.210.302** | **8.210.312** |
| 110 | 100 | **8.210.303** | **8.210.313** |
| 125 | 100 | **8.210.304** | **8.210.314** |
| 150 | 100 | **8.210.305** | **8.210.315** |
| 185 | 100 | **8.210.306** | **8.210.316** |
| 240 | 100 | **8.210.307** | **8.210.317** |
| 320 | 100 | **8.210.308** | **8.210.318** |



**Filter papers,** medium speed, made of unbleached pulp. Basis weight 75 g/m², thickness 0.26 mm, filtration speed 25 s, surface embossed, in pack of 100 pcs.

***Papier-filtres spéciaux pour brasseries,*** *en papier pulpe non-blanchie. Poids env. 75 g/m², épaisseur 0.26 mm, vitesse 25 sec., surface en relief, en paquet de 100*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | | |
|---|---|---|---|
| 90 | 100 | **8.210.320** | **8.210.330** |
| 110 | 100 | **8.210.321** | **8.210.331** |
| 125 | 100 | **8.210.322** | **8.210.332** |
| 150 | 100 | **8.210.323** | **8.210.333** |
| 185 | 100 | **8.210.324** | **8.210.334** |
| 240 | 100 | **8.210.325** | **8.210.335** |
| 320 | 100 | **8.210.326** | **8.210.336** |

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**8.210.2****

## Filter papers for fat analysis

### *Papier- filtres pour l'analyses de corps gras*

Filter papers particularly suited for the analyses of fats. A special treatment with organic solvents guarantees that these filters are practically free of fats and resins. Pack of 100 papers

***Papier-filtres pour analyses des corps gras*** *(graisses et huiles), exempt de graisses et de résines. En paquet de 100*

| **Dimensions** *Dimensions* **mm** | **Standard pack** *Conditionnement* **pcs.** | |
|---|---|---|
| 55 | 100 | **8.210.350** |
| 70 | 100 | **8.210.351** |
| 90 | 100 | **8.210.352** |
| 110 | 100 | **8.210.353** |
| 125 | 100 | **8.210.354** |
| 150 | 100 | **8.210.355** |
| 185 | 100 | **8.210.356** |
| 240 | 100 | **8.210.357** |
| 270 | 100 | **8.210.358** |

## Filter papers for Microscopy

### *Papier- filtres pour la microscopie*

**Blocks,** paper with good absorbent properties for absorbing liquids from microscopy preparations. Supplied in pack of 100 blocks ea. with 50 sheets

***Blocs de papiers absorbants*** *pour liquides de preparations microscopiques. Livrés en paquet de 100 pochettes de 50 feuilles chacun*

| **Dimensions** *Dimensions* **cm** | **Standard pack** *Conditionnement* **pcs.** | **Order No.** *N° de code* |
|---|---|---|
| 3.7 x 10 | 100 | **8.210.370** |

## Glass microfiber filters

### *Filtres en microfibre de verre*

Comparaison table / *Tableau comparatif*

| **Order No.** | **Equivalent to** |
|---|---|
| 8.210.4** | 415 Whatman GF/A, MN GF1, S&S 50 |
| 8.210.42* | 435 Whatman GF/B, MN GF2, S&S 51 |
| 8.210.44* | 455 Whatman GF/C, MN GF3, S&S 52 |
| 8.210.46* | 475 Whatman GF/D, MN GF4 |

**Glass microfiber filters,** excellent chemical and thermal stabillity. **Retention rate 1.6 µm –** used in atmospheric control of immission, presence of ozone in air, determination of solids in water suspension and effluents from industry, critical filtrations of solvents. Equivalent to: Whatman GF/A - MN GF1 - S&S 50

***Filtres en microfibres de verre,*** *à excellente stabilité chimique et thermique.*
***Seuil de rétention 1.6 µm*** *– utilisés dans le contrôle d'immission, présence d'ozone dans l'air, détermination des solides en suspension dans l'eau et rejets industriels, filtrations difficiles de solvants. Equivalent à: Whatman GF/A - MN GF1 S&S 50*

| **Dimensions** *Dimensions* **mm** | **Standard pack** *Conditionnement* **pcs.** | | |
|---|---|---|---|
| 25 | 100 | **8.210.400** | - |
| 37 | 100 | **8.210.401** | - |
| 42.5 | 100 | **8.210.402** | - |
| 47 | 100 | **8.210.403** | - |
| 55 | 100 | **8.210.404** | - |
| 70 | 100 | **8.210.405** | - |
| 90 | 100 | **8.210.406** | - |
| 100 | 100 | **8.210.407** | - |
| 110 | 100 | **8.210.408** | - |
| 125 | 100 | **8.210.409** | - |
| 150 | 100 | **8.210.410** | - |
| 203 x 254 | 100 | - | **8.210.415** |

**Glass microfiber filters,** excellent chemical and thermal stabillity. **Retention rate 1.0 µm –** for prefiltrations of samples before filtration in membranes and in cleaning large volume of samples. Equivalent to: Whatman GF/B - MN GF2 S&S 51

***Filtres en microfibres de verre,*** *à excellente stabilité chimique et thermique.* ***Seuil de rétention 1.0 µm*** *– pour les préfiltrations d'échantillons avant la filtration sur membrane et dans le nettoyage de grand volume d'échantillons Equivalent à: Whatman GF/B - MN GF2 - S&S 51*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | |
|---|---|---|---|
| 25 | 100 | **8.210.420** | - |
| 37 | 100 | **8.210.421** | - |
| 42.5 | 100 | **8.210.422** | - |
| 47 | 100 | **8.210.423** | - |
| 55 | 100 | **8.210.424** | - |
| 70 | 100 | **8.210.425** | - |
| 90 | 100 | **8.210.426** | - |
| 100 | 100 | **8.210.427** | - |
| 110 | 100 | **8.210.428** | - |
| 125 | 100 | **8.210.429** | - |
| 150 | 100 | **8.210.430** | - |
| 203 x 254 | 100 | - | **8.210.435** |

**Glass microfiber filters,** excellent chemical and thermal stabillity. **Retention rate 1.2 µm –** for the determination of solids in water suspension, in water treatment plants and industry and in the analysis of carbohydrates by means of hydrolysis, filtration of solvents, clarification of samples etc. Equivalent to: Whatman GF/C MN GF3 - S&S 52

***Filtres en microfibres de verre,*** *à excellente stabilité chimique et thermique.* ***Seuil de rétention 1.2 µm*** *– pour la détermination des solides en suspension dans l'ea, dans les stations de traitement d'eau et industrie ainsi que dans les analyses des carbohydrates par hydrolyse, filtration des solvants, clarification d'échantillons etc. Equivalent à: Whatman GF/C - MN GF3 S&S 52*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | |
|---|---|---|---|
| 25 | 100 | **8.210.440** | - |
| 37 | 100 | **8.210.441** | - |
| 42.5 | 100 | **8.210.442** | - |
| 47 | 100 | **8.210.443** | - |
| 55 | 100 | **8.210.444** | - |
| 70 | 100 | **8.210.445** | - |
| 90 | 100 | **8.210.446** | - |
| 100 | 100 | **8.210.447** | - |
| 110 | 100 | **8.210.448** | - |
| 125 | 100 | **8.210.449** | - |
| 150 | 100 | **8.210.450** | - |
| 203 x 254 | 100 | - | **8.210.455** |

**Glass microfiber filters,** excellent chemical and thermal stabillity. **Retention rate 2.7 µm –** for prefiltrations of samples before membrane filtration. Equivalent to: Whatman GF/D - MN GF4

***Filtres en microfibres de verre,*** *à excellente stabilité chimique et thermique.* ***Seuil de rétention 2.7 µm*** *– pour les préfiltrations d'échantillons avant la filtration sur membrane. Equivalent à: Whatman GF/D - MN GF4*

| **Dimensions** *Dimensions* mm | **Standard pack** *Conditionnement* pcs. | | |
|---|---|---|---|
| 25 | 100 | **8.210.460** | - |
| 37 | 100 | **8.210.461** | - |
| 42.5 | 100 | **8.210.462** | - |
| 47 | 100 | **8.210.463** | - |
| 55 | 100 | **8.210.464** | - |
| 70 | 100 | **8.210.465** | - |
| 90 | 100 | **8.210.466** | - |
| 100 | 100 | **8.210.467** | - |
| 110 | 100 | **8.210.468** | - |
| 125 | 100 | **8.210.469** | - |
| 150 | 100 | **8.210.470** | - |
| 203 x 254 | 100 | - | **8.210.475** |

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**8.210.2****

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**Glass microfiber filters,** excellent chemical and thermal stabillity. **Retention rate 0.7 µm –** used in oceanographic laboratories for the analysis of micro-organisms in seawaters, in filtrations of sample for HPLC, biochemical experiments, gravimetric analysis of paints and pigments, filtrations of proteins etc. Equivalent to: Whatman GF/F - MN GF

***Membranes filtrantes en microfibres de verre,*** *à excellente stabilité chimique et thermique.* ***Seuil de rétention 0.7 µm*** *– utilisés pour les analyses des micro-organismes dans l'eau de mer, les filtrations d'échantillons pour HPLC, les expériences biochimiques, les analyses gravimétriques des peintures et des pigments, les filtrations de proteines etc. Equivalent à: Whatman GF/F MN GF*

| **Dimensions** *Dimensions* **mm** | **Standard pack** *Conditionnement* **pcs.** | | |
|---|---|---|---|
| 25 | 100 | **8.210.480** | - |
| 37 | 100 | **8.210.481** | - |
| 42.5 | 100 | **8.210.482** | - |
| 47 | 100 | **8.210.483** | - |
| 55 | 100 | **8.210.484** | - |
| 70 | 100 | **8.210.485** | - |
| 90 | 100 | **8.210.486** | - |
| 100 | 100 | **8.210.487** | - |
| 110 | 100 | **8.210.488** | - |
| 125 | 100 | **8.210.489** | - |
| 150 | 100 | **8.210.490** | - |
| 203 x 254 | 100 | - | **8.210.495** |

**Glass microfiber filters,** excellent chemical and thermal stability. **Retention rate 1.5 µm -** for the determination of solids in suspension, dissolved and volatile solids Equivalent to: Whatman 934AH - MN GF6

***Membranes filtrantes en microfibres de verre,*** *à excellente stabilité chimique et thermique.* ***Seuil de rétention 1.5 µm*** *– pour la determination des solides en suspension et dles solides dissous et volatils solvants. Equivalent à: Whatman 934AH MN GF6*



**8.210.2****

| **Dimensions** *Dimensions* **mm** | **Standard pack** *Conditionnement* **pcs.** | | |
|---|---|---|---|
| 25 | 100 | **8.210.500** | - |
| 37 | 100 | **8.210.501** | - |
| 42.5 | 100 | **8.210.502** | - |
| 47 | 100 | **8.210.503** | - |
| 55 | 100 | **8.210.504** | - |
| 70 | 100 | **8.210.505** | - |
| 90 | 100 | **8.210.506** | - |
| 100 | 100 | **8.210.507** | - |
| 110 | 100 | **8.210.508** | - |
| 125 | 100 | **8.210.509** | - |
| 150 | 100 | **8.210.510** | - |
| 203 x 254 | 100 | - | **8.210.515** |

**Quartz microfiber filters,** made exclusively with pure quartz (Si $Or_2$) microfibers, have excellent chemical and thermal stability against acidic gases such as $SO_2$, $HC_1$, $SO_3$, NO, $NO_3$, except HF, up to 900 °C. DOP retention 99.999 % at 0.3 µm. Equivalent to: Whatman QM-A - MN QF-10

***Membranes filtrantes en microfibres de silice (Si*** $Or_2$***)*** *à haute pureté, pour les contrôles d'émission de l'air, haute stabilité chimique et thermique aux gaz* $SO_2$, $HC_1$, $SO_3$, *NO,* $NO_3$, *excepté HF, jusqu'à 900 °C. Seuil de rétention 99.999 % à 0.3 µm. Equivalent à: Whatman QM-A MN QF-10*

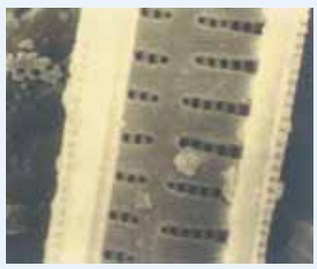
| **Dimensions** *Dimensions* **mm** | **Standard pack** *Conditionnement* **pcs.** | | |
|---|---|---|---|
| 25 | 100 | **8.210.520** | - |
| 37 | 100 | **8.210.521** | - |
| 47 | 100 | **8.210.522** | - |
| 55 | 100 | **8.210.523** | - |
| 70 | 100 | **8.210.524** | - |
| 90 | 100 | **8.210.525** | - |
| 100 | 100 | **8.210.526** | - |
| 110 | 100 | **8.210.527** | - |
| 125 | 100 | **8.210.528** | - |
| 150 | 100 | **8.210.529** | - |
| 203 x 254 | 100 | - | **8.210.535** |

**Diatom paper,** manufactured with a mixture of cellulose fibers and diatomaceous earth (diatomaceous algae), with pores of up to 0.5 µm, for the filtration of clay samples, filtration of protein samples, clarification of beer or malt samples, clarification of samples of solutions with sugar, clarification of urine, filtration of milk whey, filtration of wine samples

***Papier-filtres en diatom,*** *fabriqué d'un mélange de fibres de cellulose et de terre diatomaceuse (diatomaceous algae), avec des pores jusqu'à 0.5 µm, pour filtration d'échantillons argileux, de proteines, du petit lait et d'échantillons de vin, pour la clarification d'échantillons de bière et de malt, de solutions sucrées et d'urine*

**Flat /** *Plat*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 90 | 100 | **8.210.550** |
| 110 | 100 | **8.210.551** |
| 125 | 100 | **8.210.552** |
| 185 | 100 | **8.210.553** |
| 240 | 100 | **8.210.554** |
| 270 | 100 | **8.210.555** |
| 320 | 100 | **8.210.556** |
| 400 | 100 | **8.210.557** |
| 450 | 100 | **8.210.558** |
| 500 | 100 | **8.210.559** |



**8.210.5****

## Syringe Filters with polypropylene housing

*Membranes filtrantes pour seringue avec boitier en polypropylène*

**Nylon Syringe Filters (PA),** hydrophobic membrane. Resistant to a wide range of organic and aqueous solvents. Useful for HPLC analysis. High protein retention. Standard pack of 100 pieces

***Membranes filtrantes en nylon pour seringue (PA),*** *membranes hydrophobiques et résistantes aux filtrations de solvants organiques et aqueux. Adaptées pour les analyses HPLC. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.45 | 25 | ● | | **8.214.100** |
| 0.20 | 25 | ● | | **8.214.101** |
| 0.45 | 25 | ● | low extractables | **8.214.102** |
| 0.20 | 25 | ● | low extractables | **8.214.103** |
| 0.45 | 13 | ● | | **8.214.104** |
| 0.20 | 13 | ● | | **8.214.105** |
| 0.45 | 13 | ● | low extractables | **8.214.106** |
| 0.20 | 13 | ● | low extractables | **8.214.107** |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | | |
| 0.45 | 25 | ● | | **8.214.111** |
| 0.20 | 25 | ● | | **8.214.112** |



**8.214.10***

**Polypropylene (PP) Syringe Filters,** hydrophilic membrane. Resistant to a wide range of organic and aqueous solvents. Ideal for HPLC filtration, low level of extratables. Standard pack of 100 pieces

***Membranes filtrantes en polypropylène (PP) pour seringue,*** *membranes hydrophiles et résistantes aux solvants organiques et aqueux. Adaptées pour les analyses HPLC. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | ○ | **8.214.120** |
| 0.20 | 25 | ◯ | **8.214.121** |
| 0.45 | 13 | ○ | **8.214.122** |
| 0.20 | 13 | ◯ | **8.214.123** |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | ○ | **8.214.125** |
| 0.20 | 25 | ◯ | **8.214.126** |



**8.214.12***

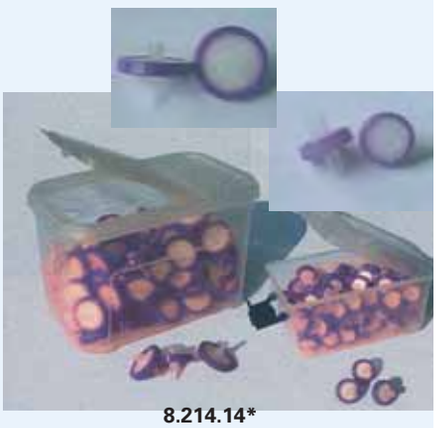


8.214.13*

**PVDF Syringe Filter,** hydrophilic nature. Suitable for filtration and sterilization of solutions with low proteins binding. Filtration of aqueous and organic samples. Ideal for HPLC. Standard pack of 100 pieces

***Membranes filtrantes en PVDF pour seringue,*** *hydrophobiques et résistantes aux filtrations de solvants organiques et aqueux. Adaptées pour les analyses HPLC. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | 8.214.130 |
| 0.20 | 25 | | 8.214.131 |
| 0.45 | 13 | | 8.214.132 |
| 0.20 | 13 | | 8.214.133 |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | | 8.214.135 |
| 0.20 | 25 | | 8.214.136 |



8.214.14*

**Polyethersulfone (PES) Syringe Filters,** hydrophilic membrane. Resistant to strong bases, alcohols and resistive proteins. PES is suited for tissue culture work. Do not used it with acids, ketones, esther, halogenated or aromatic hydrocarbons. Standard pack of 100 pieces

***Membranes filtrantes en polyéthersulfone(PES) pour seringue,*** *membranes hydrophiles résistantes aux fortes bases, alcools et proteines. PES est utilisé pour les travaux de cultures cellulaires. A ne pas utiliser avec les acides, l'acétone, l'éther ou les hydrocarbures aromatisés. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | 8.214.140 |
| 0.45 | 13 | | 8.214.142 |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | | 8.214.145 |



8.214.15*

**Teflon (PTFE) Syringe Filters,** hydrophobic nature. High chemical resistance. Ideal filter for solvents, air or gases and for degassing HPLC solvents. Clarification of non aqueous solvents. Not recommended for aqueous samples. Pack of 100 pieces

***Membranes filtrantes en Téflon pour seringue,*** *hydrophobiques et à haute résistance chimique, idéales pour la filtration des solvants, air ou gaz et pour le dégazage en HPLC. Non recommandées pour les produits aqueux. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | 8.214.150 |
| 0.20 | 25 | | 8.214.151 |
| 0.45 | 13 | | 8.214.152 |
| 0.20 | 13 | | 8.214.153 |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | | 8.214.155 |
| 0.20 | 25 | | 8.214.156 |



8.214.16*

**Regenerated cellulose (RC) Syringe Filters,** hydrophilic membrane. Resistant to solvents and low proteins This membrane removes particles from HPLC samples before injection and it is compatible with all HPLC solvents as well with aqueous samples in a pH range from 3 to 12. This membrane can be used for biological samples filtration and for proteins recuperation. To improve the filtration it must be used with a glass prefilter membrane. Standard pack of 100 pieces

***Membranes filtrantes en cellulose régénérée (RC) pour seringue,*** *membranes hydrophiles résistantes aux solvents et proteines faibles. Elles permettent de retenir les particules dans les échantillons HPLC avant l'injection et sont compatibles avec tous les solvents HPLC ainsi qu'avec les échantillons aqueux dans un pH de 3 à 12. Adaptées pour la filtration d'échantillons biologiques ainsi que pour la récupération de protéines. Pour améliorer la filtration, il est recommandé d'utiliser un préfiltre en fibres de verre. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | 8.214.160 |
| 0.20 | 25 | | 8.214.161 |
| 0.45 | 13 | | 8.214.162 |
| 0.20 | 13 | | 8.214.163 |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | | 8.214.165 |
| 0.20 | 25 | | 8.214.166 |

**Cellulose Acetate (CA) Syringe Filters,** hydrophilic membrane. Lower chemical resistance than the regenerated cellulose membrane. Ideal for acqueous based samples and for tissue culture media filtration as well for biological samples. It is not to use with organic solvents. Standard pack of 100 pieces

***Membranes filtrantes en acétate de cellulose (CA) pour seringue,*** *membranes hydrophiles à faible résistance chimique par rapport à la membrane en cellulose régénérée. Idéales pour les échantillons aqueux et pour la filtration des milieux de culture ainsi que pour les échantillons biologiques. A ne pas utiliser avec des solvents organiques. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | **8.214.170** |
| 0.20 | 25 | | **8.214.171** |
| 0.45 | 13 | | **8.214.172** |
| 0.20 | 13 | | **8.214.173** |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | | **8.214.175** |
| 0.20 | 25 | | **8.214.176** |



**8.214.17***

**Cellulose mixed esters syringe filters (ME),** hydrophilic nature. Used for clarification and sterilization of most aqueous samples. Low protein retention. Ideal for filtration and sterilization of biological samples. Standard pack of 100 pieces

***Membranes filtrantes en Esther de Cellulose pour seringue (ME),*** *hydrophiliques, utilisées pour la clarification et la stérilisation d'échantillons aqueux. Idéales pour la filtration et la stérilisation d'échantillons biologiques. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | **8.214.180** |
| 0.20 | 25 | | **8.214.181** |
| 0.45 | 13 | | **8.214.182** |
| 0.20 | 13 | | **8.214.183** |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | | **8.214.185** |
| 0.20 | 25 | | **8.214.186** |



**8.214.18***

**Nitrocellulose (NC) syringe Filters,** hydrophilic membrane. Recommended for clarification and filtration of acqueous samples. Standard pack of 100 pieces

***Membranes filtrantes en nitrocellulose (NC) pour seringue,*** *membranes hydrophiles recommandées pour la clarification et la filtration d'échantillons aqueux. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | **8.214.190** |
| 0.45 | 13 | | **8.214.192** |
| **With glass prefilter and PP housing**<br>*Avec préfiltre en verre et boitier en PP* | | | |
| 0.45 | 25 | | **8.214.195** |



**8.214.19***

**Target Syringe Filters with polyethersulfone (PES) membrane,** these filters provide high flow rates and are certified for the Ion Cromatography. Secure Luer Lok inlet. Housing made of polypropylene (PP). Standard pack of 100 pieces

***Membranes filtrantes type target en polyethersulfone (PES) pour seringue,*** *ces filtres offrent un haut débit et sont certifiés pour la chromatographie ionique, avec raccord Luer Lock. Boitier en PP. Conditionnement de 100 pièces*

| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.45 | 25 | | **8.214.200** |
| 0.20 | 25 | | **8.214.201** |
| 0.45 | 13 | | **8.214.202** |
| 0.20 | 13 | | **8.214.203** |



**8.214.20***

**Target Syringe Filters with Glass Microfiber (GMF) membrane,** these filters are used as pre-filters to remove large particles. Standard pack of 100 pieces

***Membranes filtrantes type target en fibres de verre (GMF) pour seringue,*** *ces filtres sont utilisés pour la préfiltration. Conditionnement de 100 pièces*

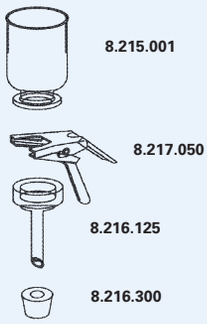
| Porosity<br>*Porosité*<br>µm | Membrane<br>Ø<br>mm | Color code<br>*Code couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.70 | 25 | | **8.214.210** |
| 1.20 | 25 | | **8.214.211** |
| 3.10 | 25 | | **8.214.212** |



**8.214.21***



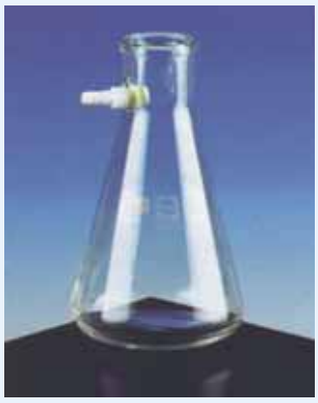
**8.215.001 K**




**Vacuum filtration system** consisting of 100 ml, graduated borosilicate glass funnel for membrane size 47/50mm and for prefilter size 35 mm, made of borosilicate glass autoclavable, with glass frit and PTFE flat seal into the lower part, anodized aluminium clamp and perforated rubber stopper for use on vacuum filtration flask

***Système de filtration sous vide*** *composé de un entonnoir en verre borosilicaté gradué de 100 ml pour membranes filtrantes de 47/50mm et pour préfiltres de 35 mm, avec fritté en verre, joint en téflon monté dans la partie inférieure en verre, pince en aluminium anodisé et bouchon perforé en caoutchouc pour montage sur une fiole à vide*

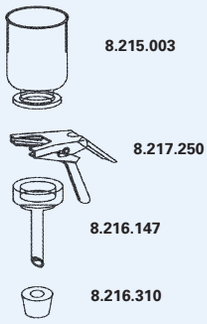
| | Order No.<br>*N° de code* |
|---|---|
| **Complete /** *Complet* | **8.215.001 K** |
| **Accessories and spare parts /** *Accessoires et pièces de rechange* | |
| Funnel, 60 ml, graduated made of borosilicate glass<br>*Entonnoir gradué de 60 ml, en verre borosilicaté* | **8.215.001** |
| Lower part, filter holder with glass frit made of borosilicate glass and PTFE-flat seal, for rubber stopper<br>*Partie inférieure , support de filtre en verre fritté borosilicaté avec anneau de centrage en PTFE, pour montage sur bouchon perforé* | **8.216.125** |
| Rubber stopper, 31/38 mm with single bore dia. 9,5 mm, for use in 250 ml filtering flask<br>*Bouchon en caoutchouc, 31/38 mm perforé à un trou de 9,5 mm, pour utilisation dans fiole à vide de 250 ml* | **8.216.300** |
| Rapid closure clamp, made of anodized aluminium<br>*Pince à fermeture rapide, en aluminium anodisé* | **8.217.050** |
| Suction flask made of clear borosilicate glass, 250 ml, with plastic hose connector for tubing 5-8 mm i.D<br>*Fiole de filtration sous vide en verre clair borosilicaté, 250 ml avec olive en plastique pour tuyau de 5-8 mm dia. int.* | **5.070.125** |



**5.070.125**



**8.215.003 K**




**Vacuum filtration system** consisting of 300 ml, graduated borosilicate glass funnel for membrane size 47/50mm and for prefilter size 35 mm, made of borosilicate glass autoclavable, with glass frit and PTFE flat seal into the lower part, anodized aluminium clamp and perforated rubber stopper for use on vacuum filtration flask

***Système de filtration sous vide*** *composé de un entonnoir en verre borosilicaté gradué de 300 ml pour membranes filtrantes de 47/50mm et pour préfiltres de 35 mm, avec fritté en verre, joint en téflon monté dans la partie inférieure en verre, pince en aluminium anodisé et bouchon perforé en caoutchouc pour montage sur une fiole à vide*

| | Order No.<br>*N° de code* |
|---|---|
| **Complete /** *Complet* | **8.215.003 K** |
| **Accessories and spare parts /** *Accessoires et pièces de rechange* | |
| Funnel, 250 ml, graduated made of borosilicate glass<br>*Entonnoir gradué de 250 ml, en verre borosilicaté* | **8.215.003** |
| Lower part, filter holder with glass frit made of borosilicate glass and PTFE-flat seal, for rubber stopper<br>*Partie inférieure , support de filtre en verre fritté borosilicaté avec anneau de centrage en PTFE, pour montage sur bouchon perforé* | **8.216.147** |
| Rubber stopper, 42/49 mm with single bore dia. 13 mm, for use in 1000 ml filtering flask<br>*Bouchon en caoutchouc, 42/49 mm perforé à un trou de 13 mm, pour utilisation dans fiole à vide de 1000 ml* | **8.216.310** |
| Rapid closure clamp, made of anodized aluminium<br>*Pince à fermeture rapide, en aluminium anodisé* | **8.217.250** |
| Suction flask made of clear borosilicate glass, 1000 ml, with plastic hose connector for tubing 5-8 mm i.D<br>*Fiole de filtration sous vide en verre clair borosilicaté, 1000 ml avec olive en plastique pour tuyau de 5-8 mm dia. int.* | **5.070.210** |

**Vacuum filtration apparatus,** made of borosilicate glass, autoclavable at 121°C/1.1 bar /20 min. or in drying oven at 180°C, with glass frit, PTFE flat seal, anodized aluminium clamp and rubber lid.

Supplied with 250 ml graduated glass funnel for membrane filter size 47/50 mm and for prefilter size 40 mm, suction flask 1000 ml with ground joint NS 45/50 and lower part with ground joint NS 45/50 including plastic connector with screw-cap for tubing 5-8 mm i.D.

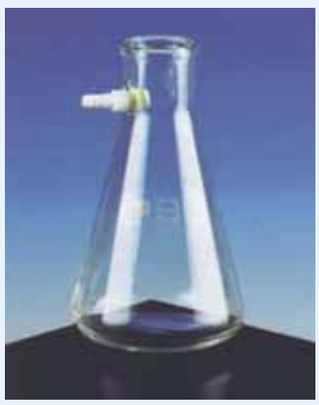
***Appareil de filtration sous vide,*** *en verre borosilicaté, autoclavable à 121°C/1.1 bar/20 min. ou sous étuve à 180°C, avec fritté en verre, anneau de centrage en téflon, pince en aluminium anodisé et couvercle en caoutchouc.*

*Livré avec entonnoir gradué en verre de 250 ml pour membrane filtrante de 47/50 mm et pour préfiltre de 40 mm, fiole Erlenmeyer de 1000 ml à rodage normalisé 45/50 et raccord à rodage normalisé 45/50 avec olive à capuchon à vis en plastique pour tuyau à vide de 5-8 mm dia. int.*

| | Order No.<br>*N° de code* |
|---|---|
| **Complete /** *Complet* | **8.215.004 K** |
| Accessories and spare parts / Accessoires et pièces de rechange | |
| Funnel, 250 ml, graduated made of borosilicate glass<br>*Entonnoir gradué de 250 ml, en verre borosilicaté* | **8.215.003** |
| Lower part, filter holder with glass frit made of borosilicate glass and PTFE-flat seal<br>*Partie inférieure, support de filtre en verre fritté borosilicaté avec anneau de centrage en PTFE* | **8.216.147** |
| Adapter with flange and ground joint 45/50, for collecting flask with plastic vacuum connection<br>*Pièce d'adaptation intermédiaire, à rodage normalisé 45/50 en verre borosilicaté avec olive en plastique à capuchon à vis pour tuyau* | **8.216.200** |
| Rubber lid, for the funnel<br>*Couvercle en caoutchouc, pour l'entonnoir* | **8.216.250** |
| Rapid closure clamp, made of anodized aluminium<br>*Pince à fermeture rapide, en aluminium anodisé* | **8.217.250** |
| Collecting flask, Erlenmeyer shape, with ground joint 45/50 made of clear borosilicate glass, 1000 ml,<br>*Fiole Erlenmeyer en verre clair borosilicaté à rodage normalisé 45/50, 1000 ml* | **8.215.00545** |




**8.215.004 K**



**5.070.125**

**Vacuum filtration system,** 15 ml graduated glass funnel for membrane filter size 24/25 mm and for prefilter size 20 mm. made of borosilicate glass, autoclavable at 121°C/1.1 bar /20 min. or in drying oven at 180°C, with glass frit, PTFE flat seal, glass lower part and anodized aluminium clamp.

Supplied complete with rubber stopper for use on vacuum filtration flask

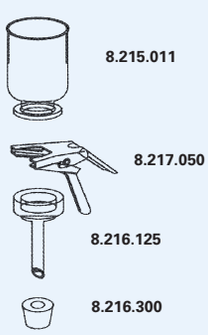
***Système de filtration sous vide,*** *entonnoir gradué en verre de 15 ml pour membrane filtrante de 24/25 mm et pour préfiltre de 20 mm en verre borosilicaté, autoclavable à 121°C/1.1 bar/20 min. ou sous étuve à 180°C, avec fritté en verre, joint plat en téflon, partie inférieure en verre et pince en aluminium anodisé.*

*Livré avec bouchon en caoutchouc pour montage sur fiole de filtration sous vide*

| | Order No.<br>*N° de code* |
|---|---|
| **Complete /** *Complet* | **8.215.011 K** |
| **Accessories and spare parts /** *Accessoires et pièces de rechange* | |
| Funnel, 15 ml, graduated made of borosilicate glass<br>*Entonnoir gradué de 15 ml, en verre borosilicaté* | **8.215.011** |
| Lower part, filter holder with glass frit made of borosilicate glass and PTFE-flat seal, for rubber stopper<br>*Partie inférieure , support de filtre en verre fritté borosilicaté avec anneau de centrage en PTFE, pour montage sur bouchon perforé* | **8.216.125** |
| Rubber stopper, 31/38 mm with single bore dia. 9,5 mm, for use in 250 ml filtering flask<br>*Bouchon en caoutchouc, 31/38 mm perforé à un trou de 9,5 mm, pour utilisation dans fiole à vide de 250 ml* | **8.216.300** |
| Rapid closure clamp, made of anodized aluminium<br>*Pince à fermeture rapide, en aluminium anodisé* | **8.217.050** |
| Suction flask made of clear borosilicate glass, 250 ml, with plastic hose connector for tubing 5-8 mm i.D<br>*Fiole de filtration sous vide en verre clair borosilicaté, 250 ml avec olive en plastique pour tuyau de 5-8 mm dia. int.* | **5.070.125** |



**8.215.011 K**





8.217.3**

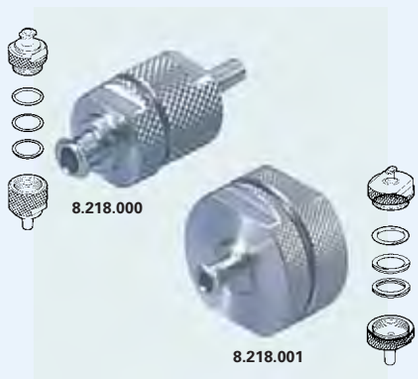
**Vacuum filtration equipment acc. to Swiegot,** made of borosilicate glass, with glass frit, complete with perforated PP screw thread cap GL14, collecting flask 1000 ml, glass lower part with plastic hose connector, rapid closure clamp and seal elements PTFE

***Appareil de filtration sous vide selon Swiegot,*** *en verre borosilicaté avec fritte, complet avec bouchon à visser en PP, flacon de 1000 ml à raccord à vis GL14, partie inférieure avec olive en PP, pince à fermeture rapide et joints d'étanchéité en PTFE*

| Funnel capacity<br>*Capacité*<br>ml | Filter Ø<br>*Filtre Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 60 | 25 | **8.217.301 K** |
| 300 | 47 | **8.217.302 K** |
| 1000 | 90 | **8.217.303 K** |
| **Parts /** *Pièces* | | |
| Funnel, 60 ml capacity<br>*Entonnoir de 60 ml* | | **8.217.401** |
| Funnel, 300 ml capacity<br>*Entonnoir de 300 ml* | | **8.217.402** |
| Funnel, 1000 ml capacity<br>*Entonnoir de 1000 ml* | | **8.217.403** |
| Lower part for Order No. 8.217.301<br>*Partie inférieure pour No. 8.217.301* | | **8.217.501** |
| Lower part for Order No. 8.217.302<br>*Partie inférieure pour No. 8.217.302* | | **8.217.501** |
| Lower part for Order No. 8.217.303<br>*Partie inférieure pour No. 8.217.303* | | **8.217.501** |
| Flask, 1000 ml capacity<br>*Fiole de 1000 ml* | | **8.217.600** |
| PTFE seal for Order no. 8.217.301<br>*Joint en PTFE pour No. 8.217.301* | | **8.217.701** |
| PTFE seal for Order no. 8.217.302<br>*Joint en PTFE pour No. 8.217.302* | | **8.217.702** |
| PTFE seal for Order no. 8.217.303<br>*Joint en PTFE pour No. 8.217.303* | | **8.217.703** |
| Screw cap, with hole for Order no. 8.217.301<br>*Bouchon à visser, perforé pour No. 8.217.301* | | **8.217.801** |
| Screw cap, with hole for Order no. 8.217.302<br>*Bouchon à visser, perforé pour No. 8.217.302* | | **8.217.802** |
| Screw cap, with hole for Order no. 8.217.303<br>*Bouchon à visser, perforé pour No. 8.217.303* | | **8.217.803** |
| Rapid closure clamp, made of anodized aluminium for Funnels with 60 or 300 ml capacity<br>*Pince à fermeture rapide, en aluminium anodisé pour Entonnoires avec 60 ou 300 ml capacité* | | **8.217.050** |
| Rapid closure clamp, made of anodized aluminium for Funnel with 1000 ml capacity<br>*Pince à fermeture rapide, en aluminium anodisé pour Entonnoir avec 1000 ml capacité* | | **8.217.250** |

## Pressure syringe holders

## *Porte-filtres à pression pour seringe*




8.218.0**

**Pressure syringe holders** made of stainless steel (304) autoclavable, with Luer fittings. Suitable for filtering or cleaning of small volumes of liquid. Available in 2 filter sizes: 13 mm or 25 mm

***Porte-filtres à pression pour seringue*** *en acier inoxydable 304 autoclavable, à raccords Luer, adapté pour la filtration et le rincage de petits volumes liquides. Disponibles pour membranes de 13 mm ou de 25 mm*

| Description | Order No.<br>*N° de code* |
|---|---|
| Stainless steel pressure filter holder for 13 mm filter size. Dimensions: Diameter 16 x height 39 mm<br>*Porte-filtre à pression pour seringue en acier inoxydable 304, pour filtre de 13 mm. Dimensions: Diamètre 16 x hauteur 39 mm* | **8.218.000** |
| Stainless steel pressure filter holder for 25 mm filter size. Dimensions: Diameter 32 x height 36 mm<br>*Porte-filtre à pression pour seringue en acier inoxydable 304, pour filtre de 25 mm. Dimensions: Diamètre 32 x hauteur 36 mm* | **8.218.001** |

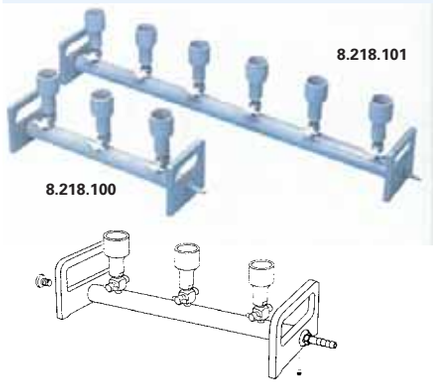
## Vacuum filtration Manifolds

*Rampes de filtration sous vide*

**PVC vacuum filtration manifolds** resistant to acids available with 3 or 6 stations with standard cup for No. 8 rubber stopper including 2-way valve with PTFE stopcocks in PVC body. Not autoclavable. Outlet 1/4" male NPT for 3/8" i.D vacuum tubing

***Rampes de filtration sous vide*** *en PVC résistant aux acides, à 3 ou 6 stations avec raccord standard pour bouchon en caoutchouc No. 8 y compris vanne à 2-voies avec robinets en téflon intégrés dans le corps en PVC. Non autoclavable. Raccord 1/4" mâle NPT pour tuyau à vide de dia. int. 3/8"*

| Description | Order No. *N° de code* |
|---|---|
| 3-Station filtration unit, 45.1 x 12 x 17.8 mm, weight 1.5 kg<br>*Rampe de filtration à 3 postes, 45.1 x 12 x 17.8 mm, poids 1.5 kg* | **8.218.100** |
| 6-Station filtration unit, 87.6 x 12 x 17.8 mm, weight 2.5 kg<br>*Rampe de filtration à 6 postes, 87.6 x 12 x 17.8 mm, poids 2.5 kg* | **8.218.101** |
| **Spare parts /** *Pièces de rechange* | |
| Handle<br>*Poignée* | **8.218.110** |
| Handle set screw<br>*Poignée avec vis* | **8.218.111** |
| Pipe plug<br>*Bouchon de la conduite* | **8.218.112** |
| Hose barb<br>*Raccord à olive* | **8.218.113** |
| Branch (standard cup)<br>*Support de filtre* | **8.218.114** |
| Main manifold 3 station<br>*Manifold à 3 places* | **8.218.115** |
| Main manifold 6 station<br>*Manifold à 6 places* | **8.218.116** |
| Stopcock assembly, 2-way<br>*Robinet à 2 voies* | **8.218.117** |

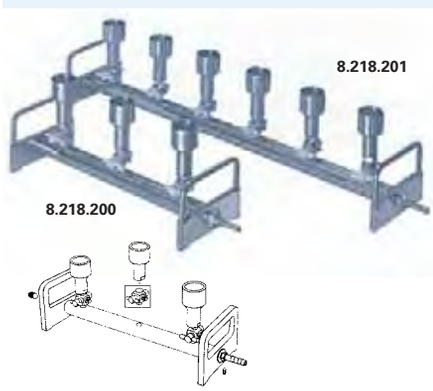



**8.218.1****

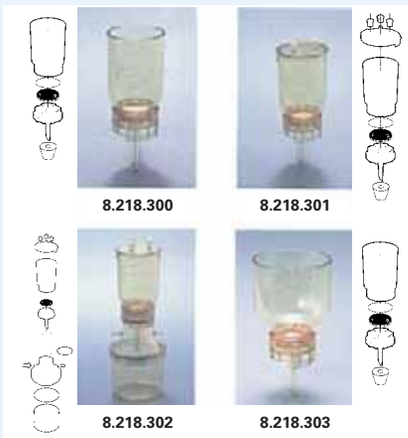
**Stainless steel (304) vacuum filtration manifolds,** resistant to acids available with 3 or 6 stations with standard cup for No. 8 rubber stopper including 2-way valve with PTFE stopcocks in body. Autoclavable. Outlet 1/4" male NPT for 3/8" i.D vacuum tubing

***Rampes de filtration sous vide*** *en acier inoxydable (304), à 3 ou 6 stations avec raccord standard pour bouchon en caoutchouc No. 8 y compris vanne à 2-voies avec robinets en téflon intégrés dans le corps. Autoclavable. Raccord 1/4" mâle NPT pour tuyau à vide de dia. int. 3/8"*

| Description | Order No. *N° de code* |
|---|---|
| 3-Station filtration unit, 45.1 x 12 x 17.8 mm, weight 4.5 kg<br>*Rampe de filtration à 3 postes, 45.1 x 12 x 17.8 mm, poids 4.5 kg* | **8.218.200** |
| 6-Station filtration unit, 87.6 x 12 x 17.8 mm, weight 6.5 kg<br>*Rampe de filtration à 6 postes, 87.6 x 12 x 17.8 mm, poids 6.5 kg* | **8.218.201** |
| **Spare parts /** *Pièces de rechange* | |
| Handle<br>*Poignée* | **8.218.210** |
| Handle set screw<br>*Poignée avec vis* | **8.218.211** |
| Pipe plug<br>*Bouchon de la conduite* | **8.218.212** |
| Hose barb<br>*Raccord à olive* | **8.218.213** |
| Branch (standard cup)<br>*Support de filtre* | **8.218.214** |
| Main manifold 3 station<br>*Manifold à 3 places* | **8.218.215** |
| Main manifold 6 station<br>*Manifold à 6 places* | **8.218.216** |
| Stopcock assembly, 2-way<br>*Robinet à 2 voies* | **8.218.217** |




**8.218.2****




**8.218.3****

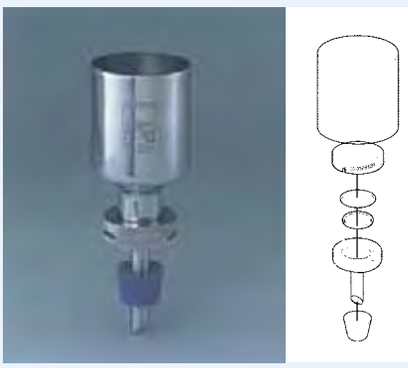
**Polysulfone filter holders,** available with 300 ml or 500 ml graduated funnel

***Systèmes de filtration en polysulfone,*** *disponibles avec entonnoir gradué de 300 ml ou de 500 ml*

| Description | Order No. / *N° de code* |
|---|---|
| 300ml Polysulfone filter holder<br>*Porte-filtre en polysulfone, 300 ml* | **8.218.300** |
| 300ml Polysulfone Aseptic Filter Unit consisting of funnel, base and cover<br>*Système à filtre aseptique en polysulfone, 300 ml, composé d'un entonnoir, d'une embase et d'un couvercle* | **8.218.301** |
| 300 ml Polysulfone Aseptic Filter System consisting of funnel, base, cover and receiver<br>*Système à filtre aseptique en polysulfone, 300 ml, composé d'un entonnoir, d'une embase, d'un couvercle et d'un récepteur* | **8.218.302** |
| 500 ml Polysulfone wide-mouth Filter System consisting of funnel and base<br>*Système de filtration en polysulfone, 500 ml, composé d'un entonnoir et d'une embase* | **8.218.303** |

**Spare parts /** *Pièces de rechange*

| **For Order No. /** *Pour N° de code* | **8.218.300** | **8.218.301** | **8.218.302** | **8.218.303** |
|---|---|---|---|---|
| Gum rubber cap / *Capuchon en caoutchouc* | - | **8.218.310** | **8.218.310** | - |
| Funnel cover / *Couvercle d'entonnoir* | - | **8.218.311** | **8.218.311** | - |
| Funnel / *Entonnoir* | **8.218.312** | **8.218.312** | **8.218.312** | **8.218.312** |
| Funnel O-ring / *Joint d'entonnoir* | **8.218.313** | **8.218.313** | **8.218.313** | **8.218.313** |
| Filter support / *Support de filtre* | **8.218.314** | **8.218.314** | **8.218.314** | **8.218.314** |
| Base / *Base* | **8.218.315** | **8.218.315** | **8.218.315** | **8.218.315** |
| Stopper No. 8B / *Bouchon No. 8B* | **8.218.316** | **8.218.316** | **8.218.316** | **8.218.316** |
| Receiver cover / *Couvercle de récepteur* | - | - | **8.218.317** | - |



**8.218.4****

**Stainless steel (316/304) filter holder** autoclavable, capacity 500 ml, for filter size 47 mm and prefilter 35 mm, for use on vacuum manifold or on 1000 ml vacuum filtration flask. Supplied with rubber stopper

***Entonnoir de filtration en acier inoxydable*** *autoclavable (316/304) de capacité 500 ml, pour filtre de 47mm et préfiltre de 35mm, à utiliser sur les rampes de filtration sous vide ou sur fioles de filtration de 1000 ml. Livré avec bouchon en caoutchouc*

| | Order No. / *N° de code* |
|---|---|
| | **8.218.400** |

**Spare parts /** *Pièces de rechange*

| | |
|---|---|
| Funnel / *Entonnoir* | **8.218.410** |
| Base / *Base* | **8.218.411** |
| Support screw / *Vis de maintin* | **8.218.412** |
| PTFE gasket / *Joint en Téflon* | **8.218.413** |
| Stopper No. 8 / *Bouchon No. 8* | **8.218.414** |

## Disposable vacuum filtration

*Filtration sous vide à usage unique*



**8.218.50***

**Disposable vacuum filtration units** for filtering and degassing HPLC mobile phase, suitable for filtration of both aqueous liquids and solvents by use of hydrophilic PTFE membranes.
Fits receiver flasks with neck diameter from 24 mm to 50 mm and minimum height of 30 mm. Two pore sizes are available in 0.2 µm and 0.5 µm

***Systèmes de filtration sous vide à usage unique adaptés*** *pour la filtration et le dégazage de phase mobile en HPLC et pour la filtration des liquides et solvents par membrane en téflon hydrophobe. Pour fioles à col de diamètre 24 à 50 mm et de hauteur minimum 30 mm. Disponibles en 0.2 µm et 0.5 µm*

| Description | Order No. / *N° de code* |
|---|---|
| Hydrophilic PTFE membrane filter in Polyethylene housing<br>Pore size: 0.2µm Funnel capacity 350 ml<br>*Avec membrane filtrante en téflon hydrophile de porosité 0.2µm dans boitier en polyéthylène et entonnoir de 350 ml* | **8.218.500** |
| Hydrophilic PTFE membrane filter in Polyethylene housing<br>Pore size: 0.5µm Funnel capacity 350 ml<br>*Avec membrane filtrante en téflon hydrophile de porosité 0.5µm dans boitier en polyéthylène et entonnoir de 350 ml* | **8.218.501** |

# Membrane Filters

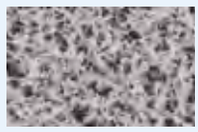
*Membranes filtrantes*



## Membrane Comparaison

***Tableau comparatif des membranes filtrantes***

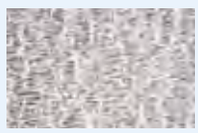
| Membrane Polymer *Membranes en polymère* | Sample Applications *Applications* | General Compatibility *Compatibilité générale* | Hydrophilic *Hydrophiles* | Hydrophobic *Hydrophobes* | Pore size range available [µm] *Taille nominale des pores* | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.1 | 0.2 | 0.45 | 0.8 | 1.0 | 3.0 | 5.0 | 8.0 | 10 |
| Mixed Cellulose Ester (MCE) *En esther de cellulose mixte (MCE)* | General purpose Microbiology Particle analysis *Utilisation générale et analyses microbiologiques de particules* | Aqueous Solutions *Solutions aqueuses* | x | | | | | | | | | | |
| Cellulose Acetate (CA) *En acétate de cellulose (CA)* | General filtration Cytology Binding studies *Filtration générale et analyses cytologiques* | Aqueous Solutions *Solutions aqueuses* | x | | | | | | | | | | |
| Coated Cellulose Acetate *En acétate de cellulose renforcée* | Clarify solutions Prefilter *Solutions clarifiées Préfiltre* | Aqueous Solutions *Solutions aqueuses* | x | | | | | | | | | | |
| Hydrophilic PTFE *En Téflon hydrophile* | HPLC solutions Clarify or sterilize aqueous/organic mixtures *Pour solutions HPLC et clarifies ou stériles à mélange aqueux/organique* | Aqueous and organic solutions *Solutions aqueuses et organiques* | x | | | | | | | | | | |
| Hydrophobic PTFE *En Téflon hydrophobe* | HPLC solutions Clarify or sterilize strong acids or solvents *Pour solutions HPLC , acides et bases* | Non-aqueous Solvents *Solvants non-aqueux* | | x | | | | | | | | | |
| Polycarbonate *En Polycarbonate* | Microscopy Beverage Testing *Microscopie et contrôle des boissons* | Aqueous Solutions *Solutions aqueuses* | x | | | | | | | | | | |

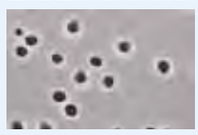












**Mixed Cellulose Ester Membranes (MCE),** white, non-sterile, hydrophilic

***Membranes filtrantes en esther de cellulose mixte,*** *blanches, hydrophiles, non-stériles*

| Pore size *Porosité* µm | Ø *Surface* mm | Surface *Surface* | Packing *Emballage* pcs. | Order No. *N° de code* | Equivalent Whatman Type | Equivalent Sartorius Type | Equivalent Millipore Type |
|---|---|---|---|---|---|---|---|
| | | | | | **ME 24** | **113** | **VCWP** |
| 0.1 | 13 | Plain/*uni* | 100 | **8.220.000** | - | - | VCWP 013 00 |
| 0.1 | 25 | Plain/*uni* | 100 | **8.220.001** | - | 11358-025N | VCWP 025 00 |
| 0.1 | 47 | Plain/*uni* | 100 | **8.220.002** | - | 11358-047N | VCWP 047 00 |
| 0.1 | 50 | Plain/*uni* | 100 | **8.220.003** | - | - | - |
| 0.1 | 90 | Plain/*uni* | 25 | **8.220.004** | - | - | VCWP 090 00 |
| 0.1 | 142 | Plain/*uni* | 25 | **8.220.005** | - | 11358-142G | VCWP 142 50 |
| 0.1 | 293 | Plain/*uni* | 25 | **8.220.006** | - | - | VCWP 293 25 |
| | | | | | **ME 24** | **113** | **GSWP** |
| 0.2 | 13 | Plain/*uni* | 100 | **8.220.010** | - | 11307-103N | GSWP 013 00 |
| 0.2 | 25 | Plain/*uni* | 100 | **8.220.011** | 10 401 706 | 11307-025N | GSWP 025 00 |
| 0.2 | 25 | Grid/*quadrillé* | 100 | **8.220.012** | - | - | - |
| 0.2 | 47 | Plain/*uni* | 100 | **8.220.013** | 10 401 712 | 11307-047N | GSWP 047 00 |
| 0.2 | 47 | Grid/*quadrillé* | 100 | **8.220.014** | - | - | - |
| 0.2 | 47 | Plain/*uni* | 100 | **8.220.015** | - | - | - |
| 0.2 | 47 | Grid/*quadrillé* | 100 | **8.220.016** | - | - | - |
| 0.2 | 50 | Plain/*uni* | 100 | **8.220.017** | 10 401 714 | 11307-050N | GSWP 050 00 |
| 0.2 | 90 | Plain/*uni* | 25 | **8.220.018** | - | 11307-090N | GSWP 090 00 |
| 0.2 | 142 | Plain/*uni* | 25 | **8.220.019** | 10 401 731 | 11307-142G | GSWP 142 50 |
| 0.2 | 293 | Plain/*uni* | 25 | **8.220.020** | - | 11307-293G | GSWP 293 50 |
| | | | | | **ME 24** | **113** | **PHWP** |
| 0.3 | 13 | Plain/*uni* | 100 | **8.220.030** | - | - | - |
| 0.3 | 25 | Plain/*uni* | 100 | **8.220.031** | 10 401 906 | 11347-025N | PHWP 025 00 |
| 0.3 | 47 | Plain/*uni* | 100 | **8.220.032** | - | 11347-047N | PHWP 047 00 |
| 0.3 | 50 | Plain/*uni* | 100 | **8.220.033** | - | - | - |
| 0.3 | 90 | Plain/*uni* | 25 | **8.220.034** | - | - | PHWP 090 25 |
| 0.3 | 142 | Plain/*uni* | 25 | **8.220.035** | - | 11347-142G | PHWP 142 50 |
| 0.3 | 293 | Plain/*uni* | 25 | **8.220.036** | | 11347-293G | PHWP 293 25 |

**Mixed Cellulose Ester Membranes (MCE),** white, non-sterile, hydrophilic

***Membranes filtrantes en esther de cellulose mixte,*** *blanches, hydrophiles, non-stériles*

| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Surface<br>*Surface* | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* | Equivalent<br>Whatman<br>Type | Equivalent<br>Sartorius<br>Type | Equivalent<br>Millipore<br>Type |
|---|---|---|---|---|---|---|---|
| | | | | | **ME 24** | **113** | **HAWP - HAWG** |
| 0.45 | 13 | Plain/*uni* | 100 | **8.220.040** | 10 401 601 | 11306-013N | HAWP 013 00 |
| 0.45 | 13 | Grid/*quadrillé* | 100 | **8.220.041** | - | - | HAWG 013 00 |
| 0.45 | 25 | Plain/*uni* | 100 | **8.220.042** | 10 401 606 | 11306-025N | HAWP 025 00 |
| 0.45 | 25 | Grid/*quadrillé* | 100 | **8.220.043** | - | 11306-025N | HAWG 025 00 |
| 0.45 | 37 | Plain/*uni* | 100 | **8.220.044** | - | 11306-037N | - |
| 0.45 | 37 | Grid/*quadrillé* | 100 | **8.220.045** | - | - | - |
| 0.45 | 47 | Plain/*uni* | 100 | **8.220.046** | 10 401 612 | 11306-047N | HAWP 047 00 |
| 0.45 | 47 | Grid/*quadrillé* | 100 | **8.220.047** | 10 406 812 | 11406-047N | HAWG 047 00 |
| 0.45 | 50 | Plain/*uni* | 100 | **8.220.048** | 10 401 614 | 11306-050N | HAWP 050 00 |
| 0.45 | 50 | Grid/*quadrillé* | 100 | **8.220.049** | 10 406 514 | 11406-050N | HAWG 050 00 |
| 0.45 | 90 | Plain/*uni* | 25 | **8.220.050** | 10 401 618 | 11306-090G | HAWP 090 00 |
| 0.45 | 142 | Plain/*uni* | 25 | **8.220.051** | 10 401 631 | 11306-142G | HAWP 142 50 |
| 0.45 | 293 | Plain/*uni* | 25 | **8.220.052** | - | 11306-293G | HAWP 293 25 |
| | | | | | **ME 26** | **113** | **DAWP** |
| 0.65 | 13 | Plain/*uni* | 100 | **8.220.060** | - | - | DAWP 013 00 |
| 0.65 | 13 | Grid/*quadrillé* | 100 | **8.220.061** | - | - | - |
| 0.65 | 25 | Plain/*uni* | 100 | **8.220.062** | - | 11305-025N | DAWP 025 00 |
| 0.65 | 25 | Grid/*quadrillé* | 100 | **8.220.063** | - | - | - |
| 0.65 | 47 | Plain/*uni* | 100 | **8.220.064** | 10 401 512 | 11305-047N | DAWP 047 00 |
| 0.65 | 47 | Grid/*quadrillé* | 100 | **8.220.065** | - | 11405-047N | - |
| 0.65 | 50 | Plain/*uni* | 100 | **8.220.066** | 10 401 514 | 11305-050N | DAWP 050 00 |
| 0.65 | 50 | Grid/*quadrillé* | 100 | **8.220.067** | - | - | - |
| 0.65 | 90 | Plain/*uni* | 25 | **8.220.068** | - | - | DAWP 090 25 |
| 0.65 | 142 | Plain/*uni* | 25 | **8.220.069** | - | 11305-142G | DAWP 142 50 |
| 0.65 | 293 | Plain/*uni* | 25 | **8.220.070** | - | 11305-293G | DAWP 293 25 |
| | | | | | **ME 27** | **113** | **AAWP-AAWG** |
| 0.8 | 13 | Plain/*uni* | 100 | **8.220.080** | - | 11304-013N | AAWP 013 00 |
| 0.8 | 13 | Grid/*quadrillé* | 100 | **8.220.081** | - | - | AAWG 013 00 |
| 0.8 | 25 | Plain/*uni* | 100 | **8.220.082** | 10 400 906 | 11304-025N | AAWP 025 00 |
| 0.8 | 37 | Plain/*uni* | 100 | **8.220.083** | 10 400 909 | 11304-037N | - |
| 0.8 | 37 | Grid/*quadrillé* | 100 | **8.220.084** | - | - | - |
| 0.8 | 47 | Plain/*uni* | 100 | **8.220.085** | 10 400 912 | 11304-047N | AAWP 047 00 |
| 0.8 | 47 | Grid/*quadrillé* | 100 | **8.220.086** | - | 11404-047N | AAWG 047 00 |
| 0.8 | 50 | Plain/*uni* | 100 | **8.220.087** | 10 400 914 | 11304-050N | AAWP 050 00 |
| 0.8 | 50 | Grid/*quadrillé* | 100 | **8.220.088** | - | 11404-050N | - |
| 0.8 | 90 | Plain/*uni* | 25 | **8.220.089** | - | 11304-090G | AAWP 090 00 |
| 0.8 | 142 | Plain/*uni* | 25 | **8.220.090** | - | 11303-142G | AAWP 142 50 |
| 0.8 | 293 | Plain/*uni* | 25 | **8.220.091** | 10 400 939 | 11304-293G | AAWP 293 25 |
| | | | | | **ME 28** | **113** | **RAWP** |
| 1.0 | 13 | Plain/*uni* | 100 | **8.220.100** | - | - | RAWP 013 00 |
| 1.0 | 25 | Plain/*uni* | 100 | **8.220.101** | 10 400 806 | 11303-025N | RAWP 025 00 |
| 1.0 | 47 | Plain/*uni* | 100 | **8.220.102** | 10 400 812 | 11303-047N | RAWP 047 00 |
| 1.0 | 50 | Plain/*uni* | 100 | **8.220.103** | 10 400 814 | 11303-050N | - |
| 1.0 | 90 | Plain/*uni* | 25 | **8.220.104** | - | 11303-090G | RAWP 090 25 |
| 1.0 | 142 | Plain/*uni* | 25 | **8.220.105** | - | 11303-142G | RAWP 142 50 |
| 1.0 | 293 | Plain/*uni* | 25 | **8.220.106** | - | 11303-293G | RAWP 293 25 |
| | | | | | **ME 29** | **113** | **SSWP** |
| 3.0 | 13 | Plain/*uni* | 100 | **8.220.110** | - | 11302-013N | SSWP 013 00 |
| 3.0 | 25 | Plain/*uni* | 100 | **8.220.111** | 10 400 706 | 11302-025N | SSWP 025 00 |
| 3.0 | 47 | Plain/*uni* | 100 | **8.220.112** | 10 400 712 | 11302-047N | SSWP 047 00 |
| 3.0 | 50 | Plain/*uni* | 100 | **8.220.113** | 10 400 714 | 11302-050N | SSWP 050 00 |
| 3.0 | 90 | Plain/*uni* | 25 | **8.220.114** | - | - | SSWP 090 25 |
| 3.0 | 142 | Plain/*uni* | 25 | **8.220.115** | - | 11302-142G | SSWP 142 50 |
| 3.0 | 293 | Plain/*uni* | 25 | **8.220.116** | - | 11302-293G | SSWP 293 25 |
| | | | | | **ME 29** | **113** | **SMWP** |
| 5.0 | 13 | Plain/*uni* | 100 | **8.220.120** | 140413 | 11342-013N | SMWP 013 00 |
| 5.0 | 25 | Plain/*uni* | 100 | **8.220.121** | 140613 | 11342-025N | SMWP 025 00 |
| 5.0 | 47 | Plain/*uni* | 100 | **8.220.122** | 141113 | 11342-047N | SMWP 047 00 |
| 5.0 | 50 | Plain/*uni* | 100 | **8.220.123** | - | 11342-050N | SMWP 050 00 |
| 5.0 | 90 | Plain/*uni* | 25 | **8.220.124** | - | 11342-090N | SMWP 090 25 |
| 5.0 | 142 | Plain/*uni* | 25 | **8.220.125** | - | 11342-142G | SMWP 142 50 |
| 5.0 | 293 | Plain/*uni* | 25 | **8.220.126** | - | 11342-293G | SMWP 293 25 |

**Cellulose Acetate membrane filters (CA),** non-sterile, plain

***Membranes filtrantes en acétate de cellulose (CA) pure uni,*** *hydrophile, non-stérile*

| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* | Equivalent<br>Whatman<br>Type | Equivalent<br>Sartorius<br>Type | Equivalent<br>MN<br>Type |
|---|---|---|---|---|---|---|
| | | | | **OE 66** | **111** | **68xxx** |
| 0.2 | 13 | 100 | **8.220.200** | - | 11107-013N | 68000020013 |
| 0.2 | 25 | 100 | **8.220.201** | 10 404 106 | 111107-025N | 68000020025 |
| 0.2 | 37 | 100 | **8.220.202** | - | - | - |
| 0.2 | 47 | 100 | **8.220.203** | 10 404 112 | 11107-047N | 68000020047 |
| 0.2 | 82 | 25 | **8.220.204** | - | - | - |
| 0.2 | 90 | 25 | **8.220.205** | - | 1107-090G | 68000020090 |
| 0.2 | 142 | 25 | **8.220.206** | 10 404 131 | 11107-142N | 68000020142 |
| 0.2 | 293 | 25 | **8.220.207** | 10 404 139 | 11107-293G | 68000020293 |
| | | | | **OE 67** | **111** | **68xxx** |
| 0.45 | 13 | 100 | **8.220.210** | 10 404 001 | 11106-013N | 68000045013 |
| 0.45 | 25 | 100 | **8.220.211** | 10 404 006 | 11106-025N | 68000045025 |
| 0.45 | 47 | 100 | **8.220.212** | 10 404 012 | 11106-047N | 68000045047 |
| 0.45 | 50 | 100 | **8.220.213** | 10 404 014 | 11106-050N | 68000045050 |
| 0.45 | 82 | 25 | **8.220.214** | - | - | - |
| 0.45 | 90 | 25 | **8.220.215** | - | 11106-090G | 68000045090 |
| 0.45 | 142 | 25 | **8.220.216** | - | 11104-142G | 68000045142 |
| 0.45 | 293 | 25 | **8.220.217** | - | 11104-293G | 68000045293 |
| | | | | **ST68** | **111** | **68xxx** |
| 0.8 | 13 | 100 | **8.220.220** | - | 11104-013N | 68000080013 |
| 0.8 | 25 | 100 | **8.220.221** | - | 11104-025N | 68000080025 |
| 0.8 | 47 | 100 | **8.220.222** | 10 403 112 | 11104-047N | 6800080047 |
| 0.8 | 82 | 25 | **8.220.223** | - | - | - |
| 0.8 | 90 | 25 | **8.220.224** | - | - | 6800080090 |
| 0.8 | 142 | 25 | **8.220.225** | - | 11104-142G | 6800080142 |
| 0.8 | 293 | 25 | **8.220.226** | - | 11104-293G | 6800080293 |

**PTFE Membrane filters, white plain, non-sterile, hydrophilic,** ideal for HPLC and other mixtures of aqueous and organic solvents, autoclavable

***Membranes filtrantes en Téflon (PTFE) hydrophile,*** *blanc uni non stérile et sans support pour HPLC et autres solvants organiques et mélanges aqueux. Autoclavables*

| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* | Equivalent<br>Millipore<br>Type |
|---|---|---|---|---|
| | | | | **JVWP** |
| 0.10 | 13 | 100 | **8.220.300** | JVWP 013 00 |
| 0.10 | 25 | 100 | **8.220.301** | JVWP 025 00 |
| 0.10 | 47 | 100 | **8.220.302** | JVWP 047 00 |
| 0.10 | 90 | 25 | **8.220.303** | JVWP 090 00 |
| 0.10 | 142 | 25 | **8.220.304** | JVWP 142 00 |
| | | | | **JGWP** |
| 0.20 | 13 | 100 | **8.220.310** | JGWP 013 00 |
| 0.20 | 25 | 100 | **8.220.311** | JGWP 025 00 |
| 0.20 | 47 | 100 | **8.220.312** | JGWP 047 00 |
| 0.20 | 90 | 25 | **8.220.313** | JGWP 090 00 |
| 0.20 | 142 | 25 | **8.220.314** | JGWP 142 00 |
| | | | | **JHWP** |
| 0.50 | 13 | 100 | **8.220.320** | JHWP 013 00 |
| 0.50 | 25 | 100 | **8.220.321** | JHWP 025 00 |
| 0.50 | 47 | 100 | **8.220.322** | JHWP 047 00 |
| 0.50 | 90 | 25 | **8.220.323** | JHWP 090 00 |
| 0.50 | 142 | 25 | **8.220.324** | JHWP 142 00 |
| | | | | **JAWP** |
| 1.00 | 13 | 100 | **8.220.330** | JAWP 013 00 |
| 1.00 | 25 | 100 | **8.220.331** | JAWP 025 00 |
| 1.00 | 47 | 100 | **8.220.332** | JAWP 047 00 |
| 1.00 | 90 | 25 | **8.220.333** | JAWP 090 00 |
| 1.00 | 142 | 25 | **8.220.334** | JAWP 142 00 |

**Hydrophobic PTFE membrane filters,** supported, white and plain, non-sterile

***Membranes filtrantes en Téflon (PTFE)*** *sur support en polypropylène, hydrophobe, blanc uni, non-stérile*

| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* | Equivalent<br>S&S<br>Type | Equivalent<br>Pall<br>Type | Equivalent<br>Millipore<br>Type | Equivalent<br>Whatman<br>Type |
|---|---|---|---|---|---|---|---|
| | | | | **TE35** | **TF200** | **FGLP** | **7582** |
| 0.20 | 13 | 100 | **8.220.400** | - | 66141 | FGLP 013 00 | 7582-001 |
| 0.20 | 25 | 100 | **8.220.401** | 10 411 405 | 66142 | FGLP 025 00 | 7582-002 |
| 0.20 | 47 | 100 | **8.220.402** | 10 411 411 | 66143 | FGLP 047 00 | 7582-004 |
| 0.20 | 50 | 100 | **8.220.403** | 10 411 413 | 66630 | - | - |
| 0.20 | 90 | 25 | **8.220.404** | - | - | FGLP 090 50 | - |
| 0.20 | 142 | 25 | **8.220.405** | - | 66145 | FGLP 142 50 | - |
| 0.20 | 293 | 10 | **8.220.406** | - | 66146 | FGLP 293 25 | - |
| | | | | **TE36** | **TF450** | **FHLP** | **7585** |
| 0.50 | 13 | 100 | **8.220.410** | 10 411 301 | 66147 | FHLP 013 00 | - |
| 0.50 | 25 | 100 | **8.220.411** | 10 411 305 | 66148 | FHLP 025 00 | - |
| 0.50 | 47 | 100 | **8.220.412** | 10 411 311 | 66149 | FHLP 047 00 | 7585-004 |
| 0.50 | 50 | 100 | **8.220.413** | 10 411 313 | 66631 | - | - |
| 0.50 | 90 | 25 | **8.220.414** | - | - | FHLP 090 50 | - |
| 0.50 | 142 | 25 | **8.220.415** | - | 66151 | FHLP 142 50 | - |
| 0.50 | 293 | 10 | **8.220.416** | - | 66152 | FHLP 293 25 | - |
| | | | | **TE37** | **TF1000** | **FALP** | **7590** |
| 1.00 | 13 | 100 | **8.220.420** | - | 66153 | FALP 013 00 | - |
| 1.00 | 25 | 100 | **8.220.421** | 10 411 205 | 66154 | FALP 025 00 | - |
| 1.00 | 37 | 100 | **8.220.422** | - | 66159 | - | 7590-003 |
| 1.00 | 47 | 100 | **8.220.423** | 10 411 211 | 66155 | FALP 047 00 | 7590-004 |
| 1.00 | 50 | 100 | **8.220.424** | 10 411 213 | - | - | - |
| 1.00 | 90 | 25 | **8.220.425** | - | - | FALP 090 50 | - |
| 1.00 | 142 | 25 | **8.220.426** | - | - | FALP 142 50 | - |
| 1.00 | 293 | 10 | **8.220.427** | - | - | FALP 293 25 | - |

**Hydrophobic PTFE membrane filters,** non-supported, white and plain, non-sterile

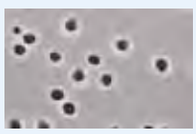
***Membranes filtrantes en Téflon (PTFE)*** *sans support, blanc uni, hydrophobe, non-stérile*

| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* | Equivalent<br>Sartorius<br>Type |
|---|---|---|---|---|
| | | | | **118** |
| 0.10 | 13 | 100 | **8.220.500** | - |
| 0.10 | 25 | 100 | **8.220.501** | - |
| 0.10 | 47 | 100 | **8.220.502** | - |
| 0.10 | 90 | 25 | **8.220.503** | - |
| 0.10 | 142 | 25 | **8.220.504** | - |
| 0.10 | 293 | 10 | **8.220.505** | - |
| | | | | **118** |
| 0.20 | 13 | 100 | **8.220.510** | 11807-013N |
| 0.20 | 25 | 100 | **8.220.511** | 11807-025N |
| 0.20 | 47 | 100 | **8.220.512** | 11807-047N |
| 0.20 | 90 | 25 | **8.220.513** | - |
| 0.20 | 142 | 25 | **8.220.514** | 11807-142G |
| 0.20 | 293 | 10 | **8.220.515** | 11807-293G |
| | | | | |
| 0.50 | 13 | 100 | **8.220.520** | 11806-013N |
| 0.50 | 25 | 100 | **8.220.521** | 11806-025N |
| 0.50 | 47 | 100 | **8.220.522** | 11806-047N |
| 0.50 | 90 | 25 | **8.220.523** | 11806-090G |
| 0.50 | 142 | 25 | **8.220.524** | 11806-142G |
| 0.50 | 293 | 10 | **8.220.525** | 11806-293G |
| | | | | **118** |
| 0.80 | 13 | 100 | **8.220.530** | - |
| 0.80 | 25 | 100 | **8.220.531** | - |
| 0.80 | 47 | 100 | **8.220.532** | - |
| 0.80 | 90 | 25 | **8.220.533** | - |
| 0.80 | 142 | 25 | **8.220.534** | - |
| 0.80 | 293 | 10 | **8.220.535** | - |
| | | | | **118** |
| 1.00 | 13 | 100 | **8.220.540** | 11803-013N |
| 1.00 | 25 | 100 | **8.220.541** | 11803-25N |
| 1.00 | 47 | 100 | **8.220.542** | 11803-047N |
| 1.00 | 90 | 25 | **8.220.543** | - |
| 1.00 | 142 | 25 | **8.220.544** | 11803-142G |
| 1.00 | 293 | 10 | **8.220.545** | - |

**Polycarbonate Membrane Filters, hydrophilic,** white and plain, non-sterile

***Membranes filtrantes en polycarbonate (PC), hydrophile,*** *en blanc uni, non-stérile*

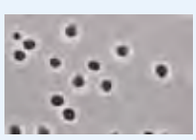
| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.10 | 13 | 100 | **8.220.600** |
| 0.10 | 25 | 100 | **8.220.601** |
| 0.10 | 47 | 100 | **8.220.602** |
| 0.20 | 13 | 100 | **8.220.610** |
| 0.20 | 25 | 100 | **8.220.611** |
| 0.20 | 47 | 100 | **8.220.612** |
| 0.40 | 13 | 100 | **8.220.620** |
| 0.40 | 25 | 100 | **8.220.621** |
| 0.40 | 47 | 100 | **8.220.622** |
| 0.80 | 13 | 100 | **8.220.630** |
| 0.80 | 25 | 100 | **8.220.631** |
| 0.80 | 47 | 100 | **8.220.632** |
| 8.00 | 13 | 100 | **8.220.640** |
| 8.00 | 25 | 100 | **8.220.641** |
| 8.00 | 47 | 100 | **8.220.642** |



**Polycarbonate Membrane Filters, hydrophilic,** black and plain non-sterile

***Membranes filtrantes en polycarbonate (PC), hydrophile,*** *en noir uni non-stérile*

| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 0.20 | 25 | 100 | **8.220.700** |
| 0.20 | 47 | 100 | **8.220.701** |
| 0.40 | 25 | 100 | **8.220.710** |
| 0.40 | 47 | 100 | **8.220.711** |



## Sterile Membrane Filters

*Membranes filtrantes stériles*

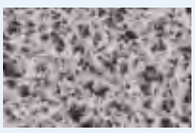
**Sterile mixed esters cellulose (MCE) membrane filters, white,** for microbiology

***Membranes filtrantes stériles en esther de cellulose mixte, blanches,*** *pour la microbiologie*

| Pore size<br>*Porosité*<br>µm | Ø<br>mm | Surface<br>*Surface* | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* | Equivalent<br>Whatman<br>Type | Equivalent<br>Sartorius<br>Type | Equivalent<br>Millipore<br>Type |
|---|---|---|---|---|---|---|---|
| 0.20 | 47 | Plain/*uni* | 100 | **8.221.000** | 10 401 770 | - | - |
| 0.20 | 47 | Grid/*quadrillé* | 100 | **8.221.001** | - | 11407-047ACN | GSWG 047 S1 |
| 0.45 | 47 | Plain/*uni* | 100 | **8.221.010** | 10 401 670 | - | - |
| 0.45 | 47 | Grid/*quadrillé* | 100 | **8.221.011** | 10 401 870 | 11406-047ACN | HAWG 047 -- |
| 0.45 | 50 | Plain/*uni* | 100 | **8.221.012** | 10 401 672 | - | - |
| 0.45 | 50 | Grid/*quadrillé* | 100 | **8.221.013** | 10 406 872 | 11406-050ACN | - |
| 0.65 | 47 | Plain/*uni* | 100 | **8.221.020** | - | - | - |
| 0.65 | 47 | Grid/*quadrillé* | 100 | **8.221.021** | - | 11405-047ACN | HCWG 047 -- |
| 0.65 | 50 | Grid/*quadrillé* | 100 | **8.221.022** | - | 11405-050ACN | - |
| 0.80 | 47 | Plain/*uni* | 100 | **8.221.030** | 10 400 970 | - | - |
| 0.80 | 47 | Grid/*quadrillé* | 100 | **8.221.031** | - | 11404-047ACN | - |
| 0.80 | 50 | Plain/*uni* | 100 | **8.221.032** | - | - | - |
| 0.80 | 50 | Grid/*quadrillé* | 100 | **8.221.033** | - | 11404-050ACN | - |
| 1.00 | 47 | Grid/*quadrillé* | 100 | **8.221.040** | - | 11403-047ACN | RAWG 047 -- |
| 1.00 | 50 | Grid/*quadrillé* | 100 | **8.221.041** | - | 11403-050ACN | - |
| 3.00 | 50 | Plain/*uni* | 100 | **8.221.050** | 10 400 772 | - | - |

**Sterile mixed esters cellulose membrane filters, black,** for microbiology

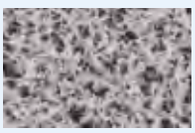
***Membranes filtrantes stériles en esther de cellulose mixte, noires,*** *pour la microbiologie*



| Pore size<br>*Porosité*<br>µm | Ø<br><br>mm | Surface<br>*Surface* | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.80 | 47 | Plain/*uni* | 100 | **8.221.100** |
| 0.80 | 47 | Grid/*quadrillé* | 100 | **8.221.101** |
| 0.45 | 47 | Plain/*uni* | 100 | **8.221.110** |
| 0.45 | 47 | Grid/*quadrillé* | 100 | **8.221.111** |
| 0.45 | 50 | Grid/*quadrillé* | 100 | **8.221.112** |

**Sterile mixed esters cellulose membrane filters, green,** for microbiology

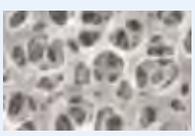
***Membranes filtrantes stériles en esther de cellulose mixte, vertes,*** *pour la microbiologie*



| Pore size<br>*Porosité*<br>µm | Ø<br><br>mm | Surface<br>*Surface* | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.45 | 47 | Grid/*quadrillé* | 100 | **8.221.200** |
| 0.45 | 50 | Grid/*quadrillé* | 100 | **8.221.201** |

**Sterile cellulose acetate membrane filters (CA), white**

***Membranes filtrantes stériles en acétate de cellulose pure (CA),*** *hydrophile, blanches*



| Pore size<br>*Porosité*<br>µm | Ø<br><br>mm | Surface<br>*Surface* | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.45 | 47 | Plain/*uni* | 100 | **8.221.300** |
| 0.45 | 82 | Plain/*uni* | 100 | **8.221.301** |
| 0.45 | 85 | Plain/*uni* | 100 | **8.221.302** |
| 0.20 | 47 | Plain/*uni* | 100 | **8.221.303** |

**Sheet /** *Feuille*

## Papers for chromatography

*Papiers pour chromatographie*

**Papers for Chromatography –** fine and medium aspiration, standard paper for chromatography and routine analysis, suitable for the analysis of proteins in serums, weight 90g/ m², thickness 0.190 mm and velocity of aspiration 93 mm/30min. Equivalent to: Whatman 1 Chr - MN 261 - S&S 2043a

***Papiers pour chromatographie*** *– mince et aspiration moyenne, type standard pour les analyses de routine et des proteines dans les sérums, poids 90g/ m², épaisseur 0.190 mm et vitesse d'aspiration moyenne de 93 mm/30 min. Equivalent à: Whatman 1 Chr - MN 261 S&S 2043a*



**8.218.*****

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 200 x 200 | 100 | **8.240.000** |
| 460 x 570 | 100 | **8.240.001** |

**Papers for Chromatography –** medium and medium aspiration, weight 120g/ m², thickness 0.240 mm and velocity of aspiration 93 mm/30min. Equivalent to: Whatman 2 Chr - MN 214 - S&S 2043b

***Papiers pour chromatographie*** *– poids 120g/ m², épaisseur 0.240 mm et vitesse d'aspiration moyenne de 93 mm/30 min. Equivalent à: Whatman 2 Chr - MN 214 - S&S 2043b*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 200 x 200 | 100 | **8.240.010** |
| 460 x 570 | 100 | **8.240.011** |

**Papers for Chromatography –** thick and medium aspiration, weight 190g/ m², thickness 0.360 mm and velocity of aspiration 130 mm/30min. used in transfer techniques by blotting. Equivalent to: Whatman 3 MM Chr - MN 218 and S&S 598 L/8

***Papiers pour chromatographie** – poids 190g/ m², épaisseur 0.360 mm et vitesse d'aspiration moyenne de 130 mm/30 min. Utilisés pour la plupart des techniques de transfert. Equivalent à: Whatman 3 MM Chr - MN 218 et S&S 598 L/8*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 200 x 200 | 100 | **8.240.020** |
| 460 x 570 | 100 | **8.240.021** |

**Papers for Chromatography –** thick and quick aspiration, weight 150g/ m², thickness 0.320 mm and velocity of aspiration 145 mm/30min. Equivalent to: Whatman 3 Chr - S&S 2040a

***Papiers pour chromatographie** – poids 150g/ m², épaisseur 0.320 mm et vitesse d'aspiration rapide de 145 mm/30 min. Equivalent à: Whatman 3 Chr S&S 2040a*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 200 x 200 | 100 | **8.240.030** |
| 460 x 570 | 100 | **8.240.031** |

**Flat /** *Plat*

**Sheet /** *Feuille*



**8.218.*****

## Papers for germination tests

*Papiers pour test de germination*

**Thick absorbent paper sheets for germination,** weight 390 g/m², thickness 0.930 mm and 115/129 mm/10 min. Klemm absorption

***Plaques en papier pour test de germination,** de 0.930 mm d'épaisseur, poids 390g/m² et taux d'aborption selon Klemm de 115/129 mm/10min.*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 320 x 420 | 500 | **8.240.500** |
| 420 x 520 | 500 | **8.240.501** |

**Thick absorbent paper circles for germination,** weight 390 g/m², thickness 0.930 mm and 115/129 mm/10 min. Klemm absorption

***Disques en papier pour test de germination,** de 0.930 mm d'épaisseur, poids 390g/m² et taux d'aborption selon Klemm de 115/129 mm/10min.*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 75 | 100 | **8.240.510** |
| 85 | 100 | **8.240.511** |
| 88 | 100 | **8.240.512** |
| 95 | 100 | **8.240.513** |
| 130 | 100 | **8.240.514** |
| 160 | 100 | **8.240.515** |
| 170 | 100 | **8.240.516** |



**8.218.5****

**Circles of crepe papers for germination tests** in Copenhagen cabinets (in combination with the stretched absorption strips Order No. 8.218.53*) and in bells, weight 155 g/m², thickness 0,500 mm and 110/115 mm/10 min. Klemm absorption

***Disques en papier crêpé pour test de germination** en enceintes Copenhagen ( en relation avec les bandelettes d'absorption N° de code 8.218.53*) et en cloches de germination, de 0.500 mm d'épaisseur, poids 155g/m² et taux d'aborption selon Klemm de 110/115 mm/10min.*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 75 | 100 | **8.240.520** |
| 85 | 100 | **8.240.521** |
| 88 | 100 | **8.240.522** |
| 95 | 100 | **8.240.523** |
| 130 | 100 | **8.240.524** |
| 160 | 100 | **8.240.525** |
| 170 | 100 | **8.240.526** |

**Strips /** *Bandelettes*

**Strips folded /** *Bandelettes plissées*



**8.218.5****



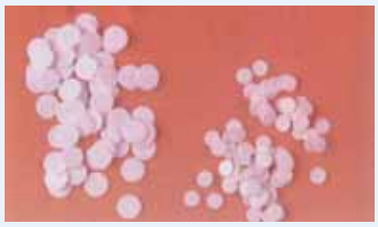
**8.218.6****

**Sheet /** *Feuille*



**8.218.61***

**Flat /** *Plat*



**8.218.7****

**Stretched absorption strips,** especially indicated for use in Copenhagen tanks and germination bells and in relation with the circle crepe papers Order No. 8.218.52*

***Bandelettes d'absorption étirées,*** *pour utilisation en enceintes Copenhagen et en cloches de germination en relation avec les papiers crêpés en disque N° de code 8.218.52**

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 30 x 200 | 100 | **8.240.530** |
| 18 x 320 | 100 | **8.240.531** |

**Folded Absorption strips,** for Neeb germination tests of beet seeds

***Bandelettes d'absorption pliées,*** *pour les tests de germination Neeb sur semences de béteraves*

| Dimensions<br>(length x width x height)<br>*Dimensions*<br>*(longueur x largeur x hauteur)*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 2000 x 110 x 20 | 32 | **8.240.540** |

## Weighing aids

***Pour le pesage***

**Weighing boats,** made of nitrogen-free parchment, used to weigh viscous or syrupy substances.

***Nacelles de pesée,*** *en papier parchemin exempt d'azote. Pour le pesage de substances visqueuses ou de sirops. Conditionnement: 100 pcs.*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 58 x 10 x 10 | 100 | **8.242.600** |
| 70 x 33 x 15 | 100 | **8.242.601** |

**Weighing paper,** transparent paper, smooth on both sides, used as substitute for weighing boats.

***Papier de pesée transparent,*** *à surfaces lisses sur les deux faces assurant un transfert sans perte du produit*

| Dimensions<br>*Dimensions*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 50 x 50 | 500 | **8.242.610** |
| 100 x 100 | 500 | **8.242.611** |
| 150 x 150 | 500 | **8.242.612** |

**Parchment sheets,** are mainly used in the sugar industry for weighing syrupy and semi-crystalline substances.

***Feuilles de papier parchemin,*** *utilisées spécialement dans l'industrie sucrière pour les pesées de substances semi-cristalline*

| Dimensions<br>*Dimensions*<br>mm | Standard packs<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 10 x 10 | 1000 | **8.242.620** |
| 12 x 12 | 1000 | **8.242.621** |

## Antibiotic Tests

***Pour les tests d'antibiotique***

**Disks** are used in testing the resistance of pathogens to antibiotics. For this test the filter paper sections are impregnated with the antibiotic to be tested and placed on the inoculated nutrient medium

***Disques*** *utilisés pour les tests de résistance des pathogènes aux antibiotiques. Le papier est imprégné avec l'antibiotique à tester et est placé dans un milieu d'organisme inoculé*

| Specifications<br>*Spécifications*<br>Ø mm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 6 | 1000 | **8.242.700** |
| 9 | 1000 | **8.242.701** |
| 13 | 1000 | **8.242.702** |

## Papers for cleaning

## *Papier pour le nettoyage*

**Lens tissue paper (Joseph paper),** thin, soft, non-fluffing tissue paper for cleaning optical glasses, lenses, cuvettes etc.

***Papier Joseph*** *pour nettoyages optiques, mince, approprié pour les lentilles, cuvettes, verres optiques etc.*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | | |
|---|---|---|---|
| 12 x 12 | 500 | **8.242.800** | - |
| 35 x 46 | 500 | **8.242.801** | - |
| 8 x 10 | 1 x 50 sheets/*feuilles* | - | **8.242.810** |

## Papers for protection

## *Papier pour la protection*

**Absorbent paper with polyethylene**
Suitable for protection in trays, laboratory tables, animal cages and on any surface where complete water-tightness is required. Available in reams of 100 or 500 sheets or in reel. Equivalent to: Whatman Benchkote - MN 210PE - S&S 295PE

***Papier absorbent à revêtement en polyéthylène***
*A double face avec film en polyéthylène, protège les tables de travail, les cages pour animaux et autres contre les infiltrations et est absolument imperméable. Disponible en rame de 100 ou 500 feuilles ou en rouleau. Equivalent à: Whatman Benchkote - MN 210PE - S&S 295PE*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | | |
|---|---|---|---|
| 32 x 42 cm | 100 | **8.242.850** | - |
| 42 x 52 cm | 100 | **8.242.851** | - |
| 50 x 50 cm | 100 | **8.242.852** | - |
| 32 x 42 cm | 500 | **8.242.853** | - |
| 42 x 52 cm | 500 | **8.242.854** | - |
| 50 x 50 cm | 500 | **8.242.855** | - |
| 50 x 50 m | 1 | - | **8.242.860** |
| 50 x 100 m | 1 | - | **8.242.861** |

**Surface protection paper LAB-TOP,**
filter paper coated on one side with polyethylene, e.g. for covering laboratory work-benches.

***Papier protecteur de surface avec revêtement en polyéthylène,*** *destiné à protéger les surfaces de travail en bactériologie et isotope et absorbe les éclaboussures de liquides*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | | |
|---|---|---|---|
| 48 x 60 cm | 100 | **8.242.870** | - |
| 48 x 60 cm | 50 | **8.242.871** | - |
| 48 x 100 m | 1 | - | **8.242.872** |
| 48 x 50 m | 1 | - | **8.242.873** |
| 60 x 100 m | 1 | - | **8.242.874** |
| 60 x 50 m | 1 | - | **8.242.875** |

## Aluminium Paper

## *Papier en aluminium*

**Aluminium paper rolls**
pack of 6 rolls, supplied without dispenser

***Rouleaux de papier en aluminium***
*en paquet de 6 rouleaux, livrés sans distributeur*

| Dimensions<br>*Dimensions*<br>cm | Standard pack<br>*Conditionnement*<br>pcs. | |
|---|---|---|
| 25 x 300 | 6 | **8.242.900** |
| 29 x 300 | 6 | **8.242.901** |
| 40 x 300 | 6 | **8.242.902** |

**Block /** *Pochette*

**Sheet /** *Feuille*

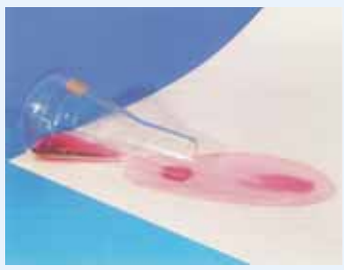
**Spool /** *Rouleau*



**8.218.8****



**8.218.85***



**8.218.87****



**8.218.9****

# DIALYSIS MEMBRANES
## *MEMBRANES DE DIALYSE*

**Standard regenerated cellulose (RC) dialysis membranes from cotton liners,** are used for general laboratory dialysis functions i.e. desalting, buffer exchange, or molecular separation. Spectra/Por® 1 through 6 also contains small amounts of impurities which are easily removed by washing. It is advised to wash the membrane in Spectra/Por® Sulphide Removal Solution when the material to be dialyzed is sensitive to these contaminants

***Les membranes de dialyse en cellulose régénérée (RC)*** *sont utilisées pour des fonctions de dialyse en laboratoire telles que dessalement, échange de tampon, ou séparation moléculaire.*
*Les modèles Spectra/Por 1 à 6 contiennent aussi de petites quantités d'impuretés qui sont facilement enlevées au lavage. Il est recommandé de laver la membrane dans une solution de sulfure lorsque le produit à dialyser est sensible à ces contaminants*

| Specifications | | Spectra/Por 1 | Spectra/Por 2 | Spectra/Por 3 | Spectra/Por 4 |
|---|---|---|---|---|---|
| **MWCO (kilo Daltons)** | : | 6 to 8 | 12 to 14 | 3.5 | 12 to 14 |
| Physical properties | : | Transparent, Flexible | Transparent, Flexible | Transparent, Flexible | Transparent, Flexible |
| Packaging | : | Dry | Dry | Dry | Dry |
| Preservative | : | Glycerin | Glycerin | Glycerin | Glycerin |
| Trace elements contents | : | Heavy metals, sulfides | Heavy metals, sulfides | Heavy metals, sulfides | Heavy metals, sulfides |
| Flat width range (mm) | : | 10 to 120 | 8 to 120 | 18 to 54 | 10 to 65 |
| Sample volume range (ml) | : | 1 to 1000 | 1 to 1000 | 2 to 200 | 1 to 300 |
| Disk/Flat sheet | : | Yes | Yes | Yes | Yes |

| Specifications | | Spectra/Por 5 | Spectra/Por 6 | Spectra/Por 7 |
|---|---|---|---|---|
| **MWCO (kilo Daltons)** | : | 12 to 14 | 1, 2, 3.5, 8, 10, 15, 25, 50 | 1, 2, 3.5, 8, 10, 15, 25, 50 |
| Physical properties | : | Thick, Rigid | Transparent, Flexible | Transparent, Flexible |
| Packaging | : | Dry | Wet | Wet |
| Preservative | : | Glycerin | .1 % sodium azide | .1 % sodium azide |
| Trace elements contents | : | Heavy metals, sulfides | Heavy metals, sulfides | Minimal |
| Flat width range (mm) | : | 65 to 140 | 6 to 54 | 6 to 54 |
| Sample volume range (ml) | : | 25 to 1200 | 1 to 150 | 1 to 150 |
| Disk/Flat sheet | : | Yes | No | No |



**Spectra/Por® 1 Dialysis Membranes**
**6.000 - 8.000 MWCO**

***Spectra/Por® 1 Dialysis Membranes***
***6.000 - 8.000 MWCO***

| Flat width<br>*Largeur/plat*<br>mm | Ø<br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Length<br>*Longueur*<br>m | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 6.4 | 0.32 | 15 | **8.245.000** |
| 23 | 14.6 | 1.7 | 30 | **8.245.001** |
| 32 | 20.4 | 3.3 | 30 | **8.245.002** |
| 40 | 25.5 | 5.1 | 30 | **8.245.003** |
| 50 | 32.0 | 8.0 | 30 | **8.245.004** |
| 100 | 64.0 | 32.0 | 15 | **8.245.005** |
| 120 | 76.0 | 46.0 | 15 | **8.245.006** |

**Spectra/Por® 2 Dialysis Membranes**
**12.000 - 14.000 MWCO**

***Spectra/Por® 2 Dialysis Membranes***
***12.000 - 14.000 MWCO***

| Flat width<br>*Largeur/plat*<br>mm | Ø<br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Length<br>*Longueur*<br>m | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 6 | 3.8 | 0.1 | 15 | **8.245.010** |
| 10 | 6.4 | 0.32 | 15 | **8.245.011** |
| 25 | 16.0 | 2.0 | 15 | **8.245.012** |
| 45 | 29.0 | 6.4 | 15 | **8.245.013** |
| 105 | 67.0 | 34.0 | 15 | **8.245.014** |
| 120 | 76.0 | 46.0 | 15 | **8.245.015** |

**Spectra/Por® 3 Dialysis Membranes**
**3.500 MWCO**

***Spectra/Por® 3 Dialysis Membranes***
***3.500 MWCO***

| Flat width<br>*Largeur/plat*<br>mm | Ø<br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Length<br>*Longueur*<br>m | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 18 | 11.5 | 1.0 | 15 | **8.245.020** |
| 45 | 29.0 | 6.4 | 15 | **8.245.021** |
| 54 | 34.0 | 9.3 | 15 | **8.245.022** |

**Spectra/Por® 4 Dialysis Membranes**
**12.000 - 14.000 MWCO**

***Spectra/Por® 4 Dialysis Membranes***
***12.000 - 14.000 MWCO***

| Flat width<br>*Largeur/plat*<br>mm | Ø<br><br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Length<br>*Longueur*<br>m | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10 | 6.4 | 0.32 | 30 | **8.245.030** |
| 25 | 16.0 | 2.0 | 30 | **8.245.031** |
| 32 | 20.4 | 3.3 | 30 | **8.245.032** |
| 45 | 29.0 | 6.4 | 30 | **8.245.033** |
| 75 | 48.0 | 18.0 | 15 | **8.245.034** |



**Spectra/Por® 5 Dialysis Membranes**
**High wet strange 12.000 - 14.000 MWCO**
is reinforced with a layer of porous paper to increase its wet strength for use in high shear or torque environments

***Spectra/Por® 4 Dialysis Membranes***
***12.000 - 14.000 MWCO***

| Flat width<br>*Largeur/plat*<br>mm | Ø<br><br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Length<br>*Longueur*<br>m | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 75 | 48.0 | 13.0 | 15 | **8.245.040** |
| 140 | 89.0 | 62.0 | 15 | **8.245.041** |

**Spectra/Por® Openers vor types 1 to 5**
Solve the problem of opening dry dialysis tubing with Spectra/Por Openers. They have a strong adhesive that grips the dry tubing for easy membrane separation for filling with sample solution. Supplied in pack of 100 pcs.

***Ouvre-membranes pour types 1à 5***
*Permettent d'ouvrir facilement les tuyaux secs de dialyse pour leur remplissage avec la solution d'échantillon, Livrés en paquet de 100*

| | Order No.<br>*N° de code* |
|---|---|
| | **8.245.050** |



**Spectra/Por® 6 Dialysis Membranes**

***Spectra/Por® 6 Dialysis Membranes***

| Flat width<br>*Largeur/plat*<br>mm | Ø<br><br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Order No.<br>*N° de code* |
|---|---|---|---|
| **MWCO 1.000** | | | |
| 18 | 11.5 | 1.0 | **8.245.100** |
| 38 | 24.0 | 4.6 | **8.245.101** |
| 45 | 29.0 | 6.4 | **8.245.102** |
| **MWCO 2.000** | | | |
| 18 | 11.5 | 1.0 | **8.245.110** |
| 38 | 24.0 | 4.6 | **8.245.111** |
| 45 | 29.0 | 6.4 | **8.245.112** |
| **MWCO 3.500** | | | |
| 18 | 11.5 | 1.0 | **8.245.120** |
| 45 | 29.0 | 6.4 | **8.245.121** |
| 54 | 34.0 | 9.3 | **8.245.122** |
| **MWCO 8.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.130** |
| 12 | 7.5 | 0.45 | **8.245.131** |
| 18 | 11.5 | 1.0 | **8.245.132** |
| 24 | 15.0 | 1.8 | **8.245.133** |
| 32 | 20.4 | 3.3 | **8.245.134** |
| 40 | 25.5 | 5.1 | **8.245.135** |
| 50 | 32.0 | 8.0 | **8.245.136** |
| **MWCO 10.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.140** |
| 12 | 7.5 | 0.45 | **8.245.141** |
| 18 | 11.5 | 1.0 | **8.245.142** |
| 24 | 15.0 | 1.8 | **8.245.143** |
| 32 | 20.4 | 3.3 | **8.245.144** |
| 45 | 29.0 | 6.4 | **8.245.145** |
| **MWCO 15.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.150** |
| 12 | 7.5 | 0.45 | **8.245.151** |
| 18 | 11.5 | 1.0 | **8.245.152** |
| 24 | 15.0 | 1.8 | **8.245.153** |
| 32 | 20.4 | 3.3 | **8.245.154** |
| 45 | 29.0 | 6.4 | **8.245.156** |









## Spectra/Por® 6 Dialysis Membranes

*Spectra/Por® 6 Dialysis Membranes*

| Flat width<br>*Largeur/plat*<br>mm | Ø<br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Order No.<br>*N° de code* |
|---|---|---|---|
| **MWCO 25.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.160** |
| 12 | 7.5 | 0.45 | **8.245.161** |
| 18 | 11.5 | 1.0 | **8.245.162** |
| 24 | 15.0 | 1.8 | **8.245.163** |
| 28 | 18.0 | 2.5 | **8.245.164** |
| 34 | 22.0 | 3.7 | **8.245.165** |
| **MWCO 50.000** | | | |
| 10 | 6.4 | 0.32 | **8.245.170** |
| 12 | 7.5 | 0.45 | **8.245.171** |
| 28 | 18.0 | 2.5 | **8.245.172** |
| 34 | 22.0 | 3.7 | **8.245.173** |

## Spectra/Por® 7 Dialysis Membranes

*Spectra/Por® 7 Dialysis Membranes*

| Flat width<br>*Largeur/plat*<br>mm | Ø<br>mm | Vol/Length<br>*Vol/Longueur*<br>ml/cm | Order No.<br>*N° de code* |
|---|---|---|---|
| **MWCO 1.000** | | | |
| 18 | 11.5 | 1.0 | **8.245.200** |
| 38 | 24.0 | 4.6 | **8.245.201** |
| 45 | 29.0 | 6.4 | **8.245.20** |
| **MWCO 2.000** | | | |
| 18 | 11.5 | 1.0 | **8.245.210** |
| 38 | 24.0 | 4.6 | **8.245.211** |
| 45 | 29.0 | 6.4 | **8.245.212** |
| **MWCO 3.500** | | | |
| 18 | 11.5 | 1.0 | **8.245.220** |
| 45 | 29.0 | 6.4 | **8.245.221** |
| 54 | 34.0 | 9.3 | **8.245.222** |
| **MWCO 8.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.230** |
| 12 | 7.5 | 0.45 | **8.245.231** |
| 18 | 11.5 | 1.0 | **8.245.232** |
| 24 | 15.0 | 1.8 | **8.245.233** |
| 32 | 20.4 | 3.3 | **8.245.234** |
| 40 | 25.5 | 5.1 | **8.245.235** |
| 50 | 32.0 | 8.0 | **8.245.236** |
| **MWCO 10.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.240** |
| 12 | 7.5 | 0.45 | **8.245.241** |
| 18 | 11.5 | 1.0 | **8.245.242** |
| 24 | 15.0 | 1.8 | **8.245.243** |
| 32 | 20.4 | 3.3 | **8.245.244** |
| 45 | 29.0 | 6.4 | **8.245.245** |
| **MWCO 15.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.250** |
| 12 | 7.5 | 0.45 | **8.245.251** |
| 18 | 11.5 | 1.0 | **8.245.252** |
| 24 | 15.0 | 1.8 | **8.245.253** |
| 32 | 20.4 | 3.3 | **8.245.254** |
| 45 | 29.0 | 6.4 | **8.245.255** |
| **MWCO 25.000** | | | |
| 6 | 3.8 | 0.1 | **8.245.260** |
| 12 | 7.5 | 0.45 | **8.245.261** |
| 18 | 11.5 | 1.0 | **8.245.262** |
| 24 | 15.0 | 1.8 | **8.245.263** |
| 28 | 18.0 | 2.5 | **8.245.264** |
| 34 | 22.0 | 3.7 | **8.245.265** |
| **MWCO 50.000** | | | |
| 12 | 7.5 | 0.45 | **8.245.270** |
| 28 | 18.0 | 2.5 | **8.245.271** |
| 34 | 22.0 | 3.7 | **8.245.272** |

**Heavy Metals Cleaning Solution**
When using Spectra/Por® membranes, the removal of sulfides or heavy metals is sometimes necessary. In normal use, membranes should be washed with distilled water and used without additional cleaning. For ultra-critical work, chelate wash the membrane with Spectra/Por Heavy Metals Cleaning Solution before use

***Solution de nettoyage pour métaux lourds.*** *En utilisant les membranes de dialyse Spectra/Por il est parfois nécessaire d'éliminer les sulfures et métaux lourds. Généralement ces membranes sont rincées à l'eau distillée. Pour les travaux ultra-sensibles, nous recommandons de laver la membrane avec cet kit.*

| | Order No. *N° de code* |
|---|---|
| Heavy Metals Cleaning Kit, 8 oz<br>*Kit de nettoyage des métaux lourds, 8 oz.* | 8.245.300 |



**Sulfide Removal Solution**
Spectra/Por® 1, 2, 3, 4, 5 and 6 membranes have 0.1% sulphur present from the manufacturing process which requires removal only if the presence might interfere with the subsequent analysis of the dialysate or retentate

***Solution pour éliminer les sulfures***
*Les membranes Spectra/Por 1, 2, 3, 4, 5 et 6 ont une teneur en soufre de 0.1% qui nécessite de les neutraliser. Ce kit est recommandé.*

| | Order No. *N° de code* |
|---|---|
| Sulfide Removal Kit, Solution A, 8 oz., Solution B, 8 oz.<br>*Kit de neutralisation des sulfures, solution A, 8 oz., Solution B, 8 oz.* | 8.245.350 |

**Universal Closures** for all Spectra/Por® dialysis membrane tubings.
Made of Polyamide
**Maximum Operating Temperature:** 90 °C
**Minimum Operating Temperature:** 0 °C
**Sanitation:** Ethylene oxide - Gamma irradiation - Ethanol or Formaldehyde.
Non-autoclavable
Standard pack of 10 pcs

***Fermetures universelles*** *pour toutes les membranes de dialyse, en polyamide. Haute résistance thermique de 0 à 90°C.*
*Non-autoclavable. En paquet standard de 10*

| Colour *Couleur* | Sealing width *Largeur de fermeture* 50 mm | Sealing width *Largeur de fermeture* 70 mm | Sealing width *Largeur de fermeture* 110 mm | Sealing width *Largeur de fermeture* 150 mm |
|---|---|---|---|---|
| ○ | 8.245.400 | 8.245.410 | 8.245.420 | 8.245.430 |
| ● | 8.245.401 | 8.245.411 | 8.245.421 | 8.245.431 |
| ● | 8.245.402 | 8.245.412 | 8.245.422 | 8.245.432 |
| ● | 8.245.403 | 8.245.413 | - | - |
| ● | 8.245.404 | 8.245.414 | - | - |
| ● | 8.245.405 | 8.245.415 | - | - |



**Closures for Spectra/Por**
Made of Polypropylene PP, autoclavable
Standard pack of 10 pcs

***Fermetures pour membranes de dialyse Spectra/Por,*** *en polypropylene PP, autoclavables*
*En paquet standard de 10*

| Colour *Couleur* | Sealing width *Largeur de fermeture* 5 mm | Sealing width *Largeur de fermeture* 12 mm | Sealing width *Largeur de fermeture* 23 mm |
|---|---|---|---|
| ● | 8.245.500 | 8.245.510 | 8.245.520 |
| ○ | 8.245.501 | 8.245.511 | 8.245.521 |
| ● | 8.245.502 | 8.245.512 | 8.245.522 |
| ● | 8.245.503 | 8.245.513 | 8.245.523 |
| **Colour** *Couleur* | **Sealing width** *Largeur de fermeture* 35 mm | **Sealing width** *Largeur de fermeture* 55 mm | **Sealing width** *Largeur de fermeture* 75 mm |
| ● | 8.245.530 | 8.245.540 | 8.245.550 |
| ○ | 8.245.531 | 8.245.541 | 8.245.551 |
| ● | 8.245.532 | 8.245.542 | 8.245.552 |
| ● | 8.245.533 | 8.245.543 | 8.245.553 |



# INDICATOR PAPER
## *PAPIERS INDICATEURS*




**8.220.000**

**pH Indicator Papers with colour scale supplied in reel of 5 meter in plastic box**

- Universal indicator paper covers the pH ranges 1 - 11 and 1 – 14; graduation of the colour scale is in steps of 1.0 pH units or 1.0/2.0 units, respectively.
- Special indicator paper (narrow range papers) usually covers a range of about 2 – 5 pH units in graduations of 0.2/0.3 or 0.5 units

***Papiers indicateurs universels et spéciaux avec échelle de couleur, livrés en rouleau de 5 mètres dans un boitier en plastique***

- *Les papiers universels couvrent les échelles 1-11 et 1-14, les échelons étant de 1.0 unité de pH et de 1.0/2.0 unités de pH, respectivement.*
- *Les papiers spéciaux couvrent les échelles de pH d'env. 2 à 5 unités, les échelons étant plus rapprochés: 0.2/0.3 ou 0.5 unité de pH*

| Description | Order No. *N° de code* |
|---|---|
| Universal-Indicator paper pH 1 - 11 | **8.250.000** |
| Universal-Indicator paper pH 1 - 11 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 1 - 11* | **8.250.001** |
| Universal-Indicator paper pH 1 - 14 | **8.250.005** |
| Universal-Indicator paper pH 1 - 14 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 1 - 14* | **8.250.006** |
| Special-Indicator paper pH 0.5 - 5.5 | **8.250.010** |
| Special-Indicator paper pH 0.5 - 5.5 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 0.5 - 5.5* | **8.250.011** |
| Special-Indicator paper pH 3.8 - 5.8 | **8.250.015** |
| Special-Indicator paper pH 3.8 - 5.8 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 3.8 - 5.8* | **8.250.016** |
| Special-Indicator paper pH 4.0 - 7.0 | **8.250.020** |
| Special-Indicator paper pH 4.0 - 7.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 4.0 - 7.0* | **8.250.021** |
| Special-Indicator paper pH 5.4 - 7.0 | **8.250.025** |
| Special-Indicator paper pH 5.4 - 7.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 5.4 - 7.0* | **8.250.026** |
| Special-Indicator paper pH 5.5 - 9.0 | **8.250.030** |
| Special-Indicator paper pH 5.5 - 9.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 5.5 - 9.0* | **8.250.031** |
| Special-Indicator paper pH 6.4 - 8.0 | **8.250.035** |
| Special-Indicator paper pH 6.4 - 8.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 6.4 - 8.0* | **8.250.036** |
| Special-Indicator paper pH 7.2 - 9.7 | **8.250.040** |
| Special-Indicator paper pH 7.2 - 9.7 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 7.2 - 9.7* | **8.250.041** |
| Special-Indicator paper pH 8.0 - 10.0 | **8.250.045** |
| Special-Indicator paper pH 8.0 - 10.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 8.0 - 10.0* | **8.250.046** |
| Special-Indicator paper pH 9.0 - 13.0 | **8.250.050** |
| Special-Indicator paper pH 9.0 - 13.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 9.0 - 13.0* | **8.250.051** |
| Special-Indicator paper pH 12.0 - 14.0 | **8.250.055** |
| Special-Indicator paper pH 12.0 - 14.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 12.0 - 14.0* | **8.250.056** |

**pH Indicator Paper DUOTEST**
Indicator papers with greater accuracy and increased ease of reading. Two complementary indicator zones on one strip – separated by a white centre band – guarantee clear colour differentiation and a more accurate estimate of intermediate values. The white centre band is hydrophobic and prevents that colours of the two indicator zones run into one another. Supplied in reel of 5 meter length in plastic box, rechargeable

***Papiers indicateurs de pH DUOTEST***
*Ils se caractérisent par une précision particulièrement élevée et par une lecture facile. Les deux zones indicatrices jumelées – séparées par une bande blanche centrale – garantissent une distinction claire de teintes différentes et une estimation plus sûre des valeurs intermédiaires. La bande blanche centrale est hydrophobe et empêche un mélange des deux zones indicatrices. Livrés en rouleau de 5 m dans un boitier en plastique rechargeable*

| Description | Order No.<br>*N° de code* |
|---|---|
| pH 1 - 12 | **8.250.100** |
| pH 1 - 12 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 1 - 12* | **8.250.101** |
| pH 1.0 - 4.3 | **8.250.105** |
| pH 1.0 - 4.3 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 1.0 - 4.3* | **8.250.106** |
| pH 3.5 - 6.8 | **8.250.110** |
| pH 3.5 - 6.8 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 3.5 - 6.8* | **8.250.111** |
| pH 5.0 - 8.0 | **8.250.115** |
| pH 5.0 - 8.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 5.0 - 8.0* | **8.250.116** |
| pH 7.0 - 10.0 | **8.250.120** |
| pH 7.0 - 10.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 7.0 - 10.0* | **8.250.121** |
| pH 9.5 - 14.0 | **8.250.125** |
| pH 9.5 - 14.0 refill pack with 3 reels<br>*Recharge de 3 rouleaux pH 14.5 - 7.0* | **8.250.126** |
| pH-Set, box with 10 different reels<br>(2 reels of pH 1 - 12 ; 3.5 - 6.8 ; 5.0 - 8.0 ; 7.0 - 10.0; 1 reel of pH 1.0 - 4.3 and 9.5 - 14.0)<br>*Assortiment de 10 rouleaux (2 rouleaux de chaque pour pH 1 - 12 ; 3.5 - 6.8 ; 5.0 - 8.0 ; 7.0 - 10.0 ; 1 rouleau de chaque pour pH 1.0 - 4.3 et 9.5 - 14.0)* | **8.250.130** |



**8.220.100**

**pH Indicator Sticks for pH measurement in coloured solutions.** A series of pH indicator papers where the indicator and colour scale are combined on a single strip. pH values are imprinted on the strips.The individual colour zones are separated by hydrophobic barriers. Supplied in plastic box with 200 strips of 11 x 100 mm

***Papiers indicateurs de pH en languettes***
*Pour la détermination du pH de solutions colorées. Une série pour lesquels l'indicateur et l'échelle de couleurs sont réunis sur une même languette. Les zones colorées individuelles de l'échelle sont séparées par des zones hydrophobes. Livrés en boite en plastique contenant 200 languettes de 11 x 100 mm*

| Description | Order No.<br>*N° de code* |
|---|---|
| pH 1.0 - 12.0 | **8.250.150** |
| pH 0.0 - 1.8 | **8.250.151** |
| pH 1.0 - 2.8 | **8.250.152** |
| pH 1.8 - 3.8 | **8.250.153** |
| pH 2.8 - 4.6 | **8.250.154** |
| pH 3.8 - 5.5 | **8.250.155** |
| pH 4.0 - 9.0 | **8.250.156** |
| pH 5.2 - 6.8 | **8.250.157** |
| pH 6.0 - 8.1 | **8.250.158** |
| pH 7.2 - 8.8 | **8.250.159** |
| pH 8.0 - 9.7 | **8.250.160** |
| pH 9.5 - 12.0 | **8.250.161** |
| pH 10.5 - 13.0 | **8.250.162** |
| pH 12.0 - 14.0 | **8.250.163** |



**8.220.15***

# INDICATOR PAPER
## *PAPIERS INDICATEURS*




**8.220.2****

**pH Indicator Sticks for pH measurement in weakly buffered or strongly alkaline solutions.** These sticks are for the rapid measurement of the pH of a water sample. Additionally they can be used for monitoring the pH of a sample during analysis to avoid errors due to weakly buffered solutions. In contrast to conventional indicator papers, the indicator dyes of pH-sticks are chemically bonded to the cellulose fibres. Supplied in plastic box with 100 strips 6 x 85 mm and colour scale

***Languettes indicatrices de pH – non migrantes***
*Pour la mesure du pH de solutions faiblement tamponnées ou fortement alcalines. Elles permettent une mesure rapide du PH d'un échantillon d'eau et de contrôler facilement, l'ajustage du pH au cours d'une analyse, afin d'éviter des erreurs sur des échantillons faiblement tamponnés. Pour de telles applications ces languettes surclassent les autres papiers indicateurs de pH. Livrées en boite en plastique avec 100 languettes 6 x 85mm, avec échelle de couleurs*

| Description | Order No. *N° de code* |
|---|---|
| pH 0 - 14 | **8.250.200** |
| pH 0.0 - 6.0 | **8.250.201** |
| pH 2.0 - 9.0 | **8.250.202** |
| pH 4.5 - 10.0 with CE-Mark | **8.250.203** |
| pH 6.0 - 10.0 | **8.250.204** |
| pH 7.0 - 14.0 | **8.250.205** |
| pH 0.3 - 2.3 | **8.250.206** |
| pH 1.7 - 3.8 | **8.250.207** |
| pH 3.6 - 6.1 with CE-Mark | **8.250.208** |
| pH 5.1 - 7.2 | **8.250.209** |
| pH 6.0 - 7.7 | **8.250.210** |
| pH 7.5 - 9.5 | **8.250.211** |
| pH 7.9 - 9.8 | **8.250.212** |




**8.220.22***

**Litmus Paper**
- Red Litmus Paper change to blue when the liquid is alkalic
- Blue Litmus Paper change to red when the liquid is acidic

***Papier de Litmus***
- *Le papier de couleur rouge change au bleu quand le liquide est alcalique*
- *Le papier de couleur bleue change au rouge quand le liquide est acidique*

| Dimensions mm | Packing *Conditionnement* | Order No. *N° de code* |
|---|---|---|
| **Red Litmus /** *Litmus rouge* | | |
| 7 x 70 | 10 booklets each of 20 strips<br>*10 livrets chacun de 20 bandellettes* | **8.250.250** |
| 9 x 85 | 10 boxes each of 100 strips<br>*10 boites chacune de 100 bandellettes* | **8.250.221** |
| **Blue Litmus /** *Litmus bleu* | | |
| 7 x 70 | 10 booklets each of 20 strips<br>*10 livrets chacun de 20 bandellettes* | **8.250.225** |
| 9 x 85 | 10 boxes each of 100 strips<br>*10 boites chacune de 100 bandellettes* | **8.250.226** |

**Concentration Test sticks for semi-quantitative determinations**
Test sticks meet the most important requirements for a modern quick-test: rapid dip and read and stable shelf life 2 1 /2 years when stored below + 30 °C.
In Plastic box with 100 test strips 6 x 95 mm
① Supplied with all the reagents for the determination
② Supplied in box of 60 test strips

***Languettes détectrices de concentration pour déterminations semi-quantitatives***
*Elles présentent les avantages les plus importants d'un test rapide moderne par immersion et lecture. Stabilité 2 ans et demi dans un endroit protégé ne dépassant pas les + 30 °C. Conditionnement standard en boite de 100 languettes de 6 x 95 mm*
① *Ces tests sont livrés avec tous les réactifs nécessaires pour la détermination*
② *Conditionnement: en boite de 60 languettes*

| Type<br>*Type* | Graduation colour change<br>*Virage* | Order No.<br>*N° de code* |
|---|---|---|
| **Aluminium** ① 0–5–20–50–200–500 mg/l $Al^{3+}$ | to | **8.250.250** |
| **Ammonium** ① 0–10–25–50–100–200–400 mg/l $NH^{4+}$ | to | **8.250.251** |
| **Arsenic** ① 0–0.05–0.1–0.5–1.0–1.7–3.0 mg/l $As^{3+/5+}$ | to | **8.250.252** |
| **Ascorbic acid** 0–50–100–200–300–500–1000–2000 mg/l | to | **8.250.253** |
| **Calcium** ①+② 0–10–25–50–100 mg/l $Ca^{2+}$ | to | **8.250.254** |
| **Carbonate hardness** 0–3–6–10–15–20°d | to | **8.250.255** |
| **Chloride** 0–500–1000–1500–2000– >3000 mg/l $Cl^-$ | to | **8.250.256** |
| **Chlorine** ① 0–1–3–10–30–100 mg/l $Cl^2$ | to | **8.250.257** |
| **Chromate** ① 0–3–10–30–100 mg/l $CrO_4^{2-}$ | to | **8.250.258** |
| **Cobalt** 0–10–25–50–100–250–500–1000 mg/l $Co^{2+}$ | to | **8.250.259** |
| **Copper** 0–10–30–100–300 mg/l $Cu^{+/2+}$ | to | **8.250.260** |
| **Cyanide** ① 0–1–3–10–30 mg/l $CN^-$ | to | **8.250.261** |
| **Formaldehyde** ① 0–10–20–40–60–100–200 mg/l HCH | to | **8.250.262** |
| **Iron 1000** ① 0–5–20–50–100–250–500–1000 mg/l $Fe^{2+/3+}$ | to | **8.250.263** |
| **Iron 100** ① 0–2–5–10–25–50–100 mg/l Fe 2+/3+ | to | **8.250.264** |
| **Molybdenum** ① 0–5–20–50–100–250 mg/l $Mo^{6+}$ | to | **8.250.265** |
| **Nickel** 0–10–25–50–100–250–500–1000 mg/l $Ni^{2+}$ | to | **8.250.266** |
| **Nitrate / Nitrite** 0–10–25–50–100–250–500 mg/l NO3-<br>0–1–5–10–20–40–80 mg/l NO2– | to | **8.250.267** |
| **Nitrite** 0–1–5–10–20–40–80 mg/l $NO_2^-$ | to | **8.250.268** |
| **Nitrite 3000** 0–0.1–0.3–0.6–1–2–3 g/l $NO_2^-$ | to | **8.250.269** |
| **Peroxide 100** 0–1–3–10–30–100 mg/l $H_2O_2$ | to | **8.250.270** |
| **Peroxide 25** 0–0,5–2–5–10–25 mg/l $H_2O_2$ | to | **8.250.271** |
| **Phosphate** ① 0–3–10–25–50–100 mg/l $PO_4^{3-}$ | to | **8.250.272** |
| **Potassium** ① 0–200–400–700–1000–1500 mg/l $K^+$ | to | **8.250.273** |
| **Sulphate** <200 – >400 – >800 – >1200 – >1600 mg/l $SO_4^{2-}$ | to | **8.250.274** |
| **Sulphite** 0–10–25–50–100–250–500–1000 mg/l $SO_3^{2-}$ | to | **8.250.275** |
| **Tin** 0–10–25–50–100–250–500 mg/l $Sn^{2+}$ | to | **8.250.276** |
| **Zinc** ① 0–2–5–10–25–50–100 mg/l $Zn^{2+}$ | to | **8.250.277** |




**8.220.25***



**8.220.272**

## Economical Vials, Closures and Inserts for HPLC & GC

*Flacons, fermetures et inserts économiques pour HPLC & CPG*

- Suitable for almost all automatic injectors in the market
- 2 ml Crimp Top vial and Screw Cap vials
- Crimp Seals and Screw Caps (9-425)

- *Compatibles avec la plupart des auto-injecteurs sur le marché*
- *Flacons à sertir de 2 ml et fermetures*
- *Fermetures à sertir et à visser (9-425)*



**8.251.000 - 8.251.002**



### Econo Vials 12 x 32 mm, Crimp Cap

*Flacons à sertir Econo 12x32mm*

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Vials 2 ml clear glass, wide opening crimp Top<br>*Flacons à sertir de 2ml en verre clair et col large* | 100 | **8.251.000** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | 100 | **8.251.010** |
| Vials 2 ml, clear glass, wide opening crimp top write-on patch with graduations 0.5,1.0 and 1.5 ml<br>*Flacons à sertir de 2ml en verre clair et col large avec surface à écrire blanche et graduations 0.5, 1.0 et 1.5 ml* | 100 | **8.251.001** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | 100 | **8.251.010** |
| Vials 2 ml, amber glass, wide opening crimp top write-on patch with graduations 0.5,1.0 and 1.5 ml<br>*Flacons à sertir de 2ml en verre brun et col large avec surface à écrire blanche et graduations 0.5, 1.0 et 1.5 ml* | 100 | **8.251.002** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | 100 | **8.251.010** |



**8.251.005 - 8.251.008**

### Econo Vials 12 x 32 mm, screw top cap

*Flacons à visser Econo 12x32mm*

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Vials 2 ml clear glass, wide opening, with screw Top<br>*Flacons à visser de 2ml en verre clair et col large* | 100 | **8.251.005** |
| Black, screw caps with PTFE/white silicone , Pre-slit<br>*Bouchons à visser noir, avec septum en PTFE/silicone blanc* | 100 | **8.251.011** |
| Vials 2 ml, clear glass, wide opening with screw top, write-on patch with graduations 0.5,1.0 and 1.5 ml<br>*Flacons à visser de 2ml en verre clair et col large avec surface à écrire blanche et graduations 0.5, 1.0 et 1.5 ml* | 100 | **8.251.006** |
| Black, screw caps with PTFE/white silicone , Pre-slit<br>*Bouchons à visser noir, avec septum en PTFE/silicone blanc* | 100 | **8.251.011** |
| Vials 2 ml, amber glass, wide opening with screw top, write-on patch with graduations 0.5,1.0 and 1.5 ml<br>*Flacons à visser de 2ml en verre brun et col large avec surface à écrire blanche et graduations 0.5, 1.0 et 1.5 ml* | 100 | **8.251.007** |
| Black, screw caps with PTFE/white silicone , Pre-slit<br>*Bouchons à visser noir, avec septum en PTFE/silicone blanc* | 100 | **8.251.011** |

## 20 mm Crimp Top Vials — *Flacons à setir de 20 mm*

| Description | Capcity *Capacité* ml | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Vials, clear glass, wide opening, crimp Top *Flacons à sertir verre clair et col large* | 8 | 100 | **8.251.020** |
| Vials, clear glass, wide opening, crimp Top *Flacons à sertir en verre clair et col large* | 12 | 100 | **8.251.021** |
| Vials, clear glass, wide opening, crimp Top *Flacons à sertir en verre clair et col large* | 25 | 100 | **8.251.022** |
| Vials, clear glass, wide opening, crimp Top *Flacons à sertir en verre clair et col large* | 60 | 100 | **8.251.023** |
| Vials, amberr glass, wide opening, crimp Top *Flacons à sertir en verre brun et col large* | 8 | 100 | **8.251.024** |
| Vials, amberr glass, wide opening, crimp Top *Flacons à sertir en verre brun et col large* | 12 | 100 | **8.251.025** |
| Vials, amberr glass, wide opening, crimp Top *Flacons à sertir en verre brun et col large* | 25 | 100 | **8.251.026** |



**8.251.02***

## 20 mm screw Top Vials — *Flacons à visser de 20 mm*

| Description | Capcity *Capacité* ml | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Vials, clear glass, wide opening, screw Top *Flacons à visser verre clair et col large* | 12 | 100 | **8.251.030** |
| Vials, clear glass, wide opening, screw Top *Flacons à visser en verre clair et col large* | 25 | 100 | **8.251.031** |
| Vials, amber glass, wide opening, screw Top *Flacons à visser en verre brun et col large* | 8 | 188 | **8.251.032** |
| Vials, amber glass, wide opening, screw Top *Flacons à visser en verre brun et col large* | 50 | 78 | **8.251.033** |



**8.251.03***

## Buty Stoppers for Vials — *Bouchons en butyl pour flacons*

| Description | Ø *Ø* mm | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Butyl stoppers *Bouchons en butyl* | 13 | 100 | **8.251.040** |
| Butyl stoppers *Bouchons en butyl* | 20 | 500 | **8.251.041** |



**8.251.040 - 8.251.041**

## Aluminium crimp seals for Vial — *Capsules à sertir en aluminium pour flacons*

| Description | Ø *Ø* mm | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Aluminium crimp seals with center tear-off *Capsules à sertir en aluminium à arrachage manuel du centre* | 13 | 100 | **8.251.045** |
| Aluminium crimp seals with center tear-off *Capsules à sertir en aluminium à arrachage manuel du centre* | 20 | 500 | **8.251.046** |



**8.251.045 - 8.251.046**

## Solid Screw-caps, without central hole — *Bouchons à visser, plein sans trou central*

| Description | Ø *Ø* mm | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Bakelite solid screw-caps without central hole *Bouchons en bakélite, plein sans trou* | 16 | 100 | **8.251.050** |



**8.251.050**

## Liners for Vials — *Liners pour flacons*

| Description | Ø *Ø* mm | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Liners PTFE/silicone *Liners en PTFE/silicone* | 16 | 100 | **8.251.055** |
| Liners PTFE/silicone *Liners en PTFE/silicone* | 20 | 100 | **8.251.056** |



**Crimpers, Decappers, and Decapping Pliers for 8 mm seals**

***Pinces à sertir, à dessertir et à décapsuler pour capsules de 8 mm***

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Crimper, manual, for 8 mm aluminium seals<br>*Pince à sertir manuelle pour capsules en aluminium de 8 mm* | 1 | **8.251.060** |
| Decapper, manual, for 8 mm aluminium seals<br>*Pince à dessertir manuelle pour capsules en aluminium de 8 mm* | 1 | **8.251.061** |
| Decapping pliers, for 8 mm aluminium seals<br>*Pince à débouchonner, pour capsules en aluminium de 8 mm* | 1 | **8.251.062** |

**Crimpers, Decappers, and Decapping Pliers for 11 mm seals**

***Pinces à sertir, à dessertir et à décapsuler pour capsules de 11mm***

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Crimper, manual, for 11 mm aluminium seals<br>*Pince à sertir manuelle pour capsules en aluminium de 11 mm* | 1 | **8.251.070** |
| Decapper, manual, for 11 mm aluminium seals<br>*Pince à dessertir manuelle pour capsules en aluminium de 11 mm* | 1 | **8.251.071** |
| Decapping pliers, for 11 mm aluminium seals<br>*Pince à débouchonner, pour capsules en aluminium de 11 mm* | 1 | **8.251.072** |



**Crimpers, Decappers, and Decapping Pliers for 20 mm seals**

***Pinces à sertir, à dessertir et à décapsuler pour capsules de 20 mm***

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Crimper, manual, for 20 mm aluminium seals<br>*Pince à sertir manuelle pour capsules en aluminium de 20 mm* | 1 | **8.251.080** |
| Decapper, manual, for 20 mm aluminium seals<br>*Pince à dessertir manuelle pour capsules en aluminium de 20 mm* | 1 | **8.251.081** |
| Decapping pliers, for 20 mm aluminium seals<br>*Pince à débouchonner, pour capsules en aluminium de 20 mm* | 1 | **8.251.082** |

## Vials, Closures and Inserts for Agilent Headspace

## *Flacons, fermetures et inserts pour Headspace Agilent*



**8.251.09***



**flat bottom**

**Vials, clear glass, flat bottom**

***Flacons à sertir, en verre clair, fond plat***

| Description | Agilent No. | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 ml Vials, clear glass, Flat Bottom, 23 x 46 mm, Beveled Edge<br>*Flacons à sertir de 10 ml en verre clair, fond plat, 23 x 46 mm, col biseauté* | 5181-0838 | 100 | **8.251.090** |
| 10 ml Vials, clear glass, Flat Bottom, 23 x 46 mm, square rim<br>*Flacons à sertir de 10 ml en verre clair, fond plat, 23 x 46 mm, col plat* | - | 1000 | **8.251.091** |
| 10 ml Vials, clear glass, Flat Bottom, 23 x 46 mm, Beveled Edge<br>*Flacons à sertir de 10 ml en verre clair, fond plat, 23 x 46 mm, col biseauté* | 5181-4475 | 100 | **8.251.092** |
| 20 ml Vials, clear glass, Flat Bottom, 23 x 75 mm, Beveled Edge<br>*Flacons à sertir de 20 ml en verre clair, fond plat, 23 x 75 mm, col biseauté* | - | 100 | **8.251.093** |
| 20 ml Vials, clear glass, Flat Bottom, 23 x 75 mm, square rim<br>*Flacons à sertir de 20 ml en verre clair, fond plat, 23 x 75 mm, col plat* | - | 1000 | **8.251.094** |

**20 mm Aluminium Crimp Seals with Liners for Headspace Vials**

***Capsules à sertir en aluminium avec liners pour flacons Headspace***

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Regular aluminium crimp seals with PTFE/Red Rubber liners, (- 40 to + 100 °C)<br>*Capsules à sertir en aluminium régulier avec liners en PTFE/caoutchouc rouge (- 40/+ 100 °C)* | 100 | **8.251.100** |
| Pressure release aluminium crimp seals PTFE/Red Rubber liners, (- 40 to + 100 °C)<br>*Capsules à sertir en aluminium à relâchement de pression avec liners en PTFE/caoutchouc rouge (- 40/+ 100 °C)* | 100 | **8.251.101** |
| Regular aluminium crimp seals with Ivory PTFE/Red Rubber liners, (- 40 to + 120 °C)<br>*Capsules à sertir en aluminium régulier avec liners en PTFE/caoutchouc rouge (- 40/+ 120 °C)* | 100 | **8.251.102** |
| Magnetic aluminium crimp seals with Ivory PTFE/grey butyl liners, (- 40 to + 120 °C)<br>*Capsules à sertir en aluminium magnétique avec liner en PTFE/caoutchouc rouge (- 40/+ 120 °C)* | 100 | **8.251.103** |
| Pressure release aluminium crimp seals with Ivory PTFE/grey butyl liners, (- 40 to + 120 °C)<br>*Capsules à sertir en aluminium à relâchement de pression avec liners en PTFE/caoutchouc rouge (- 40/+ 125 °C)* | 100 | **8.251.104** |
| Regular aluminium crimp seals with gray PTFE/black butyl liners, (- 40 to + 125 °C)<br>*Capsules à sertir en aluminium régulier avec liners en PTFE/butyl noir (- 40/+ 125 °C)* | 100 | **8.251.105** |
| Pressure release aluminium crimp seals with gray PTFE/black butyl liners, (- 40 to + 125 °C)<br>*Capsules à sertir en aluminium à relâchement de pression avec liner en PTFE/butyl noir (- 40/+ 125 °C)* | 100 | **8.251.106** |
| Regular aluminium crimp seals with tan PTFE/white silicone liners, (- 60 to + 200 °C)<br>*Capsules à sertir en aluminium régulier avec liners en PTFE/basané/butyl noir (- 60/+ 200 °C)* | 100 | **8.251.107** |
| Pressure release aluminium crimp seals with tan PTFE/white silicone liners, (- 60 to + 200 °C)<br>*Capsules à sertir en aluminium à relâchement de pression avec liners en PTFE/basané/butyl noir (- 60/+ 200 °C)* | 100 | **8.251.108** |
| Magnetic aluminium crimp seals with clear PTFE/translucent blue silicone liners, (- 60 to + 200 °C)<br>*Capsules à sertir en aluminium magnétique avec liners en PTFE/clair/silicone bleu translucide (- 60/+ 200 °C)* | 100 | **8.251.109** |
| Pressure release aluminium crimp seals with clear PTFE/translucent blue silicone liners, (- 60 to + 200 °C)<br>*Capsules à sertir en aluminium à relâchement de pression avec liners en PTFE/clair/silicone bleu translucide (- 60/+ 200 °C)* | 100 | **8.251.110** |
| Pressure release aluminium crimp seals with aluminium foil/white high temperature silicone liners, (- 60 to + 200 °C)<br>*Capsules à sertir en aluminium à relâchement de pression avec liners en silicone à face en aluminium (- 60/+ 200 °C)* | 100 | **8.251.111** |
| Storage caps, molded Polypropylene SepCap Integral<br>*Capuchons de stockage SepCap en polyprolyène moulée* | 100 | **8.251.112** |
| Magnetic aluminium crimp seals with Clear PTFE/Translucent Blue Silicone liners, (- 60 to + 200 °C)<br>*Capsules à sertir en aluminium magnétique à trou de 8 mm avec liners en clair/silicone bleu translucide (- 60/+ 200 °C)* | 100 | **8.251.113** |



**8.251.1****



flat bottom



## Vials, Closures and Inserts for Agilent HPLC & GC Autosamplers

*Flacons, fermetures et inserts pour Auto-injecteurs Agilent HPLC & GC*

- **Wide opening vial is easier to fill**
- **Fit most autosamplers that accommodate the 12x32 mm vial format**
- **Superior quality borosilicate clear glass or amber glass**

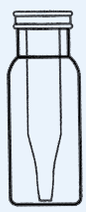
- *Col large ouverture facile à remplir*
- *Adaptés pour la plupart des auto-injecteurs utilisant des flacons de 12 x 32 mm*
- *Verre clair borosilicaté de haute qualité ou en verre brun*











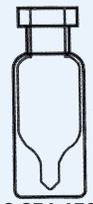
8.251.145

| Description | Agilent No. | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Vials 2 ml clear glass, wide opening crimp Top<br>*Flacons à sertir de 2ml en verre clair et col large* | 5181-3375 | 100 | **8.251.120** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | 5181-1210 | 100 | **8.251.121** |
| Vials 2 ml clear glass, wide opening crimp top write-on patch with graduations 0.5, 1.0 and 1.5 ml<br>*Flacons à sertir de 2ml en verre clair et col large avec surface à écrire blanche et graduations 0.5, 1.0 et 1.5 ml* | 5181-0543 | 100 | **8.251.125** |
| 11 mm crimp seal, with red PTFE/White Silicone/Red PTFE, for aggressive solvents<br>*Capsules à sertir de 11mm en aluminium avec septum septum pour solvants aggressifs, en PTFE/silicone blanc/téflon rouge* | 5181-1211 | 100 | **8.251.126** |
| Vials 2 ml amber glass, wide opening crimp Top<br>*Flacons à sertir de 2ml en verre brun et col large* | - | 100 | **8.251.130** |
| Vials 2 ml amber glass, wide opening crimp top write-on patch with graduations 0.5, 1.0 and 1.5 ml<br>*Flacons à sertir de 2ml en verre brun et col large avec surface à écrire blanche et graduations 0.5, 1.0 et 1.5 ml* | 5181-3376 | 100 | **8.251.131** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | - | 100 | **8.251.160** |
| 250 µl Fused Insert Vials, clear glass with write-on patch<br>*Flacons à sertir à tube intérieur de 250µl avec en verre clair et col large avec surface à écrire blanche* | - | 100 | **8.251.135** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | - | 100 | **8.251.160** |
| 300 µl Fused Insert Vials in 2 ml vial, clear glass with write-on patch<br>*Flacons à sertir à tube intérieur de 250µl avec en verre clair et col large avec surface à écrire blanche* | - | 500 | **8.251.140** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | - | 100 | **8.251.160** |
| 250 µl Fused Insert Vials, amber glass with write-on patch<br>*Flacons à sertir à tube intérieur de 250µl avec en verre brun et col large avec surface à écrire blanche* | - | 100 | **8.251.145** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | - | 100 | **8.251.160** |

- **Wide opening vial is easier to fill**
- **Fit most autosamplers that accommodate the 12x32 mm vial format**
- **Superior quality borosilicate clear glass or amber glass**

- *Col large ouverture facile à remplir*
- *Adaptés pour la plupart des auto-injecteurs utilisant des flacons de 12x32 mm*
- *Verre clair borosilicaté de haute qualité ou en verre brun*

| Description | Agilent No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| 400 µl solid glass Vials<br>*Flacons à sertir de 400µl en verre clair* | - | 12 | **8.251.150** |
| 11 mm Crimp aluminium seal, with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | - | 100 | **8.251.160** |



**8.251.150**

**Crimp seals with different septum materials**

***Capsules à sertir en aluminium avec différents types de septum***

| Description | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|
| 11 mm Crimp seal, with polypropylene, for corrosive solvents<br>*Capsule à sertir en aluminium de 11 mm, avec septum en polypropylène, pour solvants corrosifs* | 100 | **8.251.170** |
| 11 mm Crimp seal, with PTFE/White Silicone septum<br>*Capsule à sertir en aluminium de 11 mm, avec septum en PTFE/silicone blanche* | 100 | **8.251.171** |
| 11 mm Crimp seal, with black Viton Elastomer, for ECD, High chemical Resistance<br>*Capsule à sertir en aluminium de 11 mm, avec septum en Viton noir, pour détecteur ECD, à haute résitance chimique* | 100 | **8.251.172** |
| 11 mm Crimp seal, with with PTFE/Red Rubber, standard septum<br>*Capsules à sertir de 11mm en aluminium avec septum standard en PTFE/caoutchouc rouge* | 100 | **8.251.173** |



**Wide Opening Snap-It & Snap-Caps (12 x 32 mm).** Snap-it Vials can be used with snap caps or aluminium seals closures

***Flacons à col large de 12x32 mm*** *pour fermetures à sertir en aluminium ou à enfoncer*

| Description | Agilent No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Snap-It ™ Vial 2 ml clear glass, Wide Opening<br>*Flacons à Snap-It ™ de 2 ml en verre clair, large ouverture* | 5182-0544 | 100 | **8.251.180** |
| Snap-It ™ Vial 2 ml amber glass, Wide Opening<br>*Flacons à Snap-It ™ de 2 ml en verre brun, large ouverture* | 5182-0544 | 100 | **8.251.181** |
| Snap-It ™ Vial 2 ml clear glass, Wide Opening, Write-on patch with graduations 0.5, 1.0 and 1.5 ml<br>*Flacons à Snap-It ™ de 2 ml en verre clair, large ouverture, surface blanche à écrire et graduations de 0.5, 1.0 et 1.5ml* | 5182-0546 | 100 | **8.251.182** |
| Blue Snap Caps with PTFE/Red Rubber<br>*Bouchons bleu à enfoncer avec septum en PTFE/caoutchouc rouge* | 5182-3458 | 100 | **8.251.183** |
| Snap-It ™ Vial 2 ml amber glass, Wide Opening<br>*Flacons à Snap-It TM de 2 ml en verre brun, large ouverture* | 5182-0546 | 100 | **8.251.184** |
| Green Snap Caps with PTFE/white Rubber<br>*Bouchons vert à enfoncer avec septum en PTFE/caoutchouc blanche* | 5182-3457 | 100 | **8.251.185** |



**8.251.18***



**8.251.19***

**Wide Opening Snap-It & Snap-Caps (12 x 32 mm).** Snap-it Vials can be used with snap caps or aluminium seals closures

***Flacons à col large de 12x32 mm*** *pour fermetures à sertir en aluminium ou à enfoncer*

| Description | Agilent No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| MacroVial 250 _l. Fused Insert Snap-It ™ Vial, Clear Glass *Flacons à Snap-It TM de 250µl en verre clair, large ouverture, avec insert* | - | 100 | **8.251.190** |
| MacroVial 250 _l. Fused Insert Snap-It ™ Vial, amber Glass *Flacons à Snap-It TM de 250µl en verre brun, large ouverture, avec insert* | - | 100 | **8.251.191** |



**Closure snap caps for Snap-It ™ vials**

***Fermetures (bouchons) à enfoncer pour flacons Snap-It ™***

| Description | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|
| Red snap caps with red PTFE/White Silicone/Red PTFE, for aggressive solvents *Bouchons rouge avec septum en PTFE/Siilicon blanc/PTFE rouge, résistant aux solvants* | 100 | **8.251.200** |
| Blue snap caps with blue PTFE/White Silicone Pre-slit, reducing coring, needle damage *Bouchons bleu avec septum en PTFE/Siilicon blanc* | 100 | **8.251.201** |
| Clear snap caps integral molded polypropylene single use economy cap, not resealable *Bouchons clair en polypropylène à usage unique, non-réutilisable* | 100 | **8.251.202** |
| Blue snap caps, virgin PTFE, Highly inert, not resealable, single use *Bouchons en Téflon, trés inerte, à usage unique non-réutilisable* | 100 | **8.251.203** |



**8.251.212**

**Wide Opening Screw Thread Vials,** Screw Caps and Septa for Agillent

***Flacons en verre à col fileté de large ouverture,*** *bouchons à vis et septum pour Agilent*

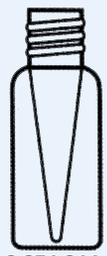
| Description | Agilent No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Vials, 2 ml clear glass, wide opening with screw top *Flacons à visser, col fileté large ouverture, en verre clair* | 5182-0714 | 100 | **8.251.210** |
| Green screw caps with Ivory PTFE/Red Rubber *Bouchons à visser avec septum en PTFE/caoutchouc rouge* | 5182-0718 | 100 | **8.251.220** |
| Vials, 2 ml clear glass, wide opening with screw top, write-on patch and with graduation 0.5, 1.0 and 1.5 ml *Flacons à visser de 2 ml à col fileté large ouverture, en verre clair avec surface à écrire et graduations 0.5, 1.0 et 1.5 ml* | 5182-0715 | 100 | **8.251.211** |
| Blue, screw caps with Blue PTFE/Silicone, Pre-slit *Bouchons à visser, bleu, avec septum en PTFE/silicone, pré-fente* | 5183-2076 | 100 | **8.251.221** |
| Vials, 2 ml amber glass, wide opening with screw top, write-on patch and with graduation 0.5, 1.0 and 1.5 ml *Flacons à visser de 2 ml à col fileté large ouverture, en verre brun avec surface à écrire et graduations 0.5, 1.0 et 1.5 ml* | 5182-0715 | 100 | **8.251.212** |
| Green, screw caps with Red PTFE/White Silicone/Red PTFE *Bouchons à visser, vert, avec septum en PTFE/silicone blanc/PTFE-rouge* | 5183-2076 | 100 | **8.251.222** |

**Wide Opening Screw Thread Vials,** Screw Caps and Septa for Agillent

***Flacons en verre à col fileté de large ouverture,*** *bouchons à vis et septum pour Agilent*

| Description | Agilent No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| High recovery vials, 1.5 ml, clear glass with screw top<br>*Flacons à visser de 1.5 ml à col fileté large ouverture, en verre clair* | 5183-2030 | 100 | **8.251.213** |
| Red screw caps with red PTFE/white silicone<br>*Bouchons à visser, rouge, avec septum en PTFE/silicone blanc* | 5182-0722 | 100 | **8.251.223** |
| Macro vials, fused Insert, 350 µl, clear glass, with screw top<br>*Flacons à insert de 350µl à col fileté large ouverture, en verre clair* | 5183-2076 | 100 | **8.251.214** |
| Blue, screw caps with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser, bleu, avec septum en PTFE/silicone, pré-fente* | 5183-2076 | 100 | **8.251.221** |
| Micro-V™, Vial, Clear, 1.5 ml, clear glass, screw Top with 150 µl reservoir<br>*Flacons micro VTM à visser de 1.5 ml col fileté, en verre clair et réservoir de 150µl* | 5184-3550 | 100 | **8.251.215** |
| Blue, screw caps with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser, bleu, avec septum en PTFE/silicone, pré-fente* | 5183-2076 | 100 | **8.251.221** |





**8.251.214**

**Inserts for vials of 2 ml,** for crimp-caps and screw-caps, for Agilent

***Inserts à volume limité pour flacons de 2 ml,*** *à capsules à sertir et à bouchons à visser, pour Agilent*

| Description | Agilent No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| 300 µl Polyspring Glass Conical Inserts, with graduation and polyspring support<br>*Inserts coniques en verre de 300µl, à graduations et support polyspring* | 5181-1270 | 100 | **8.251.230** |
| 250 µl Flat Bottom Glass Micro Inserts<br>*Micro-inserts en verre à fond plat de 250µl* | 5181-3377 | 500 | **8.251.231** |
| 300 µl Polyspring Conical Inserts, made of Polypropylene<br>*Inserts coniques Polyspring de 300µl, en polypropylène* | - | 100 | **8.251.231** |



**8.251.23***

**Kit for Micro Insert Crimp Cap and Screw-cap**

***Kit pour les micro-Inserts à sertir ou à filetage***

| Description | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|
| Kit for Micro Insert crimp cap<br>*Kit pour les micro-Inserts à sertir* | 1 | **8.251.240** |
| Kit for Micro Insert screw-cap<br>*Kit pour les micro-Inserts à visser* | 1 | **8.251.241** |

## Vials, Closures and Inserts for WATERS ALLIANCE Autosamplers

*Flacons à sertir, fermetures et inserts pour Auto-injecteurs WATERS ALLIANCE*

- **Wide opening vial is easier to fill**
- **Dimensions 12x32 mm and 6 mm neck opening, for 9 mm caps**
- **Superior quality borosilicate clear glass or amber glass**

- *Col large ouverture facile à remplir*
- *Dimensions 12 x 32 mm et ouverture du col 6 mm, pour bouchons de 9 mm*
- *Verre clair borosilicaté de haute qualité ou en verre brun*





| Description | Waters No. | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Vials 2 ml clear glass, wide opening with screw Top<br>*Flacons à visser de 2ml en verre clair et col fileté* | 186000273 | 100 | **8.251.250** |
| Blue, screw caps with PTFE/white silicone , Pre-slit<br>*Bouchons à visser, bleu, avec septum en PTFE/silicone blanc* | 058874+ T058875 | 100 | **8.251.224** |
| Vials 2 ml clear glass, wide opening with screw top write-on patch with graduations 0.5, 1.0 and 1.5 ml<br>*Flacons à visser de 2 ml à col fileté large ouverture, en verre clair avec surface à écrire et graduations 0.5, 1.0 et 1.5 ml* | 186000845 | 100 | **8.251.251** |
| Blue, screw caps with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser, bleu, avec septum en PTFE/silicone, pré-fente* | 186000305 | 100 | **8.251.221** |
| Micro-vials, Fused Insert 350µl, Amber glass, screw top<br>*Flacons à visser avec insert de 350µl en verre brun et col fileté* | 186001130 | 100 | **8.251.252** |
| Micro-vials, Fused Insert 350µl, clear glass, screw top<br>*Flacons à visser avec insert de 350µl en verre clair et col fileté* | 186001128 | 100 | **8.251.253** |
| Blue, screw caps with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser, bleu, avec septum en PTFE/silicone, pré-fente* | 186000305 | 100 | **8.251.221** |
| Blue, screw caps with PTFE/white silicone , Pre-slit<br>*Bouchons à visser, bleu, avec septum en PTFE/silicone blanc* | 058874+ T058875 | 100 | **8.251.224** |
| Micro-V Vials, clear glass, 1.5 ml, Screw top<br>*Micro-flacons à visser de 1.5 ml en verre clair et col fileté* | - | 100 | **8.251.254** |
| Blue, screw caps with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser, bleu, avec septum en PTFE/silicone, pré-fente* | 186000305 | 100 | **8.251.221** |
| 300 µl Conical Glass Insert<br>*Insert conique en verre de 300 µl* | 094170 | 500 | **8.251.255** |
| 300 µl Conical Insert, Polypropylene with graduation and polyspring support<br>*Insert conique en verre de 300 µl en polypropylène avec graduation et support polyspring* | - | 100 | **8.251.256** |
| 350 µl Conical Glass Insert Pulled point<br>*Insert conique en verre de 350 µl avec pointe* | 072704 | 100 | **8.251.257** |
| 400 µl Glass Flat Bottom Insert<br>*Insert conique en verre de 400 µl avec fond plat* | 072704 | 100 | **8.251.258** |

**Wide opening screw thread vials,**
2 mL (12 x 32 mm) and 6 mm neck opening, 10 mm Cap

***Flacons à visser à col large*** *(12 x 32 mm) de 2 ml et ouverture de col 6 mm, pour bouchon de 10 mm*

| Description | Waters No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Vials, 2 ml, clear glass, wide opening, with screw Top<br>*Flacons à visser de 2 ml (10-425), 12 x 32mm, en verre clair et col fileté* | 063300 | 100 | **8.251.260** |
| Black screw Cap with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser noir, avec septum bleu en PTFE/Silicone, Pré-slit* | - | 100 | **8.251.265** |
| Vials, 2 ml, clear glass, wide opening, with screw Toptop with top write-on patch and graduations 0.5, 1.0 and 1.5 ml<br>*Flacons à visser en verre clair de 2 ml, à col large fileté, surface à écrire et graduations 0.5, 1.0 et 1.5 ml* | 18600845 | 100 | **8.251.261** |
| Black screw Cap with Red PTFE/ White Silicone<br>*Bouchons à visser noir, avec septum rouge en PTFE/Silicone blanc* | 058875+ 058874 | 100 | **8.251.266** |
| Vials, 2 ml, amber glass, wide opening, with screw Toptop with top write-on patch and graduations 0.5, 1.0 and 1.5 ml<br>*Flacons à visser en verre brun de 2 ml, à col large fileté, surface à écrire et graduations 0.5, 1.0 et 1.5 ml* | 18600845 | 100 | **8.251.262** |
| Black screw Cap with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser noir, avec septum bleu en PTFE/Silicone, Pré-slit* | - | 100 | **8.251.265** |





**8.251.262**



**Autosampler Vials, wide opening screw -thread 4 mL (15 x 45 mm) for Waters 48-Position Carrusel WISP**

***Flacons à visser*** *pour passeur automatique Waters à 48-positions WISP, de 4 ml (15 x4 5 mm)*

| Description | Waters No. | Standard pack *Conditionnement* pcs. | Order No. *N° de code* |
|---|---|---|---|
| Vials, 4 ml, clear glass, Screw top with write-on patch and graduations 1.0, 2.0, 3.0 and 4.0 ml<br>*Flacons à visser en verre clair de 4 ml, à col large fileté, surface à écrire et graduations 1.0, 3.0 et 4.0 ml* | 186000840 | 100 | **8.251.263** |
| Vials, 4 ml Amber glass, screw Top write-on patch<br>*Flacons à visser en verre brun de 4 ml, à col large fileté, surface à écrire* | 186001135 | 100 | **8.251.264** |
| Black screw- cap with red PTFE/Silicone<br>*Bouchons à visser noir, avec septum rouge en PTFE/Silicone* | 186000841 | 100 | **8.251.267** |
| Black screw Cap with Blue PTFE/Silicone, Pre-slit<br>*Bouchons à visser noir, avec septum bleu en PTFE/Silicone, Pré-slit* | - | 100 | **8.251.265** |





**8.251.27***

**Shell Vials, SepCap,**
8 x 40 mm for Waters-96 Position Tray

***Flacons Shell, à capuchon à enfoncer,***
*8 x 40 mm pour plateau à 96 places de Waters*

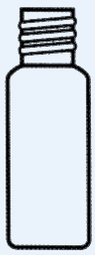
| Description | Waters No. | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| Shell vials 1 ml clear glass with SepCap<br>*Flacons en verre clair de 1 ml, avec capuchon à enfoncer* | 025054 | 200 | **8.251.270** |
| Shell vials 1 ml amber glass with SepCap<br>*Flacons en verre brun de 1 ml, avec capuchon à enfoncer* | 025053 | 200 | **8.251.271** |
| Shell vials 1 ml polypropylene with SepCap<br>*Flacons en polypropylene de 1 ml, avec capuchon à enfoncer* | - | 250 | **8.251.272** |

## Autosampler Vials, Closures and Inserts for SHIMADZU (8-425)

*Flacons, fermetures et inserts pour auto-injecteur SHIMADZU (8-425)*

- **Standard opening 12 x 32 mm screw thread vials, caps and septa**
- **Superior quality borosilicate clear glass or amber glass**
- **Uniformity flat bottom for security inserts**
- **Vials feature write-on patch with graduations at 0.5, 1.0 and 1.5 ml**
- **Deactivated vials are Silanized or Kimshield™ pretreated**

- ***Flacons à visser standard de 12 x 32 mm, avec bouchons et septum***
- ***Verre clair borosilicaté ou en verre brun de haute qualité***
- ***Fond plat pour inserts***
- ***Surface à écrire avec graduations à 0.5, 1.0 et 1.5 ml***



**8.251.28***

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 2 ml Vials clear glass, filling volume 1.8 ml<br>*Flacons en verre clair de 2 ml, volume de remplissage 1.8 ml* | 100 | **8.251.280** |
| 2 ml Vials clear glass, filling volume 1.8 ml, with write-on patch<br>*Flacons en verre clair de 2 ml, volume de remplissage 1.8 ml, surface à écrire* | 100 | **8.251.281** |
| 2 ml Vials amber glass, filling volume 1.8 ml<br>*Flacons en verre brun de 2 ml, volume de remplissage 1.8 ml* | 100 | **8.251.282** |
| 2 ml Vials amber glass, filling volume 1.8 ml, with write-on patch<br>*Flacons en verre brun de 2 ml, volume de remplissage 1.8 ml, surface à écrire* | 100 | **8.251.283** |
| 150 µl MicroVial™ Clear solid glass<br>*Micro-vials de 150µl, en verre clair* | 100 | **8.251.284** |

**Pre-assembled Caps with Septa** for 8-425
Standard Opening Vials for Shimadzu

***Bouchons à visser pré-assemblés avec septum***
*pour flacons standard 8-425 Shimadzu*



| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Black polypropylene caps, Red PTFE/White silicone, open top cap with flange<br>*Bouchons à visser en polypropylène noire, dessus à flansch, avec septum rouge en PTFE/silicone blanc* | 100 | **8.251.285** |
| White polypropylene caps, Blue PTFE/White silicone-Pre-slit<br>*Bouchons à visser en polypropylène blanche, dessus à flansch, avec septum bleu en PTFE/silicone blanc pré-slit* | 100 | **8.251.286** |
| Yellow polypropylene cap, Kim-Lok Red PTFE/White silicone<br>*Bouchons à visser en polypropylène jaune, type Kim-lock, avec septum rouge en PTFE/silicone blanc* | 100 | **8.251.287** |

**Wide opening screw thread vials,**
2 mL, 12 x 32 mm for Shimadzu (10-425)

***Flacons à visser col large,***
*2 ml, 12 x 32 mm pour Shimadzu (10-425)*

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 2 ml Vials clear glass, filling volume 1.8 ml<br>*Flacons en verre clair de 2 ml, volume de remplissage 1.8 ml* | 100 | **8.251.290** |
| 2 ml Vials clear glass, filling volume 1.8 ml, with write-on patch<br>*Flacons en verre clair de 2 ml, volume de remplissage 1.8 ml, surface à écrire* | 100 | **8.251.291** |
| 350µl fused inserts<br>*Inserts de 350µl* | 100 | **8.251.292** |



**Screw-Caps**
for 12 x 32 mm vials - Shimadzu

***Bouchons à visser***
*pour flacons de 12 x 32 mm de Shimadzu*

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Polypropylene open top caps, white, Red PTFE/White Silicone<br>*Bouchons en polypropylène, blanc, avec septum rouge en PTFE/silicone* | 100 | **8.251.295** |
| Polypropylene open top caps, black, Red PTFE/White Silicone<br>*Bouchons en polypropylène, noir, avec septum rouge en PTFE/silicone* | 100 | **8.251.296** |



## Target Polyspring™ and MicroSert™ Inserts for vials 12 x 32

*Inserts à volume limité Polyspring™ ou MicroSert™ pour flacons 12 x 32*

- **Eliminates dead volume - with correct autosampler default setting**
- **Damage-free syringe needle hits**
- **Allows complete sample extraction**
- **Shock-absorbing Polyspring or economical MicroSert**
- **Self-aligning, stands straight**

- ***Elliminent les volumes morts***
- ***Permettent un retrait complet de l'échantillon***
- ***Absorbent les chocs à l'aide des ressorts en polyéthylène***
- ***Maintiennent l'insert correctement aligné***
- ***Alignement parfait***

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 250 µl Target polyspring borosilicate glass inserts, conical with precision-formed mandrel interior and attached Polyspring<br>*Inserts à volume limité de 250 µl en verre borosilicaté, forme conique avec ressort en polyéthylèn* | 100 | **8.251.300** |
| 250 µl Silanized Target polyspring borosilidate glass inserts, conical with precission-formed mandrel interior and attached Polyspring<br>*Inserts silanisés à volume limité de 250 µl en verre borosilicaté, forme conique avec ressort en polyéthylène* | 100 | **8.251.301** |
| 250 µl Silanized Target polyspring polypropylene inserts, conical with precission-formed interior and attached Polyspring and graduated volume marks<br>*Inserts à volume limité de 250 µl en polypropylène, forme conique avec ressort en polyéthylène et traits de repère* | 100 | **8.251.302** |
| 400 µl Target borosilidate glass MicroSerts, flat Bottom<br>*Inserts à volume limité de 400µl en verre borosilicaté MicroSerts, à fond plat* | 100 | **8.251.304** |



**8.251.3****

## Pre-Assembled Kits - Target Screw Thread Vials (10-425) - 12 x 32 mm in Storage Rack

*Kit pré-assemblés - Flacons à visser (10-425) - 12 x 32 mm dans coffret de stockage*

- **Assembled kits include 100 vials with pre-attached caps and septa for easy storage**
- **Packed in convenient vial trays with clear covers**

**Target Screw Thread Vials with coloured Caps and Septa kits**
Standard pack of 100 pcs.

- *Kits assemblés composés de 100 flacons à visser avec bouchon et septum*
- *Livrés dans un portoir avec couvercle transparent et supperposable pour le stockage*

***Kits de flacons à visser avec fermeture colorée et septum***
*Conditionnement: 100 pcs.*

| Description | Cap colours<br>*Bouchons* | Septa<br>*Septum* | Order No.<br>*N° de code* |
|---|---|---|---|
| 8.251.290, Clear glass<br>*En verre clair* | Light Blue<br>*Bleu ciel* | 8.251.420 PTFE/Silicone | **8.251.310** |
| 8.251.293, Amber glass<br>*En verre brun* | Light Blue<br>*Bleu ciel* | 8.251.420 PTFE/Silicone | **8.251.311** |
| 8.251.262, Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.266 PTFE | **8.251.312** |
| 8.251.290, Clear glass<br>*En verre clair* | Light Blue<br>*Bleu ciel* | 8.251.421 PTFE/Silicone | **8.251.313** |
| 8.251.293, Amber glass<br>*En verre brun* | Light Blue<br>*Bleu ciel* | 8.251.421 PTFE/Silicone | **8.251.314** |
| 8.251.251, clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre clair avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.420 PTFE/Silicone | **8.251.315** |
| 8.251.290, Clear glass<br>*En verre clair* | Light Blue<br>*Bleu ciel* | 8.251.410 PTFE/Silicone/PTFE | **8.251.316** |
| 8.251.293, Amber glass<br>*En verre brun* | Light Blue<br>*Bleu ciel* | 8.251.410 PTFE/Silicone/PTFE | **8.251.317** |
| 8.251.262, Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.410 PTFE/Silicone/PTFE | **8.251.318** |
| 8.251.251, clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre clair avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.410 PTFE/Silicone/PTFE | **8.251.319** |
| 8.251.400, Silanized clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre clair silanisé avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.410 PTFE/Silicone/PTFE | **8.251.320** |
| 8.251.400, Silanized clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre clair silanisé avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.411 PTFE/Silicone-Pre-Slit | **8.251.321** |
| 8.251.290, Clear glass<br>*En verre clair* | Light Blue<br>*Bleu ciel* | 8.251.412 Solid PTFE | **8.251.322** |
| 8.251.293, Amber glass<br>*En verre brun* | Light Blue<br>*Bleu ciel* | 8.251.412 Solid PTFE | **8.251.323** |
| 8.251.251, clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre clair avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.412 Solid PTFE | **8.251.324** |
| 8.251.293, Amber glass<br>*En verre brun* | Light Blue<br>*Bleu ciel* | 8.251.412 Solid PTFE | **8.251.325** |
| 8.251.251, clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre clair avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.413 PTFE/Silicone-Start-Slit | **8.251.326** |
| 8.251.262, Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Light Blue<br>*Bleu ciel* | 8.251.413 PTFE/Silicone-Start-Slit | **8.251.327** |
| 8.251.290, Clear glass, for Shimadzu<br>*En verre clair, compatibles avec Shimadzu* | White<br>*Blanc* | 8.251.295 PTFE/Silicone | **8.251.328** |
| 8.251.293, Amber glass, for Shimadzu<br>*En verre brun, compatibles avec Shimadzu* | White<br>*Blanc* | 8.251.295 PTFE/Silicone | **8.251.329** |

**Target Screw Thread Vials with coloured Caps and Septa kits**
Standard pack of 100 pcs.

***Kits de flacons à visser avec fermeture colorée et septum***
*Conditionnement: 100 pcs.*

| Description | Cap colours<br>*Bouchons* | Septa<br>*Septum* | Order No.<br>*N° de code* |
|---|---|---|---|
| 8.251.251, clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml, for Shimadzu<br>*En verre clair avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml, compatibles avec Shimadzu* | White<br>*Blanc* | 8.251.295 PTFE/Silicone | **8.251.330** |
| 8.251.262, Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml, for Shimadzu<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml, compatibles avec Shimadzu* | White<br>*Blanc* | 8.251.295 PTFE/Silicone | **8.251.331** |
| 8.251.290, Clear glass, for Shimadzu<br>*En verre clair, compatibles avec Shimadzu* | Black<br>*Noir* | 8.251.296 PTFE/Silicone | **8.251.332** |
| 8.251.293, Amber glass, for Shimadzu<br>*En verre brun, compatibles avec Shimadzu* | Black<br>*Noir* | 8.251.296 PTFE/Silicone | **8.251.333** |
| 8.251.251, clear glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml, for Shimadzu<br>*En verre clair avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml, compatibles avec Shimadzu* | Black<br>*Noir* | 8.251.296 PTFE/Silicone | **8.251.334** |
| 8.251.262, Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml, for Shimadzu<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml, compatibles avec Shimadzu* | Black<br>*Noir* | 8.251.296 PTFE/Silicone | **8.251.335** |



**8.251.300 - 8.251.325**



**8.251.340 - 8.251.343**

## Pré-assembled 4 ml Screw Thread Vial Kits

## *Kits de flacons à visser pré-assemblés de 4 ml*

- **Assembled kits include 100 vials with pre-attached caps and septa**
- **Packaged in convinient vial trays with clear covers or in polybags**
- **Vial trays are stackable for easy storage and feature alphanumeric indexing**

- ***Kit de 100 flacons avec bouchons et septum pré-assemblés***
- ***Livré sur supports avec couvercle transparent ou dans sachets***
- ***Supports superposables pour stockage et index alphanumérique***

| Description | Cap colours<br>*Bouchons* | Septa<br>*Septum* | Order No.<br>*N° de code* |
|---|---|---|---|
| 8.251.440, Clear glass<br>*En verre clair* | Black<br>*Noir* | 8.251.267 Red PTFE/White Silicone | **8.251.340** |
| 8.251.441, Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Black<br>*Noir* | 8.251.267 Red PTFE/White Silicone | **8.251.341** |
| 8.251.440, Clear glass<br>*En verre clair* | Black<br>*Noir* | 8.251.430 White Virgin PTFE | **8.251.342** |
| 8.251.441, Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | Black<br>*Noir* | 8.251.430 White Virgin PTFE | **8.251.343** |

## Unassembled 4 ml Screw Thread Vial Convenience Kits

*Kits de flacons à visser de 4 ml, en vrac*

- **Includet 100 vials and 100 caps with septa**
- **Caps with pre-inserted septa are not attached to vials - packed in polybags**

- ***Kit de 100 flacons avec bouchon et septum***
- ***Livres en vrac dans sachets***



**8.251.344 - 8.251.345**

| Description | Caps & Septa<br>*Bouchon & Septum* | Order No.<br>*N° de code* |
|---|---|---|
| Clear glass<br>*En verre clair* | 8.251.267 Black cap with Red PTFE/White Silicone<br>*Bouchon noir avec rouge PTFE/blanc Silicone* | **8.251.344** |
| Amber glass, write-on patch with graduations at 0.5, 1.0 and 1.5 ml<br>*En verre brun avec surface à écrire et graduations à 0.5, 1.0 et 1.5 ml* | 8.251.267 Black cap with Red PTFE/White Silicone<br>*Bouchon noir avec rouge PTFE/blanc Silicone* | **8.251.345** |

## Sample Storage Vials Kits & EPA Vials

*Kits de flacons pour stockage d'échantillons et flacons EPA*

**Non-Assembled Kits** supplied in box including sample vials with PTFE-Lined storage caps, each box contains shrink-wrapped vials and PTFE-lined caps in plastic bags

***Kit de flacons** pour stockaged'échantillons livrés en vrac en sachets, dans une boite et composé de bouchons avec liners en téflon*



**8.251.350 - 8.251.365**

| Glass type<br>*Type de verre* | Capacity<br>*Capacité*<br>ml | Min. capacity<br>*Capacité min.*<br>ml | use cap size<br>*Taille bouchon* | Vial size<br>*Dimensions du flacon*<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| Clear / *clair* | 2 | 0.5 | 8-425 | 12 x 32 | 100 | **8.251.350** |
| Clear / *clair* | 4 | 1.0 | 13-425 | 15 x 45 | 100 | **8.251.351** |
| Clear / *clair* | 8 | 2.0 | 15-425 | 17 x 60 | 200 | **8.251.352** |
| Clear / *clair* | 12 | 3.0 | 15-425 | 19 x 65 | 200 | **8.251.353** |
| Clear / *clair* | 16 | 4.0 | 18-400 | 21 x 70 | 200 | **8.251.354** |
| Clear / *clair* | 20 | 5.0 | 18-400 | 21 x 70 | 100 | **8.251.355** |
| Clear / *clair* | 22 | 6.0 | 20-400 | 23 x 85 | 200 | **8.251.356** |
| Clear / *clair* | 40 | 10 | 24-400 | 28 x 95 | 100 | **8.251.357** |
| Amber / *brun* | 2 | 0.5 | 8-425 | 12 x 32 | 100 | **8.251.358** |
| Amber / *brun* | 4 | 1.0 | 13-425 | 15 x 45 | 100 | **8.251.359** |
| Amber / *brun* | 8 | 2.0 | 15-425 | 17 x 60 | 200 | **8.251.360** |
| Amber / *brun* | 12 | 3.0 | 15-425 | 19 x 65 | 200 | **8.251.361** |
| Amber / *brun* | 16 | 4.0 | 18-400 | 21 x 70 | 200 | **8.251.362** |
| Amber / *brun* | 20 | 5.0 | 18-400 | 21 x 70 | 100 | **8.251.363** |
| Amber / *brun* | 22 | 6.0 | 20-400 | 23 x 85 | 200 | **8.251.364** |
| Amber / *brun* | 40 | 10 | 24-400 | 28 x 95 | 100 | **8.251.365** |

**Non-Assembled Kits** supplied in box including sample vials with caps, each box contains shrink-wrapped vials and caps with septa inplastic bags

***Kit de flacons*** *pour stockaged'échantillons livrés en vrac en sachets, dans une boite et composé de bouchons et septum*

| Glass type<br>*Type de verre* | Capacity<br>*Capacité*<br>ml | Min. capacity<br>*Capacité min.*<br>ml | use cap size<br>*Taille bouchon* | Vial size<br>*Dimensions du flacon*<br>mm | Packing<br>*Emballage*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| Clear / *clair* | 2 | 0.5 | 8-425 | 12 x 32 | 100 | **8.251.370** |
| Clear / *clair* | 4 | 1.0 | 13-425 | 15 x 45 | 100 | **8.251.371** |
| Clear / *clair* | 8 | 2.0 | 15-425 | 17 x 60 | 200 | **8.251.372** |
| Clear / *clair* | 12 | 3.0 | 15-425 | 19 x 65 | 200 | **8.251.373** |
| Clear / *clair* | 16 | 4.0 | 18-400 | 21 x 70 | 200 | **8.251.374** |
| Clear / *clair* | 20 | 5.0 | 18-400 | 21 x 70 | 100 | **8.251.375** |
| Clear / *clair* | 22 | 6.0 | 20-400 | 23 x 85 | 200 | **8.251.376** |
| Clear / *clair* | 40 | 10 | 24-400 | 28 x 95 | 100 | **8.251.377** |
| Amber / *brun* | 2 | 0.5 | 8-425 | 12 x 32 | 100 | **8.251.378** |
| Amber / *brun* | 4 | 1.0 | 13-425 | 15 x 45 | 100 | **8.251.379** |
| Amber / *brun* | 8 | 2.0 | 15-425 | 17 x 60 | 200 | **8.251.380** |
| Amber / *brun* | 12 | 3.0 | 15-425 | 19 x 65 | 200 | **8.251.381** |
| Amber / *brun* | 16 | 4.0 | 18-400 | 21 x 70 | 200 | **8.251.382** |
| Amber / *brun* | 20 | 5.0 | 18-400 | 21 x 70 | 100 | **8.251.383** |
| Amber / *brun* | 22 | 6.0 | 20-400 | 23 x 85 | 200 | **8.251.384** |
| Amber / *brun* | 40 | 10 | 24-400 | 28 x 95 | 100 | **8.251.385** |



**8.251.370 - 8.251.385**

## EPA Vials Kit with Caps and Septa, for volatile organic analyses

*Kit de flacons EPA avec bouchons et septums, pour les analyses organiques volatiles*

- **Each carton contains 100 shrink-wrapped EPA vials and separately packed caps**

- ***Chaque carton contient 100 flacons EPA et les bouchons sépar***

| Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Clear glass 40 ml vials, with PTFE/Silicone Septa and Caps<br>*Flacons en verre clair de 40 ml, avec bouchons et septum en PTFE/Silicone* | 100 | **8.251.390** |
| Amber glass 40 ml vials, with PTFE/Silicone Septa and Caps<br>*Flacons en verre brun de 40 ml, avec bouchons et septum en PTFE/Silicon* | 100 | **8.251.391** |
| Clear glass 20 ml vials, with PTFE/Silicone Septa and Caps<br>*Flacons en verre clair de 20 ml, avec bouchons et septum en PTFE/Silicone* | 100 | **8.251.392** |
| Amber glass 20 ml vials, with PTFE/Silicone Septa and Caps<br>*Flacons en verre brun de 20 ml, avec bouchons et septum en PTFE/Silicon* | 100 | **8.251.393** |



**8.251.390 - 8.251.393**

## Guard Columns for HPLC
## *Précolonnes pour HPLC*

**Guard Columns for HPLC Columns,**
Interposed between the injector and the column these precolumns lengthen the life of the column and improve the reproducibility of their results. Packed with the most modern HPLC packings and Novabond proprietary packing procedures. Economic and easily replaced. For general use in any HPLC system

***Précolonnes pour colonnes HPLC,*** *montées entre l'injecteur et la colonne, ces précolonnes rallongent la durée de vie des colonnes analytiques et améliiorent la reproductibilité des résultats. Pour utilisation universelle sur tout type d'HPLC*



| **Description**<br>***Description*** | **Standard pack**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| Holder<br>*Portoir pour précolonnes* | 1 | **8.253.000** |
| Holder + 2 cartridges ODS | 1 | **8.253.010** |
| Holder+ 2 cartridges Si | 1 | **8.253.011** |
| Holder + 2 cartridges C8 | 5 | **8.253.012** |
| Holder+ 2 cartridges NH2 | 5 | **8.253.013** |
| Holder + 2 cartridges SAX | 5 | **8.253.014** |
| Holder+ 2 cartridges P | 5 | **8.253.015** |
| Holder + 2 cartridges C6H5 | 5 | **8.253.016** |
| Holder+ 2 cartridges Carbohydrates | 5 | **8.253.017** |
| Holder+ 2 cartridges Anion | 5 | **8.253.018** |
| Holder + 2 cartridges SCX | 5 | **8.253.019** |
| Holder+ 2 cartridges C2 | 5 | **8.253.020** |
| Holder + 2 cartridges WP-300 C4 | 5 | **8.253.021** |
| Holder+ 2 cartridges WP-300 C8 | 5 | **8.253.022** |
| Holder + 2 cartridges DIOL | 5 | **8.253.023** |
| Holder+ 2 cartridges WP-300 C18 | 5 | **8.253.024** |
| Holder+ 2 cartridges C4 | 5 | **8.253.025** |
| Holder + 2 cartridges ODS | 5 | **8.253.026** |
| | | |
| Cartridge Si | 5 | **8.253.030** |
| Cartridge C8 | 5 | **8.253.031** |
| Cartridge NH2 | 5 | **8.253.032** |
| Cartridge SAX | 5 | **8.253.033** |
| Cartridge CN | 5 | **8.253.034** |
| Cartridge P | 5 | **8.253.035** |
| Cartridge Carbohydrates | 5 | **8.253.036** |
| Cartridge Anion | 5 | **8.253.037** |
| Cartridge SCX | 5 | **8.253.038** |
| Cartridge C2 | 5 | **8.253.039** |
| Cartridge WP300C4 | 5 | **8.253.040** |
| Cartridge WP300C8 | 5 | **8.253.041** |
| Cartridge Diol | 5 | **8.253.042** |
| Cartridge WP300C18 | 5 | **8.253.043** |
| Cartridge C4 | 5 | **8.253.044** |

**Biocompatible Precolumns,**
100% biocompatible. Economical cartridge system with titanium frits. Constructed in PEEK® and packed with de-activated silica

***Précolonnes biocompatibles pour HPLC,*** *système économique avec frittes en titane, fabrication en PEEK et remplies avec de la silice déactivée*

**Guard column cartridges biocompatible,**
2.0 mm inner Ø x 1 cm, 10 µm

***Précolonnes biocompatibles pour HPLC,*** *2,0 mm Ø int. x 1 cm, 10 µm*

| **Description**<br>***Description*** | **Standard pack**<br>***Conditionnement***<br>**pcs.** | **Order No.**<br>***N° de code*** |
|---|---|---|
| Reversed Phase C18 | 3 | **8.253.050** |
| Reversed Phase C18 | 10 | **8.253.051** |
| Absorption Si | 3 | **8.253.052** |
| Absorption Si | 10 | **8.253.053** |
| Amino Phase NH2 | 3 | **8.253.054** |
| Amino Phase NH2 | 10 | **8.253.055** |
| Cyano Phase CN | 3 | **8.253.056** |
| Cyano Phase CN | 10 | **8.253.057** |

**Guard column cartridges biocompatible,** 4.3 mm inner Ø x 1 cm, 10 µm

***Précolonnes biocompatibles pour HPLC,*** *4.3 mm Ø int. x 1 cm, 10 µm*

| Description<br>*Description* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| Reversed Phase C18 | 3 | **8.253.060** |
| Reversed Phase C18 | 10 | **8.253.061** |
| Absorption Si | 3 | **8.253.062** |
| Absorption Si | 10 | **8.253.063** |
| Amino Phase NH2 | 3 | **8.253.064** |
| Amino Phase NH2 | 10 | **8.253.065** |
| Cyano Phase CN | 3 | **8.253.066** |
| Cyano Phase CN | 10 | **8.253.067** |

**Analytical columns 0.4 cm inner Ø, TRACER EXCEL 120, 5 µm**

***Colonnes analytiques Tracer Excel 120 de Ø int. 0.4 cm, 5 µm***

| Type<br>*Type* | | Length<br>*Longueur* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 cm | 10 cm | 15 cm | 20 cm | 25 cm |
| ODS-A | 5 | **8.253.100** | **8.253.110** | **8.253.120** | **8.253.130** | **8.253.140** |
| ODS-B | 5 | **8.253.101** | **8.253.111** | **8.253.121** | **8.253.131** | **8.253.141** |
| Si | 5 | **8.253.102** | **8.253.112** | **8.253.122** | **8.253.132** | **8.253.142** |
| C8 | 5 | **8.253.103** | **8.253.113** | **8.253.123** | **8.253.133** | **8.253.143** |
| C4 | 5 | **8.253.104** | **8.253.114** | **8.253.124** | **8.253.134** | **8.253.144** |
| C1 | 5 | **8.253.105** | **8.253.115** | **8.253.125** | **8.253.135** | **8.253.145** |
| APS | 5 | **8.253.106** | **8.253.116** | **8.253.126** | **8.253.136** | **8.253.146** |
| CN | 5 | **8.253.107** | **8.253.117** | **8.253.127** | **8.253.137** | **8.253.147** |
| Ph | 5 | **8.253.108** | **8.253.118** | **8.253.128** | **8.253.138** | **8.253.148** |

**Analytical columns 0.4 cm inner Ø, TRACER EXCEL 120, 3 µm**

***Colonnes analytiques Tracer Excel 120 de Ø int. 0.4 cm, 3 µm***

| Type<br>*Type* | | Length<br>*Longueur* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 cm | 10 cm | 15 cm | 20 cm | 25 cm |
| ODS-A | 3 | **8.253.150** | **8.253.160** | **8.253.170** | **8.253.180** | **8.253.190** |
| ODS-B | 3 | **8.253.151** | **8.253.161** | **8.253.171** | **8.253.181** | **8.253.191** |
| Si | 3 | **8.253.152** | **8.253.162** | **8.253.172** | **8.253.182** | **8.253.192** |
| C8 | 3 | **8.253.153** | **8.253.163** | **8.253.173** | **8.253.183** | **8.253.193** |
| C4 | 3 | **8.253.154** | **8.253.164** | **8.253.174** | **8.253.184** | **8.253.194** |
| C1 | 3 | **8.253.155** | **8.253.165** | **8.253.175** | **8.253.185** | **8.253.195** |
| APS | 3 | **8.253.156** | **8.253.166** | **8.253.176** | **8.253.186** | **8.253.196** |
| CN | 3 | **8.253.157** | **8.253.167** | **8.253.177** | **8.253.187** | **8.253.197** |
| Ph | 3 | **8.253.158** | **8.253.168** | **8.253.178** | **8.253.188** | **8.253.198** |

**Analytical columns 0.46 cm inner Ø, TRACER EXCEL 120, 5 µm**

***Colonnes analytiques Tracer Excel 120 de Ø int. 0.46 cm, 5 µm***

| Type<br>*Type* | | Length<br>*Longueur* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 cm | 10 cm | 15 cm | 20 cm | 25 cm |
| ODS-A | 5 | **8.253.200** | **8.253.210** | **8.253.220** | **8.253.230** | **8.253.240** |
| ODS-B | 5 | **8.253.201** | **8.253.211** | **8.253.221** | **8.253.231** | **8.253.241** |
| Si | 5 | **8.253.202** | **8.253.212** | **8.253.222** | **8.253.232** | **8.253.242** |
| C8 | 5 | **8.253.203** | **8.253.213** | **8.253.223** | **8.253.233** | **8.253.243** |
| C4 | 5 | **8.253.204** | **8.253.214** | **8.253.224** | **8.253.234** | **8.253.244** |
| C1 | 5 | **8.253.205** | **8.253.215** | **8.253.225** | **8.253.235** | **8.253.245** |
| APS | 5 | **8.253.206** | **8.253.216** | **8.253.226** | **8.253.236** | **8.253.246** |
| CN | 5 | **8.253.207** | **8.253.217** | **8.253.227** | **8.253.237** | **8.253.247** |
| Ph | 5 | **8.253.208** | **8.253.218** | **8.253.228** | **8.253.238** | **8.253.248** |





## Analytical columns KROMASIL 100

*Colonnes analytiques KROMASIL 100*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 x 0.46 cm | 4 x 0.4 cm | 10 x 0.46 cm | 10 x 0.4 cm | 15 x 0.46 cm |
| Si | 5 | 8.253.300 | 8.253.310 | 8.253.320 | 8.253.330 | 8.253.340 |
| C18 | 5 | 8.253.301 | 8.253.311 | 8.253.321 | 8.253.331 | 8.253.341 |
| C8 | 5 | 8.253.302 | 8.253.312 | 8.253.322 | 8.253.332 | 8.253.342 |
| C4 | 5 | 8.253.303 | 8.253.313 | 8.253.323 | 8.253.333 | 8.253.343 |
| NH2 | 5 | 8.253.304 | 8.253.314 | 8.253.324 | 8.253.334 | 8.253.344 |

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 15 x 0.4 | 20 x 0.46 cm | 20 x 0.4 cm | 25 x 0.46 cm | 25 x 0.4 cm |
| Si | 5 | 8.253.350 | 8.253.360 | 8.253.370 | 8.253.380 | 8.253.390 |
| C18 | 5 | 8.253.351 | 8.253.361 | 8.253.371 | 8.253.381 | 8.253.391 |
| C8 | 5 | 8.253.352 | 8.253.362 | 8.253.372 | 8.253.382 | 8.253.392 |
| C4 | 5 | 8.253.353 | 8.253.363 | 8.253.373 | 8.253.383 | 8.253.393 |
| NH2 | 5 | 8.253.354 | 8.253.364 | 8.253.374 | 8.253.384 | 8.253.394 |

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 x 0.46 cm | 4 x 0.4 cm | 10 x 0.46 cm | 10 x 0.4 cm | 15 x 0.46 cm |
| Si | 10 | 8.253.400 | 8.253.410 | 8.253.420 | 8.253.430 | 8.253.440 |
| C18 | 10 | 8.253.401 | 8.253.411 | 8.253.421 | 8.253.431 | 8.253.441 |
| C8 | 10 | 8.253.402 | 8.253.412 | 8.253.422 | 8.253.432 | 8.253.442 |
| C4 | 10 | 8.253.403 | 8.253.413 | 8.253.423 | 8.253.433 | 8.253.443 |
| NH2 | 10 | 8.253.404 | 8.253.414 | 8.253.424 | 8.253.434 | 8.253.444 |

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 15 x 0.4 | 20 x 0.46 cm | 20 x 0.4 cm | 25 x 0.46 cm | 25 x 0.4 cm |
| Si | 10 | 8.253.450 | 8.253.460 | 8.253.470 | 8.253.480 | 8.253.490 |
| C18 | 10 | 8.253.451 | 8.253.461 | 8.253.471 | 8.253.481 | 8.253.491 |
| C8 | 10 | 8.253.452 | 8.253.462 | 8.253.472 | 8.253.482 | 8.253.492 |
| C4 | 10 | 8.253.453 | 8.253.463 | 8.253.473 | 8.253.483 | 8.253.493 |
| NH2 | 10 | 8.253.454 | 8.253.464 | 8.253.474 | 8.253.484 | 8.253.494 |



## Ultrarapid columns KROMASIL 100

*Colonnes analytiques ultrarapide KROMASIL 100*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 x 0.46 cm | 4 x 0.4 cm | 10 x 0.46 cm | 10 x 0.4 cm | 15 x 0.46 cm |
| Si | 3.5 | 8.253.500 | 8.253.510 | 8.253.520 | 8.253.530 | 8.253.540 |
| C18 | 3.5 | 8.253.501 | 8.253.511 | 8.253.521 | 8.253.531 | 8.253.541 |
| C8 | 3.5 | 8.253.502 | 8.253.512 | 8.253.522 | 8.253.532 | 8.253.542 |
| NH2 | 3.5 | 8.253.503 | 8.253.513 | 8.253.523 | 8.253.53 | 8.253.543 |
| C4 | 3.5 | 8.253.504 | 8.253.514 | 8.253.524 | 8.253.534 | 8.253.544 |

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 15 x 0.4 | 20 x 0.46 cm | 20 x 0.4 cm | 25 x 0.46 cm | 25 x 0.4 cm |
| Si | 3.5 | 8.253.550 | 8.253.560 | 8.253.570 | 8.253.580 | 8.253.590 |
| C18 | 3.5 | 8.253.551 | 8.253.561 | 8.253.571 | 8.253.581 | 8.253.591 |
| C8 | 3.5 | 8.253.552 | 8.253.562 | 8.253.572 | 8.253.582 | 8.253.592 |
| NH2 | 3.5 | 8.253.553 | 8.253.563 | 8.253.573 | 8.253.583 | 8.253.593 |
| C4 | 3.5 | 8.253.554 | 8.253.564 | 8.253.574 | 8.253.584 | 8.253.594 |



## Semi-preparative columns KROMASIL 100

*Colonnes analytiques semi-préparatives KROMASIL 100*

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 15 x 0.7 cm | 25 x 0.7 cm | 15 x 1.0 cm | 25 x 1.0 cm |
| Si | 5 | 8.253.600 | 8.253.610 | 8.253.620 | 8.253.630 |
| NH2 | 5 | 8.253.601 | 8.253.611 | 8.253.621 | 8.253.631 |
| C4 | 5 | 8.253.602 | 8.253.612 | 8.253.622 | 8.253.632 |
| C8 | 5 | 8.253.603 | 8.253.613 | 8.253.623 | 8.253.633 |
| C18 | 5 | 8.253.604 | 8.253.614 | 8.253.624 | 8.253.634 |
| | | | | | |
| Si | 10 | 8.253.605 | 8.253.615 | 8.253.625 | 8.253.635 |
| NH2 | 10 | 8.253.606 | 8.253.616 | 8.253.626 | 8.253.636 |
| C4 | 10 | 8.253.607 | 8.253.617 | 8.253.627 | 8.253.637 |
| C8 | 10 | 8.253.608 | 8.253.618 | 8.253.628 | 8.253.638 |
| C18 | 10 | 8.253.609 | 8.253.619 | 8.253.629 | 8.253.639 |

**Microbore columns KROMASIL 100** — *Colonnes analytiques Microbore KROMASIL 100*

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 10 x 0.21 cm | 20 x 0.21 cm | 10 x 0.3 cm | 20 x 0.3 cm |
| Si | 5 | 8.253.650 | 8.253.660 | 8.253.670 | 8.253.680 |
| NH2 | 5 | 8.253.651 | 8.253.661 | 8.253.671 | 8.253.681 |
| C4 | 5 | 8.253.652 | 8.253.662 | 8.253.672 | 8.253.682 |
| C8 | 5 | 8.253.653 | 8.253.663 | 8.253.673 | 8.253.683 |
| C18 | 5 | 8.253.654 | 8.253.664 | 8.253.674 | 8.253.684 |

**Novafix™ Cartridge KROMASIL 100** — *Cartouches Novafix™ KROMASIL 100*



| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| Si | 3.5 | 8.253.700 | 8.253.730 | 8.253.760 |
| C18 | 3.5 | 8.253.701 | 8.253.731 | 8.253.761 |
| C8 | 3.5 | 8.253.702 | 8.253.732 | 8.253.762 |
| C4 | 3.5 | 8.253.703 | 8.253.733 | 8.253.763 |
| NH2 | 3.5 | 8.253.704 | 8.253.734 | 8.253.764 |
| Si | 5 | 8.253.710 | 8.253.740 | 8.253.770 |
| C18 | 5 | 8.253.711 | 8.253.741 | 8.253.771 |
| C8 | 5 | 8.253.712 | 8.253.742 | 8.253.772 |
| C4 | 5 | 8.253.713 | 8.253.743 | 8.253.773 |
| NH2 | 5 | 8.253.714 | 8.253.744 | 8.253.774 |
| Si | 10 | 8.253.720 | 8.253.750 | 8.253.780 |
| C18 | 10 | 8.253.721 | 8.253.751 | 8.253.781 |
| C8 | 10 | 8.253.722 | 8.253.752 | 8.253.782 |
| C4 | 10 | 8.253.723 | 8.253.753 | 8.253.783 |
| NH2 | 10 | 8.253.724 | 8.253.754 | 8.253.784 |

**Microbore columns KROMASIL 100** — *Colonnes analytiques Microbore KROMASIL 100*



| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 5 x 0.21 cm | 10 x 0.21 cm | 15 x 0.21 cm | 20 x 0.21 cm | 25 x 0.21 cm |
| Si | 3.5 | 8.253.800 | 8.253.810 | 8.253.820 | 8.253.830 | 8.253.840 |
| NH2 | 3.5 | 8.253.801 | 8.253.811 | 8.253.821 | 8.253.831 | 8.253.841 |
| C4 | 3.5 | 8.253.802 | 8.253.812 | 8.253.822 | 8.253.832 | 8.253.842 |
| C8 | 3.5 | 8.253.803 | 8.253.813 | 8.253.823 | 8.253.833 | 8.253.843 |
| C18 | 3.5 | 8.253.804 | 8.253.814 | 8.253.824 | 8.253.834 | 8.253.844 |

**Microbore columns KROMASIL 100** — *Colonnes analytiques Microbore KROMASIL 100*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 5 x 0.3 cm | 10 x 0.3 cm | 15 x 0.3 cm | 20 x 0.3 cm | 25 x 0.3 cm |
| Si | 3.5 | 8.253.850 | 8.253.860 | 8.253.870 | 8.253.880 | 8.253.890 |
| C18 | 3.5 | 8.253.851 | 8.253.861 | 8.253.871 | 8.253.881 | 8.253.891 |

Other configurations available on demand

**KROMASIL 100 Chiral HPLC** — *Colonnes Chiral KROMASIL 100*



| Type / *Type* | | Dimension / *Dimension* | |
|---|---|---|---|
| | µm | 5 x 0.21 cm | 10 x 0.21 cm |
| DMB | 5 | 8.253.900 | 8.253.910 |
| TBB | 5 | 8.253.901 | 8.253.911 |

**Accessories /** *Accessoires*

| | | |
|---|---|---|
| DMB + TBB | Developement kit | 8.253.915 |

**Kromasil 100 Chiral Semi-Preperative column** — *Colonnes Chiral semi-préparative KROMASIL 100*

| Type / *Type* | | Dimension / *Dimension* | |
|---|---|---|---|
| | µm | 5 x 0.21 cm | 10 x 0.21 cm |
| DMB | 5 | 8.253.920 | 8.253.930 |
| TBB | 5 | 8.253.921 | 8.253.931 |



## Analytical columns Tracer EXTRASIL

*Colonnes analytiques Tracer Extrasil*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| ODS 1 | 5 | 8.524.000 | 8.524.020 | 8.524.040 | 8.524.060 | 8.524.080 |
| ODS 2 | 5 | 8.524.001 | 8.524.021 | 8.524.041 | 8.524.061 | 8.524.081 |
| Si | 5 | 8.524.002 | 8.524.022 | 8.524.042 | 8.524.062 | 8.524.082 |
| C-1 | 5 | 8.524.003 | 8.524.023 | 8.524.043 | 8.524.063 | 8.524.083 |
| C-6 | 5 | 8.524.004 | 8.524.024 | 8.524.044 | 8.524.064 | 8.524.084 |
| C-8 | 5 | 8.524.005 | 8.524.025 | 8.524.045 | 8.524.065 | 8.524.085 |
| CN | 5 | 8.524.006 | 8.524.026 | 8.524.046 | 8.524.066 | 8.524.086 |
| NH 2 | 5 | 8.524.007 | 8.524.027 | 8.524.047 | 8.524.067 | 8.524.087 |
| Phenyl | 5 | 8.524.008 | 8.524.028 | 8.524.048 | 8.524.068 | 8.524.088 |
| SAX | 5 | 8.524.009 | 8.524.029 | 8.524.049 | 8.524.069 | 8.524.089 |
| SCX | 5 | 8.524.010 | 8.524.030 | 8.524.050 | 8.524.070 | 8.524.090 |
| | | | | | | |
| ODS 1 | 10 | 8.524.011 | 8.524.031 | 8.524.051 | 8.524.071 | 8.524.091 |
| ODS 2 | 10 | 8.524.012 | 8.524.032 | 8.524.052 | 8.524.072 | 8.524.092 |
| Si | 10 | 8.524.013 | 8.524.033 | 8.524.053 | 8.524.073 | 8.524.093 |
| C-1 | 10 | 8.524.014 | 8.524.034 | 8.524.054 | 8.524.074 | 8.524.094 |
| C-6 | 10 | 8.524.015 | 8.524.035 | 8.524.055 | 8.524.075 | 8.524.095 |
| CN | 10 | 8.524.016 | 8.524.036 | 8.524.056 | 8.524.076 | 8.524.096 |
| NH 2 | 10 | 8.524.017 | 8.524.037 | 8.524.057 | 8.524.077 | 8.524.097 |
| SAX | 10 | 8.524.019 | 8.524.038 | 8.524.058 | 8.524.078 | 8.524.098 |
| SCX | 10 | 8.524.019 | 8.524.039 | 8.524.059 | 8.524.079 | 8.524.099 |

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| ODS 1 | 5 | 8.524.100 | 8.524.120 | 8.524.140 | 8.524.160 | 8.524.180 |
| ODS 2 | 5 | 8.524.101 | 8.524.121 | 8.524.141 | 8.524.161 | 8.524.181 |
| Si | 5 | 8.524.102 | 8.524.122 | 8.524.142 | 8.524.162 | 8.524.182 |
| C-1 | 5 | 8.524.103 | 8.524.123 | 8.524.143 | 8.524.163 | 8.524.183 |
| C-6 | 5 | 8.524.104 | 8.524.124 | 8.524.144 | 8.524.164 | 8.524.184 |
| C-8 | 5 | 8.524.105 | 8.524.125 | 8.524.145 | 8.524.165 | 8.524.185 |
| CN | 5 | 8.524.106 | 8.524.126 | 8.524.146 | 8.524.166 | 8.524.186 |
| NH 2 | 5 | 8.524.108 | 8.524.127 | 8.524.147 | 8.524.167 | 8.524.187 |
| Phenyl | 5 | 8.524.109 | 8.524.128 | 8.524.148 | 8.524.168 | 8.524.188 |
| SAX | 5 | 8.524.109 | 8.524.129 | 8.524.149 | 8.524.169 | 8.524.189 |
| SCX | 5 | 8.524.110 | 8.524.130 | 8.524.150 | 8.524.170 | 8.524.190 |
| | | | | | | |
| ODS 1 | 10 | 8.524.111 | 8.524.131 | 8.524.151 | 8.524.171 | 8.524.191 |
| ODS 2 | 10 | 8.524.112 | 8.524.132 | 8.524.152 | 8.524.172 | 8.524.192 |
| Si | 10 | 8.524.113 | 8.524.133 | 8.524.153 | 8.524.173 | 8.524.193 |
| C-1 | 10 | 8.524.114 | 8.524.134 | 8.524.154 | 8.524.174 | 8.524.194 |
| C-6 | 10 | 8.524.115 | 8.524.135 | 8.524.155 | 8.524.175 | 8.524.195 |
| CN | 10 | 8.524.116 | 8.524.136 | 8.524.156 | 8.524.176 | 8.524.196 |
| NH 2 | 10 | 8.524.117 | 8.524.137 | 8.524.157 | 8.524.177 | 8.524.197 |
| SAX | 10 | 8.524.118 | 8.524.138 | 8.524.158 | 8.524.178 | 8.524.198 |
| SCX | 10 | 8.524.119 | 8.524.139 | 8.524.159 | 8.524.179 | 8.524.199 |

## Ultrarapid columns Tracer EXTRASIL

*Colonnes ultrarapides Tracer Extrasil*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 x 0.46 cm | 10 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| ODS 1 | 3 | 8.524.200 | 8.524.210 | 8.524.220 | 8.524.230 | 8.524.240 |
| ODS 2 | 3 | 8.524.201 | 8.524.211 | 8.524.221 | 8.524.231 | 8.524.241 |
| Si | 3 | 8.524.202 | 8.524.212 | 8.524.222 | 8.524.232 | 8.524.242 |
| C-1 | 3 | 8.524.203 | 8.524.213 | 8.524.223 | 8.524.233 | 8.524.243 |
| C-6 | 3 | 8.524.204 | 8.524.214 | 8.524.224 | 8.524.234 | 8.524.244 |
| C-8 | 3 | 8.524.205 | 8.524.215 | 8.524.225 | 8.524.235 | 8.524.245 |
| CN | 3 | 8.524.206 | 8.524.216 | 8.524.226 | 8.524.236 | 8.524.246 |
| NH 2 | 3 | 8.524.207 | 8.524.217 | 8.524.227 | 8.524.237 | 8.524.247 |
| Phenyl | 3 | 8.524.208 | 8.524.218 | 8.524.228 | 8.524.238 | 8.524.248 |

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 4 x 0.4 cm | 10 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| ODS 1 | 3 | 8.524.250 | 8.524.260 | 8.524.270 | 8.524.280 | 8.524.290 |
| ODS 2 | 3 | 8.524.251 | 8.524.261 | 8.524.271 | 8.524.281 | 8.524.291 |
| Si | 3 | 8.524.252 | 8.524.262 | 8.524.272 | 8.524.282 | 8.524.292 |
| C-1 | 3 | 8.524.253 | 8.524.263 | 8.524.273 | 8.524.283 | 8.524.293 |
| C-6 | 3 | 8.524.254 | 8.524.264 | 8.524.274 | 8.524.284 | 8.524.294 |
| C-8 | 3 | 8.524.255 | 8.524.265 | 8.524.275 | 8.524.285 | 8.524.295 |
| CN | 3 | 8.524.256 | 8.524.266 | 8.524.276 | 8.524.286 | 8.524.296 |
| NH 2 | 3 | 8.524.257 | 8.524.267 | 8.524.277 | 8.524.287 | 8.524.297 |
| Phenyl | 3 | 8.524.258 | 8.524.268 | 8.524.278 | 8.524.288 | 8.524.298 |

**Semi-preparative columns Tracer EXTRASIL**

***Colonnes analytiques semi-préparative Tracer Extrasil***

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 15 x 0.7 cm | 25 x 0.7cm | 15 x 1.0 cm | 25 x 1.0 cm |
| ODS 1 | 5 | 8.524.300 | 8.524.320 | 8.524.340 | 8.524.360 |
| ODS 2 | 5 | 8.524.301 | 8.524.321 | 8.524.341 | 8.524.361 |
| Si | 5 | 8.524.302 | 8.524.322 | 8.524.342 | 8.524.362 |
| C-1 | 5 | 8.524.303 | 8.524.323 | 8.524.343 | 8.524.363 |
| C-6 | 5 | 8.524.304 | 8.524.324 | 8.524.344 | 8.524.364 |
| C-8 | 5 | 8.524.305 | 8.524.325 | 8.524.345 | 8.524.365 |
| CN | 5 | 8.524.306 | 8.524.326 | 8.524.346 | 8.524.366 |
| NH 2 | 5 | 8.524.307 | 8.524.327 | 8.524.347 | 8.524.367 |
| Phenyl | 5 | 8.524.308 | 8.524.328 | 8.524.348 | 8.524.368 |
| SAX | 5 | 8.524.309 | 8.524.329 | 8.524.349 | 8.524.369 |
| SCX | 5 | 8.524.310 | 8.524.330 | 8.524.350 | 8.524.370 |
| | | | | | |
| ODS 1 | 10 | 8.524.311 | 8.524.331 | 8.524.351 | 8.524.371 |
| ODS 2 | 10 | 8.524.312 | 8.524.332 | 8.524.352 | 8.524.372 |
| Si | 10 | 8.524.313 | 8.524.333 | 8.524.353 | 8.524.373 |
| C-6 | 10 | 8.524.314 | 8.524.334 | 8.524.354 | 8.524.374 |
| CN | 10 | 8.524.315 | 8.524.335 | 8.524.355 | 8.524.375 |
| NH 2 | 10 | 8.524.316 | 8.524.336 | 8.524.356 | 8.524.376 |
| Phenyl | 10 | 8.524.317 | 8.524.337 | 8.524.357 | 8.524.377 |
| SAX | 10 | 8.524.318 | 8.524.338 | 8.524.358 | 8.524.378 |
| SCX | 10 | 8.524.319 | 8.524.339 | 8.524.359 | 8.524.379 |

**Microbore columns Tracer EXTRASIL**

***Colonnes analytiques Microbore Tracer Extrasil***

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 10 x 0.21 cm | 20 x 0.21cm | 10 x 0.3 cm | 20 x 0.3 cm |
| ODS 1 | 5 | 8.524.400 | 8.524.420 | 8.524.440 | 8.524.460 |
| ODS 2 | 5 | 8.524.401 | 8.524.421 | 8.524.441 | 8.524.461 |
| Si | 5 | 8.524.402 | 8.524.422 | 8.524.442 | 8.524.462 |
| C-1 | 5 | 8.524.403 | 8.524.423 | 8.524.443 | 8.524.463 |
| C-6 | 5 | 8.524.404 | 8.524.424 | 8.524.444 | 8.524.464 |
| C-8 | 5 | 8.524.405 | 8.524.425 | 8.524.445 | 8.524.465 |
| CN | 5 | 8.524.406 | 8.524.426 | 8.524.446 | 8.524.466 |
| NH 2 | 5 | 8.524.407 | 8.524.427 | 8.524.447 | 8.524.467 |
| Phenyl | 5 | 8.524.408 | 8.524.428 | 8.524.448 | 8.524.468 |
| SAX | 5 | 8.524.409 | 8.524.429 | 8.524.449 | 8.524.469 |
| SCX | 5 | 8.524.410 | 8.524.430 | 8.524.450 | 8.524.470 |

**Novafix™ Cartridge Tracer EXTRASIL**

***Cartouches Novafix™ Tracer Extrasil***

| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| ODS 1 | 3 | 8.524.500 | 8.524.530 | 8.524.560 |
| ODS 2 | 3 | 8.524.501 | 8.524.531 | 8.524.561 |
| Si | 3 | 8.524.502 | 8.524.532 | 8.524.562 |
| C-1 | 3 | 8.524.503 | 8.524.533 | 8.524.563 |
| C-6 | 3 | 8.524.504 | 8.524.534 | 8.524.564 |
| C-8 | 3 | 8.524.505 | 8.524.535 | 8.524.565 |
| CN | 3 | 8.524.506 | 8.524.536 | 8.524.566 |
| NH 2 | 3 | 8.524.507 | 8.524.537 | 8.524.567 |
| Phenyl | 3 | 8.524.508 | 8.524.538 | 8.524.568 |
| | | | | |
| ODS 1 | 5 | 8.524.509 | 8.524.539 | 8.524.569 |
| ODS 2 | 5 | 8.524.510 | 8.524.540 | 8.524.570 |
| Si | 5 | 8.524.511 | 8.524.541 | 8.524.571 |
| C-1 | 5 | 8.524.512 | 8.524.542 | 8.524.572 |
| C-6 | 5 | 8.524.513 | 8.524.543 | 8.524.573 |
| C-8 | 5 | 8.524.514 | 8.524.544 | 8.524.574 |
| CN | 5 | 8.524.515 | 8.524.545 | 8.524.575 |
| NH 2 | 5 | 8.524.516 | 8.524.546 | 8.524.576 |
| Phenyl | 5 | 8.524.517 | 8.524.547 | 8.524.577 |
| SCX | 5 | 8.524.518 | 8.524.548 | 8.524.578 |
| SAX | 5 | 8.524.519 | 8.524.549 | 8.524.579 |





### Novafix™ Cartridge Tracer EXTRASIL

*Cartouches Novafix™ Tracer Extrasil*

| Type<br>*Type* | | Dimension<br>*Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| ODS 1 | 10 | 8.524.520 | 8.524.550 | 8.524.580 |
| ODS 2 | 10 | 8.524.521 | 8.524.551 | 8.524.581 |
| Si | 10 | 8.524.522 | 8.524.552 | 8.524.582 |
| C-1 | 10 | 8.524.523 | 8.524.553 | 8.524.583 |
| C-6 | 10 | 8.524.524 | 8.524.554 | 8.524.584 |
| CN | 10 | 8.524.525 | 8.524.555 | 8.524.585 |
| NH 2 | 10 | 8.524.526 | 8.524.556 | 8.524.586 |
| SCX | 10 | 8.524.527 | 8.524.557 | 8.524.587 |
| SAX | 10 | 8.524.528 | 8.524.558 | 8.524.588 |

### Analytical columns NUCLEOSIL 100

*Colonnes analytiques NUCLEOSIL 100*

| Type<br>*Type* | | Dimension<br>*Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| Si | 5 | 8.524.600 | 8.524.620 | 8.524.640 | 8.524.660 | 8.524.680 |
| C-18 | 5 | 8.524.601 | 8.524.621 | 8.524.641 | 8.524.661 | 8.524.681 |
| C-8 | 5 | 8.524.602 | 8.524.622 | 8.524.642 | 8.524.662 | 8.524.682 |
| P | 5 | 8.524.603 | 8.524.623 | 8.524.643 | 8.524.663 | 8.524.683 |
| C-2 | 7 | 8.524.604 | 8.524.624 | 8.524.644 | 8.524.664 | 8.524.684 |
| CN | 5 | 8.524.605 | 8.524.625 | 8.524.645 | 8.524.665 | 8.524.685 |
| Diol | 7 | 8.524.606 | 8.524.626 | 8.524.646 | 8.524.666 | 8.524.686 |
| NH2 | 5 | 8.524.607 | 8.524.627 | 8.524.647 | 8.524.667 | 8.524.687 |
| NO2 | 5 | 8.524.608 | 8.524.628 | 8.524.648 | 8.524.668 | 8.524.688 |
| N(CH3)2 | 5 | 8.524.609 | 8.524.629 | 8.524.649 | 8.524.669 | 8.524.689 |
| SA | 5 | 8.524.610 | 8.524.630 | 8.524.650 | 8.524.670 | 8.524.690 |
| SB | 5 | 8.524.611 | 8.524.631 | 8.524.651 | 8.524.671 | 8.524.691 |
| | | | | | | |
| Si | 10 | 8.524.612 | 8.524.632 | 8.524.652 | 8.524.672 | 8.524.692 |
| C-18 | 10 | 8.524.613 | 8.524.633 | 8.524.653 | 8.524.673 | 8.524.693 |
| C-8 | 10 | 8.524.614 | 8.524.634 | 8.524.654 | 8.524.674 | 8.524.694 |
| CN | 10 | 8.524.615 | 8.524.635 | 8.524.655 | 8.524.675 | 8.524.695 |
| NH2 | 10 | 8.524.616 | 8.524.636 | 8.524.656 | 8.524.676 | 8.524.696 |
| NO2 | 10 | 8.524.617 | 8.524.637 | 8.524.657 | 8.524.677 | 8.524.697 |
| SA | 10 | 8.524.618 | 8.524.638 | 8.524.658 | 8.524.678 | 8.524.698 |
| SB | 10 | 8.524.619 | 8.524.639 | 8.524.659 | 8.524.679 | 8.524.699 |

| Type<br>*Type* | | Dimension<br>*Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| Si | 5 | 8.524.700 | 8.524.720 | 8.524.740 | 8.524.760 | 8.524.780 |
| C-18 | 5 | 8.524.701 | 8.524.721 | 8.524.741 | 8.524.761 | 8.524.781 |
| C-8 | 5 | 8.524.702 | 8.524.722 | 8.524.742 | 8.524.762 | 8.524.782 |
| P | 5 | 8.524.703 | 8.524.723 | 8.524.743 | 8.524.763 | 8.524.783 |
| C-2 | 7 | 8.524.704 | 8.524.724 | 8.524.744 | 8.524.764 | 8.524.784 |
| CN | 5 | 8.524.705 | 8.524.725 | 8.524.745 | 8.524.765 | 8.524.785 |
| Diol | 7 | 8.524.706 | 8.524.726 | 8.524.746 | 8.524.766 | 8.524.786 |
| NH2 | 5 | 8.524.707 | 8.524.727 | 8.524.747 | 8.524.767 | 8.524.787 |
| NO2 | 5 | 8.524.708 | 8.524.728 | 8.524.748 | 8.524.768 | 8.524.788 |
| N(CH3)2 | 5 | 8.524.709 | 8.524.729 | 8.524.749 | 8.524.769 | 8.524.789 |
| SA | 5 | 8.524.710 | 8.524.730 | 8.524.750 | 8.524.770 | 8.524.790 |
| SB | 5 | 8.524.711 | 8.524.731 | 8.524.751 | 8.524.771 | 8.524.791 |
| | | | | | | |
| Si | 10 | 8.524.712 | 8.524.732 | 8.524.752 | 8.524.772 | 8.524.792 |
| C-18 | 10 | 8.524.713 | 8.524.733 | 8.524.753 | 8.524.773 | 8.524.793 |
| C-8 | 10 | 8.524.714 | 8.524.734 | 8.524.754 | 8.524.774 | 8.524.794 |
| CN | 10 | 8.524.715 | 8.524.735 | 8.524.755 | 8.524.775 | 8.524.795 |
| NH2 | 10 | 8.524.716 | 8.524.736 | 8.524.756 | 8.524.776 | 8.524.796 |
| NO2 | 10 | 8.524.717 | 8.524.737 | 8.524.757 | 8.524.777 | 8.524.797 |
| SA | 10 | 8.524.718 | 8.524.738 | 8.524.758 | 8.524.778 | 8.524.798 |
| SB | 10 | 8.524.719 | 8.524.739 | 8.524.759 | 8.524.779 | 8.524.799 |

## Analytical columns NUCLEOSIL 120

*Colonnes analytiques NUCLEOSIL 120*

| Type / Type | | Dimension / Dimension | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| Si | 5 | 8.524.800 | 8.524.810 | 8.524.820 | 8.524.830 | 8.524.840 |
| C-18 | 5 | 8.524.801 | 8.524.811 | 8.524.821 | 8.524.831 | 8.524.841 |
| C-8 | 5 | 8.524.802 | 8.524.812 | 8.524.822 | 8.524.832 | 8.524.842 |
| C4 | 5 | 8.524.803 | 8.524.813 | 8.524.823 | 8.524.833 | 8.524.843 |
| P | 5 | 8.524.804 | 8.524.814 | 8.524.824 | 8.524.834 | 8.524.844 |
| CN | 5 | 8.524.805 | 8.524.815 | 8.524.825 | 8.524.835 | 8.524.845 |
| NH2 | 5 | 8.524.806 | 8.524.816 | 8.524.826 | 8.524.836 | 8.524.846 |
| Si | 10 | 8.524.807 | 8.524.817 | 8.524.827 | 8.524.837 | 8.524.847 |
| C-18 | 10 | 8.524.808 | 8.524.818 | 8.524.828 | 8.524.838 | 8.524.848 |
| C-8 | 10 | 8.524.809 | 8.524.819 | 8.524.829 | 8.524.839 | 8.524.849 |

| Type / Type | | Dimension / Dimension | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| Si | 5 | 8.524.850 | 8.524.860 | 8.524.870 | 8.524.880 | 8.524.890 |
| C-18 | 5 | 8.524.851 | 8.524.861 | 8.524.871 | 8.524.881 | 8.524.891 |
| C-8 | 5 | 8.524.852 | 8.524.862 | 8.524.872 | 8.524.882 | 8.524.892 |
| C4 | 5 | 8.524.853 | 8.524.863 | 8.524.873 | 8.524.883 | 8.524.893 |
| P | 5 | 8.524.854 | 8.524.864 | 8.524.874 | 8.524.884 | 8.524.894 |
| CN | 5 | 8.524.855 | 8.524.865 | 8.524.875 | 8.524.885 | 8.524.895 |
| NH2 | 5 | 8.524.856 | 8.524.866 | 8.524.876 | 8.524.886 | 8.524.896 |
| Si | 10 | 8.524.857 | 8.524.867 | 8.524.877 | 8.524.887 | 8.524.897 |
| C-18 | 10 | 8.524.858 | 8.524.868 | 8.524.878 | 8.524.888 | 8.524.898 |
| C-8 | 10 | 8.524.859 | 8.524.869 | 8.524.879 | 8.524.889 | 8.524.899 |

## Ultrarapid columns NUCLEOSIL

*Colonnes Ultrarapids NUCLEOSIL*

| Type / Type | | Dimension / Dimension | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| 100 C-18 | 5 | 8.524.900 | 8.524.910 | 8.524.920 | 8.524.930 | 8.524.940 |
| 100 C-18 | 5 | 8.524.901 | 8.524.911 | 8.524.921 | 8.524.931 | 8.524.941 |
| 120 C-8 | 5 | 8.524.902 | 8.524.912 | 8.524.922 | 8.524.932 | 8.524.942 |

| Type / Type | | Dimension / Dimension | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| 100 C-18 | 5 | 8.524.950 | 8.524.960 | 8.524.970 | 8.524.980 | 8.524.990 |
| 100 C-18 | 5 | 8.524.951 | 8.524.961 | 8.524.971 | 8.524.981 | 8.524.991 |
| 120 C-8 | 5 | 8.524.952 | 8.524.962 | 8.524.972 | 8.524.982 | 8.524.992 |

## Microbore columns NUCLEOSIL 100

*Colonnes analytiques Microbore NUCLEOSIL 100*

| Type / Type | | Dimension / Dimension | | | |
|---|---|---|---|---|---|
| | µm | 10 x 0.21 cm | 20 x 0.21cm | 10 x 0.3 cm | 20 x 0.3 cm |
| Si | 5 | 8.525.000 | 8.525.020 | 8.525.040 | 8.525.060 |
| C-18 | 5 | 8.525.001 | 8.525.021 | 8.525.041 | 8.525.061 |
| C-8 | 5 | 8.525.002 | 8.525.022 | 8.525.042 | 8.525.062 |
| C6 H5 | 5 | 8.525.003 | 8.525.023 | 8.525.043 | 8.525.063 |
| C-2 | 7 | 8.525.004 | 8.525.024 | 8.525.044 | 8.525.064 |
| CN | 5 | 8.525.005 | 8.525.025 | 8.525.045 | 8.525.065 |
| Diol | 7 | 8.525.006 | 8.525.026 | 8.525.046 | 8.525.066 |
| NH2 | 5 | 8.525.007 | 8.525.027 | 8.525.047 | 8.525.067 |
| NO2 | 5 | 8.525.008 | 8.525.028 | 8.525.048 | 8.525.068 |
| N(CH3)2 | 5 | 8.525.009 | 8.525.029 | 8.525.049 | 8.525.069 |
| SA | 5 | 8.525.010 | 8.525.030 | 8.525.050 | 8.525.070 |
| SB | 5 | 8.525.011 | 8.525.031 | 8.525.051 | 8.525.071 |

## Microbore columns NUCLEOSIL 120

*Colonnes analytiques Microbore NUCLEOSIL 120*

| Type / Type | | Dimension / Dimension | | | |
|---|---|---|---|---|---|
| | µm | 10 x 0.21 cm | 20 x 0.21cm | 10 x 0.3 cm | 20 x 0.3 cm |
| Si | 5 | 8.525.100 | 8.525.110 | 8.525.120 | 8.525.130 |
| C-18 | 5 | 8.525.101 | 8.525.111 | 8.525.121 | 8.525.131 |
| C-8 | 5 | 8.525.102 | 8.525.112 | 8.525.122 | 8.525.132 |
| C6 H5 | 5 | 8.525.103 | 8.525.113 | 8.525.123 | 8.525.133 |
| CN | 5 | 8.525.104 | 8.525.114 | 8.525.124 | 8.525.134 |
| NH2 | 5 | 8.525.105 | 8.525.115 | 8.525.125 | 8.525.135 |





### Novafix™ Cartridge NUCLEOSIL 100

*Cartouches Novafix™ NUCLEOSIL 100*

| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| Si | 3 | 8.525.200 | 8.525.230 | 8.525.260 |
| C-18 | 3 | 8.525.201 | 8.525.231 | 8.525.261 |
| | | | | |
| Si | 5 | 8.525.202 | 8.525.232 | 8.525.262 |
| C-18 | 5 | 8.525.203 | 8.525.233 | 8.525.263 |
| C-8 | 5 | 8.525.204 | 8.525.234 | 8.525.264 |
| C-2 | 7 | 8.525.205 | 8.525.235 | 8.525.265 |
| C6H5 | 5 | 8.525.206 | 8.525.236 | 8.525.266 |
| CN | 5 | 8.525.207 | 8.525.237 | 8.525.267 |
| NO2 | 5 | 8.525.208 | 8.525.238 | 8.525.268 |
| NH2 | 5 | 8.525.209 | 8.525.239 | 8.525.269 |
| N(CH3)2 | 5 | 8.525.210 | 8.525.240 | 8.525.270 |
| DIOL | 7 | 8.525.211 | 8.525.241 | 8.525.271 |
| SA | 5 | 8.525.212 | 8.525.242 | 8.525.272 |
| SB | 5 | 8.525.213 | 8.525.243 | 8.525.273 |
| | | | | |
| Si | 10 | 8.525.214 | 8.525.244 | 8.525.274 |
| C-18 | 10 | 8.525.215 | 8.525.245 | 8.525.275 |
| C-8 | 10 | 8.525.216 | 8.525.246 | 8.525.276 |
| CN | 10 | 8.525.217 | 8.525.247 | 8.525.277 |
| NO2 | 10 | 8.525.218 | 8.525.248 | 8.525.278 |
| NH2 | 10 | 8.525.219 | 8.525.249 | 8.525.279 |
| SA | 10 | 8.525.220 | 8.525.250 | 8.525.280 |
| SB | 10 | 8.525.221 | 8.525.251 | 8.525.281 |

### Novafix™ Cartridge NUCLEOSIL 120

*Cartouches Novafix™ NUCLEOSIL 120*

| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| Si | 3 | 8.525.300 | 8.525.320 | 8.525.340 |
| C-8 | 3 | 8.525.301 | 8.525.321 | 8.525.341 |
| C-18 | 3 | 8.525.302 | 8.525.322 | 8.525.342 |
| | | | | |
| Si | 5 | 8.525.303 | 8.525.323 | 8.525.343 |
| C-18 | 5 | 8.525.304 | 8.525.324 | 8.525.344 |
| C-8 | 5 | 8.525.305 | 8.525.325 | 8.525.345 |
| | | | | |
| C6H5 | 7 | 8.525.306 | 8.525.326 | 8.525.346 |
| CN | 7 | 8.525.307 | 8.525.327 | 8.525.347 |
| NH2 | 7 | 8.525.308 | 8.525.328 | 8.525.348 |
| | | | | |
| Si | 10 | 8.525.309 | 8.525.329 | 8.525.349 |
| C-18 | 10 | 8.525.310 | 8.525.330 | 8.525.350 |
| C-8 | 10 | 8.525.311 | 8.525.331 | 8.525.351 |

### Semi-preparative columns NUCLEOSIL

*Colonnes analytiques semi-préparative NUCLEOSIL*

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 15 x 0.7 cm | 25 x 0.7cm | 15 x 1.0 cm | 25 x 1.0 cm |
| Si | 5 | 8.525.360 | 8.525.370 | 8.525.380 | 8.525.390 |
| C-18 | 5 | 8.525.361 | 8.525.371 | 8.525.381 | 8.525.391 |
| C-8 | 5 | 8.525.362 | 8.525.372 | 8.525.382 | 8.525.392 |
| C-4 | 5 | 8.525.363 | 8.525.373 | 8.525.383 | 8.525.393 |
| C6 H5 | 5 | 8.525.364 | 8.525.374 | 8.525.384 | 8.525.394 |
| CN | 5 | 8.525.365 | 8.525.375 | 8.525.385 | 8.525.395 |
| NH 2 | 5 | 8.525.366 | 8.525.376 | 8.525.386 | 8.525.396 |
| | | | | | |
| Si | 10 | 8.525.367 | 8.525.377 | 8.525.387 | 8.525.397 |
| C-18 | 10 | 8.525.368 | 8.525.378 | 8.525.388 | 8.525.398 |
| C-8 | 10 | 8.525.369 | 8.525.379 | 8.525.389 | 8.525.399 |

**Semi-preparative columns NUCLEOSIL 100**

***Colonnes analytiques semi-préparative NUCLEOSIL 100***

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 15 x 0.7 cm | 25 x 0.7cm | 15 x 1.0 cm | 25 x 1.0 cm |
| Si | 5 | 8.525.400 | 8.525.430 | 8.525.460 | 8.525.490 |
| C-2 | 7 | 8.525.401 | 8.525.431 | 8.525.461 | 8.525.491 |
| C-8 | 5 | 8.525.402 | 8.525.432 | 8.525.462 | 8.525.492 |
| C-18 | 5 | 8.525.403 | 8.525.433 | 8.525.463 | 8.525.493 |
| Phenyl | 7 | 8.525.404 | 8.525.434 | 8.525.464 | 8.525.494 |
| CN | 5 | 8.525.405 | 8.525.435 | 8.525.465 | 8.525.495 |
| DIOL | 7 | 8.525.406 | 8.525.436 | 8.525.466 | 8.525.496 |
| NH2 | 5 | 8.525.407 | 8.525.437 | 8.525.467 | 8.525.497 |
| N(CH3)2 | 5 | 8.525.408 | 8.525.438 | 8.525.468 | 8.525.498 |
| SA | 5 | 8.525.409 | 8.525.439 | 8.525.469 | 8.525.499 |
| SB | 5 | 8.525.410 | 8.525.440 | 8.525.470 | 8.525.500 |
| NO2 | 5 | 8.525.411 | 8.525.441 | 8.525.471 | 8.525.501 |
| | | | | | |
| Si | 10 | 8.525.412 | 8.525.442 | 8.525.472 | 8.525.502 |
| C-8 | 10 | 8.525.413 | 8.525.443 | 8.525.473 | 8.525.503 |
| C-18 | 10 | 8.525.414 | 8.525.444 | 8.525.474 | 8.525.504 |
| CN | 10 | 8.525.415 | 8.525.445 | 8.525.475 | 8.525.505 |
| N02 | 10 | 8.525.416 | 8.525.446 | 8.525.476 | 8.525.506 |
| NH2 | 10 | 8.525.417 | 8.525.447 | 8.525.477 | 8.525.507 |
| N(CH3)2 | 10 | 8.525.418 | 8.525.448 | 8.525.478 | 8.525.508 |
| SA | 10 | 8.525.419 | 8.525.449 | 8.525.479 | 8.525.509 |
| SB2 | 10 | 8.525.420 | 8.525.450 | 8.525.480 | 8.525.510 |

**Novafix™ Cartridge LICHROSORB**

***Cartouches Novafix™ LICHROSORB***

| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| Si 60 | 5 | 8.525.520 | 8.525.540 | 8.525.560 |
| RP-18 | 5 | 8.525.521 | 8.525.541 | 8.525.561 |
| RP-8 | 5 | 8.525.522 | 8.525.542 | 8.525.562 |
| Diol | 5 | 8.525.523 | 8.525.543 | 8.525.563 |
| NH2 | 5 | 8.525.524 | 8.525.544 | 8.525.564 |
| CN | 5 | 8.525.525 | 8.525.545 | 8.525.565 |
| RP-Select B | 5 | 8.525.526 | 8.525.546 | 8.525.566 |
| | | | | |
| Si 60 | 10 | 8.525.527 | 8.525.547 | 8.525.567 |
| RP-18 | 10 | 8.525.528 | 8.525.548 | 8.525.568 |
| RP-8 | 10 | 8.525.529 | 8.525.549 | 8.525.569 |
| Diol | 10 | 8.525.530 | 8.525.550 | 8.525.570 |
| NH2 | 10 | 8.525.531 | 8.525.551 | 8.525.571 |
| CN | 10 | 8.525.532 | 8.525.552 | 8.525.572 |
| RP-Select B | 10 | 8.525.533 | 8.525.553 | 8.525.573 |

**Semi-preparative Tracer columns LICHROSORB**

***Colonnes analytiques semi-préparative Tracer LICHROSORB***

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 15 x 0.7 cm | 25 x 0.7cm | 15 x 1.0 cm | 25 x 1.0 cm |
| RP-18 | 5 | 8.525.580 | 8.525.582 | 8.525.584 | 8.525.586 |

**Analytical columns LICHROSORB**

***Colonnes analytiques LICHROSORB***

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| Si 60 | 5 | 8.525.600 | 8.525.620 | 8.525.640 | 8.525.660 | 8.525.680 |
| RP-8 | 5 | 8.525.601 | 8.525.621 | 8.525.641 | 8.525.661 | 8.525.681 |
| RP-18 | 5 | 8.525.602 | 8.525.622 | 8.525.642 | 8.525.662 | 8.525.682 |
| RP-Select B | 5 | 8.525.603 | 8.525.623 | 8.525.643 | 8.525.663 | 8.525.683 |
| Diol | 5 | 8.525.604 | 8.525.624 | 8.525.644 | 8.525.664 | 8.525.684 |
| NH2 | 5 | 8.525.605 | 8.525.625 | 8.525.645 | 8.525.665 | 8.525.685 |
| CN | 5 | 8.525.606 | 8.525.626 | 8.525.646 | 8.525.666 | 8.525.686 |
| | | | | | | |
| Si 60 | 10 | 8.525.607 | 8.525.627 | 8.525.647 | 8.525.667 | 8.525.687 |
| RP-8 | 10 | 8.525.608 | 8.525.628 | 8.525.648 | 8.525.668 | 8.525.688 |
| RP-18 | 10 | 8.525.609 | 8.525.629 | 8.525.649 | 8.525.669 | 8.525.689 |
| Diol | 10 | 8.525.610 | 8.525.630 | 8.525.650 | 8.525.670 | 8.525.690 |
| NH2 | 10 | 8.525.611 | 8.525.631 | 8.525.651 | 8.525.671 | 8.525.691 |
| CN | 10 | 8.525.612 | 8.525.632 | 8.525.652 | 8.525.672 | 8.525.692 |





**Analytical columns LICHROSORB** *Colonnes analytiques LICHROSORB*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| Si 60 | 5 | 8.525.700 | 8.525.720 | 8.525.740 | 8.525.760 | 8.525.780 |
| RP-8 | 5 | 8.525.701 | 8.525.721 | 8.525.741 | 8.525.761 | 8.525.781 |
| RP-18 | 5 | 8.525.702 | 8.525.722 | 8.525.742 | 8.525.762 | 8.525.782 |
| RP-Select B | 5 | 8.525.703 | 8.525.723 | 8.525.743 | 8.525.763 | 8.525.783 |
| Diol | 5 | 8.525.704 | 8.525.724 | 8.525.744 | 8.525.764 | 8.525.784 |
| NH2 | 5 | 8.525.705 | 8.525.725 | 8.525.745 | 8.525.765 | 8.525.785 |
| CN | 5 | 8.525.706 | 8.525.726 | 8.525.746 | 8.525.766 | 8.525.786 |
| Si 60 | 10 | 8.525.707 | 8.525.727 | 8.525.747 | 8.525.767 | 8.525.787 |
| RP-8 | 10 | 8.525.708 | 8.525.728 | 8.525.748 | 8.525.768 | 8.525.788 |
| RP-18 | 10 | 8.525.709 | 8.525.729 | 8.525.749 | 8.525.769 | 8.525.789 |
| Diol | 10 | 8.525.710 | 8.525.730 | 8.525.750 | 8.525.770 | 8.525.790 |
| NH2 | 10 | 8.525.711 | 8.525.731 | 8.525.751 | 8.525.761 | 8.525.791 |
| CN | 10 | 8.525.712 | 8.525.732 | 8.525.752 | 8.525.762 | 8.525.792 |

**Analytical columns LICHROSPHER** *Colonnes analytiques LICHROSPHER*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| Si 100 | 5 | 8.525.800 | 8.525.820 | 8.525.840 | 8.525.860 | 8.525.880 |
| 100 RP-18 | 5 | 8.525.801 | 8.525.821 | 8.525.841 | 8.525.861 | 8.525.881 |
| 100 RP-18 ec | 5 | 8.525.802 | 8.525.822 | 8.525.842 | 8.525.862 | 8.525.882 |
| 100 RP-8 | 5 | 8.525.803 | 8.525.823 | 8.525.843 | 8.525.863 | 8.525.883 |
| 100 RP-8 ec | 5 | 8.525.804 | 8.525.824 | 8.525.844 | 8.525.864 | 8.525.884 |
| 100 NH2 | 5 | 8.525.805 | 8.525.825 | 8.525.845 | 8.525.865 | 8.525.885 |
| 100 CN | 5 | 8.525.806 | 8.525.826 | 8.525.846 | 8.525.866 | 8.525.886 |
| 100 Diol | 5 | 8.525.807 | 8.525.827 | 8.525.847 | 8.525.867 | 8.525.887 |
| 60 RP-Select B | 5 | 8.525.808 | 8.525.828 | 8.525.848 | 8.525.868 | 8.525.888 |
| Si 100 | 10 | 8.525.809 | 8.525.829 | 8.525.849 | 8.525.869 | 8.525.889 |
| 100 RP-18 | 10 | 8.525.810 | 8.525.830 | 8.525.850 | 8.525.870 | 8.525.890 |
| 100 RP-18 ec | 10 | 8.525.811 | 8.525.831 | 8.525.851 | 8.525.871 | 8.525.891 |
| 100 RP-8 | 10 | 8.525.812 | 8.525.832 | 8.525.852 | 8.525.872 | 8.525.892 |
| 100 RP-8 ec | 10 | 8.525.813 | 8.525.833 | 8.525.853 | 8.525.873 | 8.525.893 |
| 100 CN | 10 | 8.525.814 | 8.525.834 | 8.525.854 | 8.525.874 | 8.525.894 |
| 100 Diol | 10 | 8.525.815 | 8.525.835 | 8.525.855 | 8.525.875 | 8.525.895 |
| 60 RP-Select B | 10 | 8.525.816 | 8.525.836 | 8.525.856 | 8.525.876 | 8.525.896 |

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| Si 100 | 5 | 8.525.900 | 8.525.920 | 8.525.940 | 8.525.960 | 8.525.980 |
| 100 RP-18 | 5 | 8.525.901 | 8.525.921 | 8.525.941 | 8.525.961 | 8.525.981 |
| 100 RP-18 ec | 5 | 8.525.902 | 8.525.922 | 8.525.942 | 8.525.962 | 8.525.982 |
| 100 RP-8 | 5 | 8.525.903 | 8.525.923 | 8.525.943 | 8.525.963 | 8.525.983 |
| 100 RP-8 ec | 5 | 8.525.904 | 8.525.924 | 8.525.944 | 8.525.964 | 8.525.984 |
| 100 NH2 | 5 | 8.525.905 | 8.525.925 | 8.525.945 | 8.525.965 | 8.525.985 |
| 100 CN | 5 | 8.525.906 | 8.525.926 | 8.525.946 | 8.525.966 | 8.525.986 |
| 100 Diol | 5 | 8.525.907 | 8.525.927 | 8.525.947 | 8.525.967 | 8.525.987 |
| 60 RP-Select B | 5 | 8.525.908 | 8.525.928 | 8.525.948 | 8.525.968 | 8.525.988 |
| Si 100 | 10 | 8.525.909 | 8.525.929 | 8.525.949 | 8.525.969 | 8.525.989 |
| 100 RP-18 | 10 | 8.525.910 | 8.525.930 | 8.525.950 | 8.525.970 | 8.525.990 |
| 100 RP-18 ec | 10 | 8.525.911 | 8.525.931 | 8.525.951 | 8.525.971 | 8.525.991 |
| 100 RP-8 | 10 | 8.525.912 | 8.525.932 | 8.525.952 | 8.525.972 | 8.525.992 |
| 100 RP-8 ec | 10 | 8.525.913 | 8.525.933 | 8.525.953 | 8.525.973 | 8.525.993 |
| 100 CN | 10 | 8.525.914 | 8.525.934 | 8.525.954 | 8.525.974 | 8.525.994 |
| 100 Diol | 10 | 8.525.915 | 8.525.935 | 8.525.955 | 8.525.975 | 8.525.995 |
| 60 RP-Select B | 10 | 8.525.916 | 8.525.936 | 8.525.956 | 8.525.976 | 8.525.996 |

**Semi-preparative Tracer columns LICHROSPHER** *Colonnes analytiques semi-préparative Tracer LICHROSPHER*

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 15 x 0.7 cm | 25 x 0.7cm | 15 x 1.0 cm | 25 x 1.0 cm |
| RP-18 | 10 | 8.526.000 | 8.526.010 | 8.526.020 | 8.526.030 |
| RP-18 EC | 10 | 8.526.001 | 8.526.011 | 8.526.021 | 8.526.031 |

**Microbore Tracer columns LICHROSPHER** — *Colonnes analytiques Microbore LICHROSPHER*

| Type / *Type* | | Dimension / *Dimension* | | | |
|---|---|---|---|---|---|
| | µm | 15 x 0.7 cm | 25 x 0.7cm | 15 x 1.0 cm | 25 x 1.0 cm |
| RP-18 | 5 | 8.526.050 | 8.526.060 | 8.526.070 | 8.526.080 |
| RP-18 EC | 5 | 8.526.051 | 8.526.061 | 8.526.071 | 8.526.081 |

**Novafix™ Cartridge LICHROSPHER** — *Cartouches Novafix™ LICHROSPHER*

| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| Si 100 | 5 | 8.526.100 | 8.526.120 | 8.526.140 |
| 100 RP-18 | 5 | 8.526.101 | 8.526.121 | 8.526.141 |
| 100 RP-18 ec | 5 | 8.526.102 | 8.526.122 | 8.526.142 |
| 100 RP-8 | 5 | 8.526.103 | 8.526.123 | 8.526.143 |
| 100 RP-8 ec | 5 | 8.526.104 | 8.526.124 | 8.526.144 |
| 100 NH2 | 5 | 8.526.105 | 8.526.125 | 8.526.145 |
| 100 CN | 5 | 8.526.106 | 8.526.126 | 8.526.146 |
| 100 Diol | 5 | 8.526.107 | 8.526.127 | 8.526.147 |
| 60 RP-Select B | 5 | 8.526.108 | 8.526.128 | 8.526.148 |
| | | | | |
| Si 100 | 10 | 8.526.109 | 8.526.129 | 8.526.149 |
| 100 RP-18 | 10 | 8.526.110 | 8.526.130 | 8.526.150 |
| 100 RP-18 ec | 10 | 8.526.111 | 8.526.131 | 8.526.151 |
| 100 RP-8 | 10 | 8.526.112 | 8.526.132 | 8.526.152 |
| 100 RP-8 ec | 10 | 8.526.113 | 8.526.133 | 8.526.153 |
| 100 NH2 | 10 | 8.526.114 | 8.526.134 | 8.526.154 |
| 100 CN | 10 | 8.526.115 | 8.526.135 | 8.526.155 |
| 100 Diol | 10 | 8.526.116 | 8.526.136 | 8.526.156 |
| 60 RP-Select B | 10 | 8.526.117 | 8.526.137 | 8.526.157 |



**Analytical columns SUPERSPHER** — *Colonnes analytiques SUPERSPHER*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| Si 60 | 4 | 8.526.200 | 8.526.210 | 8.526.220 | 8.526.230 | 8.526.240 |
| 60 RP-8 | 4 | 8.526.201 | 8.526.211 | 8.526.221 | 8.526.231 | 8.526.241 |
| 100 RP-18 | 4 | 8.526.202 | 8.526.212 | 8.526.222 | 8.526.232 | 8.526.242 |
| 60 RP-8 ec | 4 | 8.526.203 | 8.526.213 | 8.526.223 | 8.526.233 | 8.526.243 |
| 100 RP-18 ec | 4 | 8.526.204 | 8.526.214 | 8.526.224 | 8.526.234 | 8.526.244 |
| **Type / *Type*** | | **Dimension / *Dimension*** | | | | |
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| Si 60 | 4 | 8.526.205 | 8.526.215 | 8.526.225 | 8.526.235 | 8.526.245 |
| 60 RP-8 | 4 | 8.526.206 | 8.526.216 | 8.526.226 | 8.526.236 | 8.526.246 |
| 100 RP-18 | 4 | 8.526.207 | 8.526.217 | 8.526.227 | 8.526.237 | 8.526.247 |
| 60 RP-8 ec | 4 | 8.526.208 | 8.526.218 | 8.526.228 | 8.526.238 | 8.526.248 |
| 100 RP-18 ec | 4 | 8.526.209 | 8.526.219 | 8.526.229 | 8.526.239 | 8.526.249 |

**Novafix™ Cartridge SUPERSPHER** — *Cartouches Novafix™ SUPERSPHER*

| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| Si 60 | 4 | 8.526.260 | 8.526.270 | 8.526.280 |
| 60 RP-8 | 4 | 8.526.261 | 8.526.271 | 8.526.281 |
| 100 RP-18 | 4 | 8.526.262 | 8.526.272 | 8.526.282 |
| 60 RP-8 ec | 4 | 8.526.263 | 8.526.273 | 8.526.283 |
| 100 RP-18 ec | 4 | 8.526.264 | 8.526.274 | 8.526.284 |



**Analytical columns PARTISIL** *Colonnes analytiques PARTISIL*

| Type / *Type* | | Dimension / *Dimension* | | | | |
|---|---|---|---|---|---|---|
| | µm | 10 x 0.46 cm | 12.5 x 0.46 cm | 15 x 0.46 cm | 20 x 0.46 cm | 25 x 0.46 cm |
| Silica | 5 | 8.526.300 | 8.526.320 | 8.526.340 | 8.526.360 | 8.526.380 |
| ODS3 | 5 | 8.526.301 | 8.526.321 | 8.526.341 | 8.526.361 | 8.526.381 |
| C-8 | 5 | 8.526.302 | 8.526.322 | 8.526.342 | 8.526.362 | 8.526.382 |
| PAC | 5 | 8.526.303 | 8.526.323 | 8.526.343 | 8.526.363 | 8.526.383 |
| | | | | | | |
| Silica | 10 | 8.526.304 | 8.526.324 | 8.526.344 | 8.526.364 | 8.526.384 |
| ODS | 10 | 8.526.305 | 8.526.325 | 8.526.345 | 8.526.365 | 8.526.385 |
| ODS2 | 10 | 8.526.306 | 8.526.326 | 8.526.346 | 8.526.366 | 8.526.386 |
| ODS3 | 10 | 8.526.307 | 8.526.327 | 8.526.347 | 8.526.367 | 8.526.387 |
| PAC | 10 | 8.526.308 | 8.526.328 | 8.526.348 | 8.526.368 | 8.526.388 |
| SAX | 10 | 8.526.309 | 8.526.329 | 8.526.349 | 8.526.369 | 8.526.389 |
| SCX | 10 | 8.526.310 | 8.526.330 | 8.526.350 | 8.526.370 | 8.526.390 |
| **Type** / *Type* | | **Dimension** / *Dimension* | | | | |
| | µm | 10 x 0.4 cm | 12.5 x 0.4 cm | 15 x 0.4 cm | 20 x 0.4 cm | 25 x 0.4 cm |
| Silica | 5 | 8.526.400 | 8.526.420 | 8.526.440 | 8.526.460 | 8.526.480 |
| ODS3 | 5 | 8.526.401 | 8.526.421 | 8.526.441 | 8.526.461 | 8.526.481 |
| C-8 | 5 | 8.526.402 | 8.526.422 | 8.526.442 | 8.526.462 | 8.526.482 |
| PAC | 5 | 8.526.403 | 8.526.423 | 8.526.443 | 8.526.463 | 8.526.483 |
| | | | | | | |
| Silica | 10 | 8.526.404 | 8.526.424 | 8.526.444 | 8.526.464 | 8.526.484 |
| ODS | 10 | 8.526.405 | 8.526.425 | 8.526.445 | 8.526.465 | 8.526.485 |
| ODS2 | 10 | 8.526.406 | 8.526.426 | 8.526.446 | 8.526.466 | 8.526.486 |
| ODS3 | 10 | 8.526.407 | 8.526.427 | 8.526.447 | 8.526.467 | 8.526.487 |
| PAC | 10 | 8.526.408 | 8.526.428 | 8.526.448 | 8.526.468 | 8.526.488 |
| SAX | 10 | 8.526.409 | 8.526.429 | 8.526.449 | 8.526.469 | 8.526.489 |
| SCX | 10 | 8.526.410 | 8.526.430 | 8.526.450 | 8.526.470 | 8.526.490 |

**Novafix™ Cartridge PARTISIL** *Cartouches Novafix™ PARTISIL*

| Type / *Type* | | Dimension / *Dimension* | | |
|---|---|---|---|---|
| | µm | 7.5 x 0.4 cm | 15 x 0.4 cm | 25 x 0.4 cm |
| Silica | 5 | 8.526.500 | 8.526.520 | 8.526.540 |
| ODS3 | 5 | 8.526.501 | 8.526.521 | 8.526.541 |
| C-8 | 5 | 8.526.502 | 8.526.522 | 8.526.542 |
| PAC | 5 | 8.526.503 | 8.526.523 | 8.526.543 |
| | | | | |
| Silica | 10 | 8.526.504 | 8.526.524 | 8.526.544 |
| ODS | 10 | 8.526.505 | 8.526.525 | 8.526.545 |
| ODS2 | 10 | 8.526.506 | 8.526.526 | 8.526.546 |
| ODS3 | 10 | 8.526.507 | 8.526.527 | 8.526.547 |
| PAC | 10 | 8.526.508 | 8.526.528 | 8.526.548 |
| SAX | 10 | 8.526.509 | 8.526.529 | 8.526.549 |
| SCX | 10 | 8.526.510 | 8.526.530 | 8.526.550 |

# TSK Gel Reverse Phase Analylical Columns

## *Colonnes analytiques à phase inversée TSK*

**Properties of silica-based TSK-GEL RPC columns** — *Propriétés des colonnes à phase inversée TSK*

| Column | Functional Group | Enc-capped | % Carbon | Particel Size µm | Pore size µm | Exclusion limit (DA) |
|---|---|---|---|---|---|---|
| ODS-80M | C18 alkyl, monomeric | Yes | 15% | 5, 10, 20 | 80 | 100-6.000 |
| ODS-80S | C18 alkyl, monomeric | Yes | 15% | 5, 10, 20 | 80 | 100-6.000 |
| OCTYL-80TM | C8 alkyl, monomeric | Yes | 11% | 5 | 80 | 10.000 |
| CN-80TM | CN, monomeric | Yes | 8 % | 5 | 80 | 10.000 |
| SUPER-ODS | C18 alkyl, monomeric | Yes | 8 % | 2 | 110 | 20.000 |
| SUPER-Octyl | C18 alkyl, monomeric | Yes | 5 % | 2 | 110 | 20.000 |
| SUPER-Phenyl | Phenyl, polymeric | Yes | 3 % | 2 | 110 | 20.000 |
| ODS-120T | C18 alkyl, monomeric | Yes | 22 % | 5, 10, 20 | 120 | 100-10.000 |
| ODS-120A | C18 alkyl, monomeric | No | 22 % | 5, 10 | 120 | 100-10.000 |
| TMS-250 | C1 alkyl, monomeric | Yes | 5 % | 10 | 250 | 100-200.000 |
| OligoDNA RP | C18 alkyl, monomeric | No | 10 % | 5 | 250 | up to 165.000 |

**Analytical columns TSK Reverse Phase, Super-ODS** — *Colonnes analytiques à phase inversée, Super-ODS*

| TSK Gel | Inner Ø *Ø int.* mm | Length *Longueur* mm | Particel size *Particules* µm | Order No. *N° de code* |
|---|---|---|---|---|
| ODS-80TS 80A | 2.0 | 15 | 5 | **8.526.600** |
| ODS-80TS 80A | 2.0 | 25 | 5 | **8.526.601** |
| ODS-80TS 80A | 4.6 | 7.5 | 5 | **8.526.602** |
| ODS-80TS 80A | 4.6 | 15 | 5 | **8.526.603** |
| ODS-80TS 80A | 4.6 | 25 | 5 | **8.526.604** |
| ODS-80TM 80A | 4.6 | 7.5 | 5 | **8.526.605** |
| ODS-80TM 80A | 4.6 | 15 | 5 | **8.526.606** |
| ODS-80TM 80A | 4.6 | 25 | 5 | **8.526.607** |
| Octyl-80TS 80A | 4.6 | 15 | 5 | **8.526.608** |
| Octyl-80TS 80A | 4.6 | 25 | 5 | **8.526.609** |
| CN-80TS 80A | 4.6 | 15 | 5 | **8.526.610** |
| CN-80TS 80A | 4.6 | 25 | 5 | **8.526.611** |
| ODS-120A 120A | 4.6 | 15 | 5 | **8.526.612** |
| ODS-120A 120A | 4.6 | 25 | 5 | **8.526.613** |
| ODS-120T 120A | 2;0 | 15 | 5 | **8.526.614** |
| ODS-120T 120A | 2,0 | 25 | 5 | **8.526.615** |
| ODS-120T 120A | 4,6 | 15 | 5 | **8.526.616** |
| ODS-120T 120A | 4,6 | 25 | 5 | **8.526.617** |
| TMS-250 250A | 4,6 | 7,5 | 10 | **8.526.618** |

**Guard columns TSK Gel Reverse Phase** — *Précolonnes à phase inversée TSK*

| TSK Gel | Inner Ø *Ø int.* mm | Length *Longueur* mm | Particel size *Particules* µm | Order No. *N° de code* |
|---|---|---|---|---|
| ODS-80TS, Guard Cartridge, pk 3 | 3,2 | 5 | 1,5 | **8.526.620** |
| Cartridge Holder | 3,2 | | 1,5 | **8.526.621** |

**Ultrarapid columns TSKgel Super-ODS,** Analytical and preparative column specifications, in reverse phase — ***Colonnes ultrapides Super-ODS*** *analytiques et préparatives à phase inversée*

| TSK Gel | Inner Ø *Ø int.* mm | Length *Longueur* mm | Particel size *Particules* µm | Order No. *N° de code* |
|---|---|---|---|---|
| Super-ODS, 110 A | 4,6 | 5 | 2 | **8.526.630** |
| Super-ODS, 110 A | 4,6 | 10 | 2 | **8.526.631** |
| Super-Octyl, 110 A | 4,6 | 5 | 2 | **8.526.632** |
| Super-Octyl, 110 A | 4,6 | 10 | 2 | **8.526.633** |
| Super-Phenyl, 110 A | 4,6 | 5 | 2 | **8.526.634** |
| Super-Pheny, 110 A | 4,6 | 10 | 2 | **8.526.635** |
| Super-ODS Guard filter | 4,0 | 2,6 | For Super-ODS, Phenyl and Octyl 2 µm pore size | **8.526.640** |
| Super-ODS Guard filter holder | 10 | 2,6 | For P/N 18207 | **8.526.645** |





**Hamilton PRP-1 100A reverse Phase analytical columns**

***Colonnes analytiques à phase inversée Hamilton PRP-1 100A***

| Inner Ø x Length<br>*Ø int. x Longueur*<br>mm | Particel size<br>*Particules*<br>3 µm | 5 µm | 7 µm | 10 µm |
|---|---|---|---|---|
| 1.0 x 50 | - | 8.526.720 | 8.526.740 | 8.526.760 |
| 1.0 x 100 | - | 8.526.721 | 8.526.741 | 8.526.761 |
| 1.0 x 150 | 8.526.702 | 8.526.722 | 8.526.742 | 8.526.762 |
| 1.0 x 250 | | 8.526.723 | 8.526.743 | 8.526.763 |
| | | | | |
| 2.1 x 50 | 8.526.704 | - | 8.526.744 | - |
| 2.1 x 100 | 8.526.705 | 8.526.725 | - | - |
| 2.1 x 150 | 8.526.706 | 8.526.726 | - | 8.526.766 |
| 2.1 x 150 * | - | 8.526.727 | - | - |
| 2.1 x 250 | - | 8.526.728 | - | 8.526.768 |
| 2.3 x 25 | - | | 8.526.749 | - |
| | | | | |
| 4.1 x 50 | 8.526.710 | 8.526.710 | - | - |
| 4.1 x 100 | 8.526.711 | 8.526.711 | - | 8.526.711 |
| 4.1 x 150 | 8.526.712 | 8.526.712 | 8.526.712 | 8.526.712 |
| 4.1 x 250 | - | - | 8.526.713 | 8.526.713 |
| 4.6 x 100 * | - | 8.526.714 | - | - |
| 4.6 x 150 * | - | 8.526.715 | - | - |
| 4.6 x 250 * | - | 8.526.716 | - | - |

| Inner Ø x Length<br>*Ø int. x Longueur*<br>mm | Particel size<br>*Particules*<br>5 µm | 7 µm | 10 µm | 12 - 20 µm |
|---|---|---|---|---|
| 7.0 x 100 | - | - | 8.526.840 | 8.526.860 |
| 7.0 x 300 | - | - | - | 8.526.861 |
| 7.0 x 305 | 8.526.802 | 8.526.822 | 8.526.842 | - |
| 10.0 x 100 | 8.526.803 | - | 8.526.843 | - |
| 10.0 x 150 | - | - | 8.526.844 | - |
| 10.0 x 250 | - | 8.526.825 | 8.526.845 | - |
| 21.5 x 150 * | - | - | 8.526.846 | 8.526.866 |
| 21.5 x 250 * | - | 8.526.827 | 8.526.847 | 8.526.867 |
| | | | | |
| 30.0 x 300 | - | - | - | 8.526.868 |
| 50.8 x 100 | - | - | - | 8.526.869 |
| 50.8 x 150 | - | - | - | 8.526.870 |
| 50.8 x 250 | - | - | 8.526.851 | 8.526.871 |
| 101.6 x 250 | - | - | - | 8.526.872 |

* PEEK Hardware

**Hamilton PRP-1 Guard Columns**

***Précolonnes Hamilton PRP-1***

| | For Steel columns<br>*Pour colonnes en acier inox* | For PEEK Columns<br>*Pour colonnes PEEK* |
|---|---|---|
| Starter Kits (1 holder, 2 cartridges)<br>*Kits de démarrage (1 support et 2 cartouches)* | 8.526.880 | 8.526.890 |
| Replacement Cartridges (5/pk)<br>*Cartouches de rechange (paquet de 5)* | 8.526.881 | 8.526.891 |

**Hamilton PRP-3 Reversed phase analytical columns**

***Colonnes analytiques à phase inversée Hamilton PRP-3***

| Inner Ø x Length<br>*Ø int. x Longueur*<br>mm | Particel size<br>*Particules*<br>3 µm | 10 µm | 12 µm |
|---|---|---|---|
| 1.0 x 50 | - | 8.256.920 | - |
| 1.0 x 100 | - | 8.256.921 | - |
| 1.0 x 150 | - | 8.256.922 | - |
| 1.0 x 250 | - | 8.256.923 | - |
| | | | |
| 2.1 x 150 | 8.256.904 | 8.256.924 | - |
| 4.1 x 50 | 8.256.905 | 8.256.925 | - |
| 4.1 x 100 | 8.256.906 | - | |
| 4.1 x 150 | 8.256.907 | 8.256.927 | - |
| 4.1 x 250 | - | 8.256.928 | - |
| | | | |
| 4.6 x 150 * | - | 8.256.929 | - |
| 4.6 x 250 * | - | 8.256.930 | - |
| | | | |
| 7.0 x 305 | - | 8.256.931 | - |
| 10.0 x 250 | - | 8.256.932 | - |
| 21.5 x 250 | - | - | 8.256.953 |

* PEEK Hardware

**Hamilton PRP-3 Guard Columns**

***Précolonnes Hamilton PRP-3***

| | For Steel columns<br>*Pour colonnes en acier inox* | For PEEK Columns<br>*Pour colonnes PEEK* |
|---|---|---|
| Starter Kits (1 holder, 2 cartridges)<br>*Kits de démarrage (1 support et 2 cartouches)* | 8.256.980 | 8.256.991 |
| Replacement Cartridges (5/pk)<br>*Cartouches de rechange (paquet de 5)* | 8.256.981 | 8.256.991 |

**Hamilton PRP-X400 Analysis for Glifosate in drinking waters**

***Colonnes analytiques Hamilton PRP-X400 pour Glifosates dans les eaux potables***

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| PRP-X400 7 µm 150 x 2.1 mm | 8.257.000 |
| PRP-X400 7 µm 150 x 4.1 mm | 8.257.001 |
| PRP-X400 7 µm 250 x 4.1 mm | 8.257.002 |
| PRP-X400 7 µm 250 x 4.6 mm (PEEK) | 8.257.003 |
| Guard Columns Starter Kit (Holder + 2 Cartridges) PEEK<br>Starter Kits (1 holder, 2 cartridges)<br>*Kits de démarrage (1 support et 2 cartouches)- PEEK* | 8.257.004 |
| Replacement cartridges (5 p/k) –PEEK<br>*Cartouches de rechange (paquet de 5)* | 8.257.005 |
| Guard Columns Starter Kit for analysis of Glifosate<br>*Kit de démarrage avec précolonnes pour l'analyse des Glifosates* | 8.257.006 |
| Replacement cartridges (5 p/k) for analysis of Glifosate<br>*Cartouches de rechange (paquet de 5) pour l'analyse des Glifosates* | 8.257.007 |





### Hamilton PRP-X110 Anion Exchange HPLC Columns

*Colonnes ioniques échangeuses d'anions Hamilton PRP-X110*

| Inner Ø x Length<br>*Ø int. x Longueur*<br>mm | Particel size<br>*Particules*<br>3 µm | <br><br>7 µm |
|---|---|---|
| 1.0 x 50 | - | **8.257.020** |
| 1.0 x 100 | - | **8.257.021** |
| 1.0 x 150 | - | **8.257.022** |
| 1.0 x 250 | - | **8.257.023** |
| 2.1 x 100 | - | **8.257.024** |
| 2.1 x 150 | - | **8.257.025** |
| 2.1 x 250 | - | **8.257.026** |
| 4.1 x 100 | **8.257.017** | **8.257.027** |
| 4.1 x 150 | **8.257.018** | **8.257.028** |
| 4.1 x 250 | - | **8.257.029** |
| 4.6 x 100 * | - | **8.257.030** |
| 4.6 x 150 * | - | **8.257.031** |
| 4.6 x 250 * | - | **8.257.032** |

* PEEK Hardware

### Hamilton PRP-X110S Anion Exchange HPLC Columns

*Colonnes ioniques échangeuses d'anions Hamilton PRP-X110S*

| Inner Ø x Length<br>*Ø int. x Longueur*<br>mm | Particel size<br>*Particules*<br>7 µm |
|---|---|
| 2.1 x 100 | **8.257.040** |
| 2.1 x 150 | **8.257.041** |
| 2.1 x 250 | **8.257.042** |
| | |
| 4.1 x 100 | **8.257.043** |
| 4.1 x 150 | **8.257.044** |
| 4.1 x 250 | **8.257.045** |
| 4.6 x 100 * | **8.257.046** |
| 4.6 x 150 * | **8.257.047** |
| 4.6 x 250 * | **8.257.048** |

* PEEK Hardware

### Hamilton PRP-X110 Guard Columns

*Précolonnes anioniques Hamilton PRP-X110*

| | For Steel columns<br>*Pour colonnes en acier inox* | For PEEK Columns<br>*Pour colonnes PEEK* |
|---|---|---|
| Starter Kits (1 holder, 2 cartridges)<br>*Kits de démarrage (1 support et 2 cartouches)* | **8.257.080** | **8.257.090** |
| Replacement Cartridges (5/pk)<br>*Cartouches de rechange (paquet de 5)* | **8.257.081** | **8.257.091** |

## PEEK™ Tubing for High-pressure applications

## *Tubes PEEK™ pour travaux en haute-pression*

**PEEK tubing 1/16'' Outer Ø x 5'** — ***PEEK-tubes 1/16" Ø ext. x 5'***

| Inner Ø<br>*Ø int.* | Colour<br>*Couleur* | psi | bar | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.00025'' (65 µm) | ○ | 7,000 psi | (483 bar)* | **8.257.100** |
| 0.004'' (100 µm) | ● | 7,000 psi | (483 bar)* | **8.257.101** |
| 0.005'' (125 µm) | ● | 7,000 psi | (483 bar)* | **8.257.102** |
| 0.006'' (150 µm) | ● | 7,000 psi | (483 bar)* | **8.257.103** |
| 0.007'' (175 µm) | ● | 7,000 psi | (483 bar)* | **8.257.104** |
| 0.010'' (0.25 mm) | ○ | 7,000 psi | (483 bar)* | **8.257.105** |
| 0.010'' (0.25 mm) | ● | 7,000 psi | (483 bar)* | **8.257.106** |
| 0.015'' (0.40 mm) | | 7,000 psi | (483 bar)* | **8.257.107** |
| 0.020'' (0.50 mm) | ● | 7,000 psi | (483 bar)* | **8.257.108** |
| 0.030'' (0.75 mm) | ● | 7,000 psi | (483 bar)* | **8.257.109** |
| 0.040'' (1.00 mm) | ○ | 5,000 psi | (345 bar)* | **8.257.110** |
| 0.055'' (1.40 mm) | ○ | 500 psi | (34 bar)* | **8.257.111** |

**PEEK tubing 1/8'' Outer Ø x 5'** — ***PEEK-tubes 1/8" Ø ext. x 5'***

| Inner Ø<br>*Ø int.* | Colour<br>*Couleur* | psi | bar | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.062'' (1.60 mm) | ○ | 4,000 psi | (276 bar)* | **8.257.120** |
| 0.080'' (2.00 mm) | ○ | 3,000 psi | (207 bar)* | **8.257.121** |

**PEEK tubing 1.8 mm Outer Ø x 5'** — ***PEEK-tubes 1.8" Ø ext. x 5'***

| Inner Ø<br>*Ø int.* | Colour<br>*Couleur* | psi | bar | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.010'' (0.25 mm) | ○ | 7,000 psi | (483 bar)* | **8.257.130** |
| 0.020'' (0.50 mm) | ○ | 7,000 psi | (483 bar)* | **8.257.131** |
| 0.030'' (0.75 mm) | ○ | 7,000 psi | (483 bar)* | **8.257.132** |
| 0.042'' (1.05 mm) | ○ | 5,000 psi | (345 bar)* | **8.257.133** |
| 0.055'' (1.40 mm) | ○ | 500 psi | (34 bar)* | **8.257.134** |

**Polymer Tubing Cutters,** for 1/16'', 1/8'', 3/16'', 1/4''and 5/16 OD tubing

***Coupe-tubes en polymère,*** *pour tubes 1/16", 1/8", 3/16", 1/4"et 5/16 de dia. extérieur*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Standard Polymer Tubing Cutter* for 1/16'' and 1/8'' OD tubing<br>*Coupe-tube standard pour tube de 1/16" et 1/8" dia. ext.* | **8.257.140** |
| Large Bore Polymer Tubing Cutter* for 3/16''– 5/16'' OD tubing<br>*Coupe-tube pour tube à large ouverture 3/16"– 5/16" dia. ext.* | **8.257.141** |
| Pack of 5 Replacement Blades for tubing cutters<br>*Paquet de 5 lames de remplacement pour les coupe-tubes* | **8.257.142** |







## ChromBox Kit
## *ChromBox Kit*

**ChromBox Kit**
The ChromBox is an all-purpose analytical spare parts kit for start-up and standard use in all HPLC systems. It contains the most often used spare parts made of high quality SS 316L, PEEK, and PTFE as well the necessary tools. See below the content details

***ChromBox kit***
*Ce kit trés efficace renferme toutes pièces nécessaires à la mise en service et à l'entretien de toutes les chaines HPLC, tels que les raccords PEEK et en acier de trés haute qualité, aussi bien que les tubes capillaires en acier inoxydable 316, PEEK et en téflon, ainsi que l'outillage utile. Voir ci-après le détail du contenu*

| **Description**<br>***Description*** | **Quantity**<br>***Emballage*** | **Order No.**<br>***N° de code*** |
|---|---|---|
| ChromBox kit, complete for HPLC maintenance as per description below<br>*ChromBox, boite complète de maintenance pour HPLC, suivant descriptif* | 1 | **8.257.200** |
| Content details and spare parts<br>*Détails du contenu et pièces de rechange* | | |
| Union, PEEK, 0.25 mm bore, body only | 1 | **8.257.210** |
| Tubing Elbow 90° | 1 | **8.257.211** |
| Tubing Elbow 180° | 1 | **8.257.212** |
| Ferrules, PEEK, double 1/16" | 10 | **8.257.213** |
| Fittings, PEEK, one-piece natural, 10-32 | 5 | **8.257.214** |
| Nut, PEEK, vex-head long, 10-32 | 5 | **8.257.215** |
| Nut, PEEK, hand-tight, 10-32 | 5 | **8.257.216** |
| Filter, PEEK, In-line, complete, frit PAT PEEK-encased 5µm | 1 | **8.257.217** |
| Tool, tubing plier for metal tubing | 1 | **8.257.218** |
| Tool, Clean-Cut tubing cutter | 1 | **8.257.219** |
| Tool, ValvTool _" and 5/16" open wrench | 1 | **8.257.220** |
| Tool, file | 1 | **8.257.221** |
| Tool, wrench _" x 5/16" | 2 | **8.257.222** |
| Tool, Tweezers, polypropylene, forceps | 1 | **8.257.223** |
| Filter, SS, last drop 2µm | 1 | **8.257.224** |
| Tubing clips | 2 | **8.257.225** |
| Nut, SS, X-long, Valco type, 10-32 | 5 | **8.257.226** |
| Nut, SS, 1/16", Medium, 10-32 | 5 | **8.257.227** |
| Tubing, PEEK, 1/16" OD x 0.25 mm ID, blue striped, 3m / pack | 1 | **8.257.228** |
| Tubing, PEEK, 1/16" OD x 0.50 mm ID, orange striped, 3m / pack | 1 | **8.257.229** |
| Tubing, SS, 1/16" OD x 0.25 mm ID, 3m / pack | 1 | **8.257.230** |
| Tubing, SS, 1/16" OD x 0.50 mm ID, 3m / pack | 1 | **8.257.231** |
| Tubing, PTFE, 1/8" OD x 1.59 mm ID, 3m / pack | 1 | **8.257.232** |
| Ferrules, SS, Valco type 1/16" | 10 | **8.257.233** |
| Union, SS, bore 0.50 mm, 1/16", 10-32, complete | 1 | **8.257.234** |

## Safe Fluid Supply - with Safety Caps

*Prélèvement sûr de solvants avec les bouchons de sécurité „Safety Caps“*

**Safe Fluid Supply - with Safety Caps**
Vapours and gases of hazardous liquids can cause damage to your health and to your environment. Bottles and containers with unsafe contents always have to be sealed reliably to avoid health hazards and environment pollution. SCAT Safety Caps avoid unfiltered escape of hazardous vapours and keep your containers sealed safely - especially during liquid extraction

***Prélèvement sûr de solvants avec les bouchons de sécurité „Safety Caps »***
*Pendant le travail avec des solvants dans le laboratoire HPLC, on assiste à la formation de vapeurs nuisibles pour la santé qui sont la plupart du temps dues à une étanchéité insuffisante des réservoirs et écipients pour résidus. En raison de consignes de sécurité plus strictes, la charge permanente de l'air est un thème tout à fait d'actualité pour ce qui est de l'environnement et de la santé des utilisateurs*

**Safety Caps (for GL45 bottles)**
Safe venting for pressure equalization by integrated air valve during the solvent supply. Protection against hazardous solvent vapours

***Bouchons de sécurité (pour bouteilles avec filetage GL45) e****n PTFE et PP haut de gamme. Cela permet de garantir une résistance maximale, même aux solvants agressifs. Le système spécial d'étanchéité ferme les récipients de solvants de façon fiable et sûre*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Safety Cap I, GL 45, 1 port for 3.2mm (1/8“) OD tubing<br>*Bouchon type 1, GL 45, 1 entrée pour tuyau de 3.2 mm (1/8”)* | **8.257.300** |
| Safety Cap II, GL 45, 2 ports for 3.2mm (1/8“) OD tubing<br>*Bouchon type 2, GL 45, 2 entrées pour tuyau de 3.2 mm (1/8”)* | **8.257.301** |
| Safety Cap III, GL 45, 3 ports for 3.2mm (1/8“) OD tubing<br>*Bouchon type 3, GL 45, 3 entrées pour tuyau de 3.2 mm (1/8”)* | **8.257.302** |
| Safety Cap I, GL 45 for 3/16“ tubing, 1 port for 4.7mm (3/16“) OD tubing<br>*Bouchon type 1, GL 45, 1 entrée pour tuyau de 4.7 mm (3/16”)* | **8.257.303** |


**8.257.30***

**Safety Caps with Shut-off (for GL45 Bottles)**
Remove or exchange your reservoirs easily by using the shut-off to stop the liquid flow. Especially recommended for HPLC use. Available with multiple connectors. Standard cap size GL45 - adapters for other sizes are available!

***Bouchon de sécurité avec robinet d'arrêt (GL45)***
*Les bouchons de sécurité à robinet d'arrêt facilitent le remplacement rapide des réservoirs et empêchent les inclusions d'air dans le tuyau flexible. L'ensemble des raccords à collerette et bagues bicônes (Ferrules) pour les tuyaux flexibles diam. ext. = 3,2 mm font partie intégrante de la livraison. L'idéal pour les réparations et la maintenance du système HPLC*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Safety Cap I with one Shut-Off, GL 45, 1 port for 3.2mm (1/8“) OD tubing<br>*Bouchon type 1 à un robinet d’arrêt, GL 45, 1 entrée pour tuyau de 3.2 mm (1/8”)* | **8.257.310** |
| Safety Cap II with 2 Shut-Offs, GL 45, 2 ports for 3.2mm (1/8“) OD tubing<br>*Bouchon type 2 à deux robinets d’arrêt, GL 45, 2 entrées pour tuyau de 3.2 mm (1/8”)* | **8.257.311** |
| Safety Cap III with 3 Shut-Offs, GL 45, 3 ports for 3.2mm (1/8“) OD tubing<br>*Bouchon type 3 à trois robinets d’arrêt, GL 45, 3 entrées pour tuyau de 3.2 mm (1/8”)* | **8.257.312** |


**8.257.31***

**Safety Cap for GL80 thread wide neck bottles, s**afe solvent supply, now also available for the new SCHOTT wide neck bottles with GL80 thread.

***Bouchon de sécurité pour bouteilles avec filetage GL80*** *pour des bouteilles GL80 maintenant aussi pour les nouvelles bouteilles à col large fileté GL80 de SCHOTT. Avec la soupape de ventilation intégrée, dans les exécutions différentes de façon accessible*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Safety Cap for GL 80 wide neck bottles,<br>1 port for 1.6mm (1/16“), 2.3mm and 3.2mm (1/8“) tubing<br>*Bouchon de sécurité à filetage GL 80,*<br>*1 entrée pour tuyau de 1.6mm (1/16“), 2.3mm et 3.2mm (1/8)* | **8.257.320** |
| Safety Cap for GL80 wide neck bottles,<br>2 ports for 1.6mm (1/16“), 2.3mm and 3.2mm (1/8“) tubing<br>B*ouchon de sécurité à filetage GL 80,*<br>*2 entrées pour tuyau de 1.6mm (1/16“), 2.3mm et 3.2mm (1/8)* | **8.257.321** |
| Safety Cap for GL80 wide neck bottles,<br>3 ports for 1.6mm (1/16“), 2.3mm and 3.2mm (1/8“) tubing<br>*Bouchon de sécurité à filetage GL 80,*<br>*3 entrées pour tuyau de 1.6mm (1/16“), 2.3mm et 3.2mm (1/8* | **8.257.322** |


**8.257.32***



**8.257.330**



**8.257.331**

**Air Valve and air membrane filter for Safety Caps**
Appropriate for all Safety Caps. Recommended service life: 6 months. The air filter with PTFE membrane can simply be fixed on the air valve and Keeps the venting air clean, avoid dust contamination of solvents

***Vanne d'air et filtre à membrane pour bouchons de sécurité***
*Adaptée pour tous les bouchons. Recommandée pour la maintenance de 6 mois. Le filtre à membrane en PTFE est fixé tout simplement sur la vanne d'air et évite la contamination des solvents par la poussière*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Air valve for safety caps<br>*Vanne d'air pour les bouchons de sécurité* | **8.257.330** |
| Air filters with PTFE membrane (pack of 10 pieces)<br>*Filtres à membrane en PTFE, pour vane d'air (en paquet de 10)* | **8.257.331** |



**8.257.34***

**Safety Cap for Ground Neck Bottles 29/32**
For ground neck bottles with 29/32mm diameter. With counter nut for easy disconnecting and removal even after long time of use. Ports for tubing with 1.6 mm (1/16"), 2.3 mm and 3.2 mm (1/8")

***Bouchon de sécurité pour bouteilles à col rodé RN 29/32mm*** *dispose en outre d'un écrou de desserrage qui permet une ouverture facile de la bouteille, même après un temps d'utilisation assez long. Ici aussi, la soupape de ventilation est déjà intégrée. L'ensemble des raccords à collerette et bagues bicônes pour les tuyaux de diam. 1.6 mm (1/16"), 2.3 mm et 3,2 mm (1/8") font partie intégrante de la livraison*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Safety Cap for NS 29/32 bottles,<br>2 ports for 1.6mm (1/16"), 2.3mm and 3.2mm (1/8") tubing<br>*Bouchon de sécurité à rodage 29/32,<br>2 entrées pour tuyau de 1.6mm (1/16"), 2.3mm et 3.2mm (1/8)* | **8.257.340** |



**8.257.35***

**Adapter with ground joint 29/32 to GL 45 thread**
Exchange your solvent reservoirs easily by using this adapter on GL 45 thread bottles, together with the safety cap for ground neck bottles (see above 8.257.340)

***Adaptateur à rodage normalisé 29/32 à filetage GL45***
*Echangez facilement vos réservoirs de solvant en utilisant l'adaptateur sur des bouteilles à filetage GL45, avec le bouchon de sécurité à rodage normalisé (voir ci-dessus 8.257.340)*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Adapter with ground joint 29/32 to GL 45 thread bottle,<br>core material: PTFE with cap made of PP<br>*Adaptateur à rodage normalisé 29/32 pour flacon à filetage GL45,<br>en PTFE avec bouchon en PP* | **8.257.350** |



**8.257.36***

**Adapter with GL 45 thread to NS 29/32**
For use with GL safety caps on bottles with a 29/32 ground neck. With counter nut for easy disconnecting and removal even after long time of use

***Adaptateur de filetage GL45 à rodage normalisé 29/32.*** *Pour utilisation des bouchons de sécurité à filetage GL45 sur des bouteilles à col rodé 29/32, dispose en outre d'un écrou de desserrage qui permet une ouverture facile de la bouteille, même après un temps d'utilisation assez long*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Adapter with GL 45 thread to NS 29/32 bottle,<br>core material: PTFE with cap made of PP<br>*Adaptateur à filetage GL45 pour flacon à col rodé 29/32,<br>en PTFE avec bouchon en PP* | **8.257.360** |



**8.257.37***

**PTFE Distance Rings for GL45 Safety Caps**
Distance Rings for Safety Caps. For short neck bottles

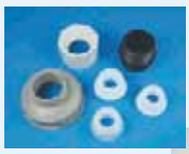
***Joints d'espace en PTFE***
*Pour bouchons de sécurité à filetage GL45. Pour flacons à col court*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| PTFE distance ring, box of 1<br>*Joint d'espace en PTFE, vendu par pièce* | **8.257.370** |

**Thread adapters**
Suit Safety Caps to nearly any kind of bottle or container. Simply choose a qualified adapter for your thread size

***Adaptateurs à filetage***
*Destinés à l'adaptation des bouchons de sécurité sur tout type de flacon ou de bouteille. Sélectionnez tout simplement votre taille de filetage*

| Container thread<br>*Filtage du flacon* | Safety cap<br>*Bouchon de sécurité* | Material and colour<br>*Matière et couleur* | Order No.<br>*N° de code* |
|---|---|---|---|
| GL 32 | GL 45 | PTFE, white | **8.257.380** |
| GL 32 | GL 45 | PP, natural | **8.257.381** |
| GL 38 | GL 45 | PTFE, white | **8.257.382** |
| GL 38 | GL 45 | PP, natural | **8.257.383** |
| GL 50/ S40 | GL 45 | PTFE, white | **8.257.384** |
| GL 50/ S40 | GL 45 | PP, natural | **8.257.385** |
| GL 45 | S 55 | PTFE, white | **8.257.386** |
| GL 45 | S 55 | PP, natural | **8.257.387** |
| S 51 | GL 45 | PP, natural | **8.257.388** |
| S 51 | S 55 | PTFE, white | **8.257.389** |
| S 51 | S 55 | PP, natural | **8.257.390** |
| S 51 | S 60 | PP, natural | **8.257.391** |
| S 55 | GL 45 | PP, natural | **8.257.392** |
| S 55 | S 60 | PP, natural | **8.257.393** |
| 2 '' BSP | S 60 (interior) | PP, grey | **8.257.394** |
| 2 '' BSP | S 60 (exterior) | PP, black | **8.257.395** |
| 2 ' fine thread | S 60 – S 65 | PP, white | **8.257.396** |
| 2 ' fine thread | TriSure Grob | PP, orange | **8.257.397** |



**8.257.38***

## Accessories and Consumables for Safety Caps

*Accessoires et Consommables pour bouchons de sécurité*

**Polypropylene Fittings**
For 1.6, 2.3 and 3.2 mm tubing (same fitting for all sizes). Please choose suitable PTFE ferrules for your tubing size separately (see below)

***Raccords en polypropylene***
*Pour tuyaux à diamètre extérieurs de 1.6 mm, 2.3 mm et 3.2 mm (même raccord pour toutes les tailles). Veuillez sélectionner séparément les ferrules en PTFE nécessaires à votre tuyau (voir en-bas)*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Polypropylene fittings, coloured in box of 10 pieces<br>*Raccords en polypropylène, colorés, en boite de 10* | **8.257.400** |


**8.257.40***

**PTFE Ferrules**
For polypropylene fittings. Please take care of correct assembling, see drawings

***Ferrules en PTFE***
*à utiliser avec les raccords en polypropylène. Pour le raccordement exact, veuillez vous référez aux schémas*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| PTFE ferrules, = 1.6 mm (1/16") in box of 10 pieces<br>*Ferrules en PTFE, = 1.6 mm (1/16"), en boite de 10* | **8.257.410** |
| PTFE ferrules, = 2.3 mm (1/16") in box of 10 pieces<br>*Ferrules en PTFE, = 2.3 mm, en boite de 10* | **8.257.411** |
| PTFE ferrules, = 3.2 mm (1/8") in box of 10 pieces<br>*Ferrules en PTFE, = 3.2 mm, en boite de 10* | **8.257.412** |


**8.257.417***

**One-Piece PTFE Fittings, with integrated Ferrule**
High chemical resistance, recommended for use with organic solvents. Also needful for Safety Caps with shut-off
(see 8.257.31* on page 549)

***Raccords PTFE en une pièce, avec ferrule intégrée***
*A haute résistance chimique, recommandés pour l'usage de solvants organiques.Trés bien adapté pour les bouchons de sécurité à robinet d'arrêt (voir 8.257.31*.à la page 549)*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| PTFE-Fitting with integrated Ferrule = 1.6mm (1/16"), Box of 10<br>*Raccords en PTFE à ferrule intégrée, = 1.6 mm (1/16"), en boite de 10* | **8.257.420** |
| PTFE-Fitting with integrated Ferrule = 2.3mm , Box of 10<br>*Raccords en PTFE à ferrule intégrée, = 2.3 mm, en boite de 10* | **8.257.421** |
| PTFE-Fitting with integrated Ferrule = 3.2mm (1/8"), Box of 10<br>*Raccords en PTFE à ferrule intégrée, = 3.2 mm (1/8"), en boite de 10* | **8.257.422** |
| PTFE-Fitting with integrated Ferrule = 6.35mm (1/4"), Box of 1 piece<br>*Raccords en PTFE à ferrule intégrée, = 6.35 mm (1/4"), en boite de 1 pièce* | **8.257.423** |
| PTFE-Fitting with integrated Ferrule = 4.76mm (3/16"), Box of 1 piece<br>*Raccords en PTFE à ferrule intégrée, = 4.76 mm (3/16"), en boite de 1 pièce* | **8.257.424** |


**8.257.42***



**8.257.43***

**Installation Wrenches for Fittings**
Available for both types of standard fittings (square and hexagon). For comfortable assembling and customizing of Safety caps

***Outil d'installation des raccords***
*Disponible pour 2 types de raccords (carrés et héxagonales), pour l'assemblage facile sur les bouchons de sécurités*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Square Box Wrench for Polypropylene Fittings (e.g. No. 8.257.400), Box of 1<br>*Outil pour raccordsen PP à tête carrée (par ex. No. 8.257.400), boite de 1 pièce* | **8.257.430** |
| Hexagon Box Wrench for Polypropylene Fittings (e.g. No. 8.257.420 to 8.257.422), Box of 1<br>*Outil pour raccordsen PP à tête héxagonale (par ex. No. 8.257.420 - 8.257.422), boite de 1 pièce* | **8.257.431** |



**8.257.44***

**PTFE Plugs for Safety Caps**
If several Safety Cap ports are temporarily not in use, you can close them with PTFE plugs. That way you maintain protection against escaping vapours

***Bouchons d'obturation pour bouchons de sécurités***
*Si plusieurs entrées sont temporairement inutilisées, ces bouchons en PTFE servent à leur fermeture et vous protégent contre les échappements de vapeurs*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| PTFE Plugs for Standard Ports, Box of 10<br>*Bouchons en PTFE pour entrées standards, en boite de 10* | **8.257.440** |
| PTFE Plugs for leak Ports, Box of 1 piece<br>*Bouchons en PTFE pour entrées de fuite, en boite de 1 pièce* | **8.257.441** |
| PTFE Plugs for exhaust filter Ports, Box of 1 piece<br>*Bouchons en PTFE pour entrées de filtre d'échappement, en boite de 1 pièce* | **8.257.442** |



**8.257.45***

**PTFE Tubing**
for HPLC, in different sizes. Available in multiple diameters and lengths, on request

***Tuyaux en PTFE***
*Pour HPLC, de différentes tailles. Disponible aussi en différents diamètres et longueurs, sur demande*

| Dimensiions<br>*Dimensions*<br>mm | Length<br>*Longueur*<br>m | Order No.<br>*N° de code* |
|---|---|---|
| 1.6 x 1.0 | 3 | **8.257.450** |
| 2.3 x 1.7 | 3 | **8.257.451** |
| 3.2 x 1.6 | 3 | **8.257.452** |



**8.257.460**

**CleanCut Tubing Cutter**
Tubing cutter with additional blade for replacement, qualified for any kind of plastic tubing. For safe, clean cutting

***Coupe-tuyau CleanCut***
*avec lame interchangeable additionnelle, pour la découpe soignée de tout type de tuyaux en plastique*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| CleanCut tubing cutte<br>*Coupe-tuyau* | **8.257.460** |



**8.257.47***

**Solvent Filters**
for 3.2mm (1/8") OD tubing. Ready for use. No tools necessary. Protect your HPLC system against contamination from solvents

***Filtres à solvant***
*Protège votre chaine HPLC contre toute contamination du solvant. Pour tuyaux de 3.2 mm. Prêt à l'emploi*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Solvent filters, PP for 3.2 mm (1/8") tubing, Box of 5<br>*Filtres à solvant, en PP pour tuyau de 3.2 mm (1/8"), en boite de 5* | **8.257.470** |
| Solvent filters, with PTFE membrane and PFA housing for 3.2 mm (1/8") tubing, Box of 5<br>*Filtres à solvant, avec membrane en PTFE et boitier en PFA de 3.2 mm (1/8"), en boite de 5* | **8.257.471** |

## Gas Chromatography Columns

### *Colonnes de Chromatographie en Phase Gazeuse*

**Witeg can supply all kind of standard and special packed or capillary GC columns according to your applications. For packed columns, please state the model and type of your instrument for adaptation**

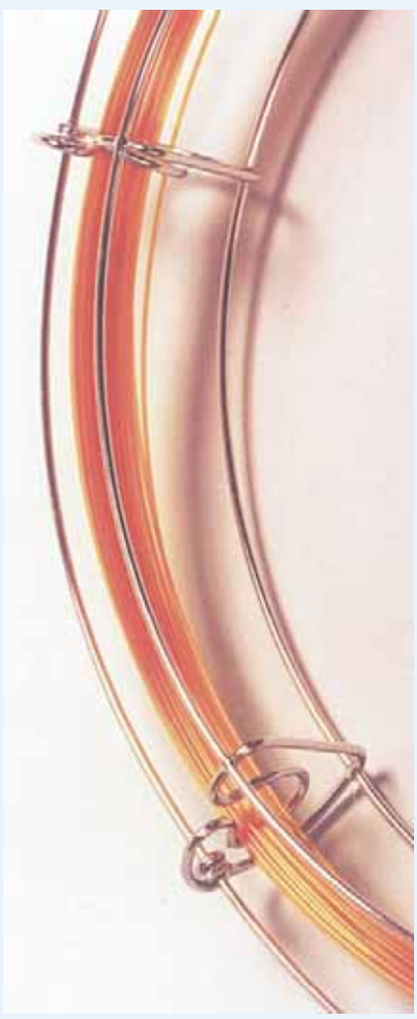
***Witeg peut livrer toutes sortes de colonnes standards ou spéciales - remplies ou capillaires – sur simple demande et selon vos applications. Pour les colonnes remplies prière svp nous indiquer le modèle et le type de votre instrument pour leur adaptation***

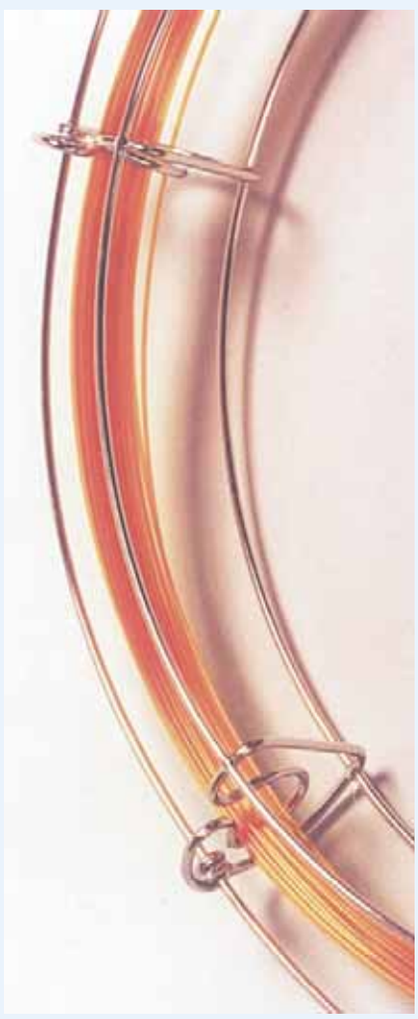
**TRACSIL TRB-1 Capillary columns**
Stationary Phase 100% dimethylpolysiloxane, cross-linked and chemically bonded columns
- 60 to 325/350 °C

***TRACSIL TRB-1 colonnes capillaires***
*Excellentes colonnes capillaires à usage général non-polaires à phase stationnaire.*
*- 60 to 325/350°C*

EQUIVALENT PHASE TO: **Agilent:** HP-1, HP-101, ULTRA-1, DB-1, **Supelco:** SPB-1, EQUITY-1, **Restek:** Rtx-1, Rtx-2887, **Varian:** CP-SIL 5CB, **SGE:** BP-1, **Alltech:** AT-1, **Macherey-Nagel:** OPTIMA-1

| **Description** | **Order No.** ***N° de code*** |
|---|---|
| Length x Internal Ø x Film thickness *Longueur x Ø int. x Epaisseur de film* | |
| 15 m x 0.25 mm x 0.10 µm | **8.257.500** |
| 15 m x 0.32 mm x 0.10 µm | **8.257.501** |
| 15 m x 0.53 mm x 0.10 µm | **8.257.502** |
| 25 m x 0.25 mm x 0.10 µm | **8.257.503** |
| 25 m x 0.32 mm x 0.10 µm | **8.257.504** |
| 25 m x 0.53 mm x 0.10 µm | **8.257.505** |
| 30 m x 0.25 mm x 0.10 µm | **8.257.506** |
| 30 m x 0.32 mm x 0.10 µm | **8.257.507** |
| 30 m x 0.53 mm x 0.10 µm | **8.257.508** |
| 10 m x 0.10 mm x 0.10 µm | **8.257.509** |
| 50 m x 0.25 mm x 0.10 µm | **8.257.510** |
| 50 m x 0.32 mm x 0.10 µm | **8.257.511** |
| 50 m x 0.53 mm x 0.10 µm | **8.257.512** |
| 60 m x 0.25 mm x 0.10 µm | **8.257.513** |
| 60 m x 0.32 mm x 0.10 µm | **8.257.514** |
| 60 m x 0.53 mm x 0.10 µm | **8.257.515** |
| 20 m x 0.10 mm x 0.10 µm | **8.257.516** |
| 12 m x 0.20 mm x 0.10 µm | **8.257.517** |
| 15 m x 0.25 mm x 0.25 µm | **8.257.520** |
| 15 m x 0.32 mm x 0.25 µm | **8.257.521** |
| 15 m x 0.20 mm x 0.15 µm | **8.257.522** |
| 25 m x 0.25 mm x 0.25 µm | **8.257.523** |
| 25 m x 0.32 mm x 0.25 µm | **8.257.524** |
| 25 m x 0.22 mm x 0.25 µm | **8.257.525** |
| 30 m x 0.25 mm x 0.25 µm | **8.257.526** |
| 30 m x 0.32 mm x 0.25 µm | **8.257.527** |
| 30 m x 0.20 mm x 0.15 µm | **8.257.528** |
| 50 m x 0.25 mm x 0.25 µm | **8.257.529** |
| 50 m x 0.32 mm x 0.25 µm | **8.257.530** |
| 60 m x 0.25 mm x 0.25 µm | **8.257.531** |
| 60 m x 0.32 mm x 0.25 µm | **8.257.532** |
| 60 m x 0.20 mm x 0.15 µm | **8.257.533** |
| 12 m x 0.20 mm x 0.25 µm | **8.257.534** |
| 15 m x 0.20 mm x 0.35 µm | **8.257.540** |
| 25 m x 0.20 mm x 0.35 µm | **8.257.541** |
| 30 m x 0.20 mm x 0.35 µm | **8.257.542** |
| 50 m x 0.20 mm x 0.35 µm | **8.257.543** |
| 60 m x 0.20 mm x 0.35 µm | **8.257.544** |
| 10 m x 0.10 mm x 0.40 µm | **8.257.550** |
| 20 m x 0.10 mm x 0.40 µm | **8.257.551** |
| 15 m x 0.25 mm x 0.50 µm | **8.257.560** |
| 15 m x 0.32 mm x 0.50 µm | **8.257.561** |
| 15 m x 0.53 mm x 0.50 µm | **8.257.562** |
| 15 m x 0.20 mm x 0.50 µm | **8.257.563** |
| 25 m x 0.25 mm x 0.50 µm | **8.257.564** |
| 25 m x 0.32 mm x 0.50 µm | **8.257.565** |
| 25 m x 0.53 mm x 0.50 µm | **8.257.566** |
| 25 m x 0.20 mm x 0.50 µm | **8.257.567** |
| 30 m x 0.25 mm x 0.50 µm | **8.257.568** |
| 30 m x 0.32 mm x 0.50 µm | **8.257.569** |
| 30 m x 0.53 mm x 0.50 µm | **8.257.570** |
| 30 m x 0.20 mm x 0.50 µm | **8.257.571** |
| 50 m x 0.25 mm x 0.50 µm | **8.257.572** |





**TRACSIL TRB-1 Capillary columns**
Stationary Phase 100% dimethylpolysiloxane, cross-linked and chemically bonded columns
- 60 to 325/350 °C

***TRACSIL TRB-1 colonnes capillaires***
*Excellentes colonnes capillaires à usage général non-polaires à phase stationnaire.*
*- 60 to 325/350°C*

EQUIVALENT PHASE TO: **Agilent:** HP-1, HP-101, ULTRA-1, DB-1, **Supelco:** SPB-1, EQUITY-1, **Restek:** Rtx-1, Rtx-2887, **Varian:** CP-SIL 5CB, **SGE:** BP-1, **Alltech:** AT-1, **Macherey-Nagel:** OPTIMA-1

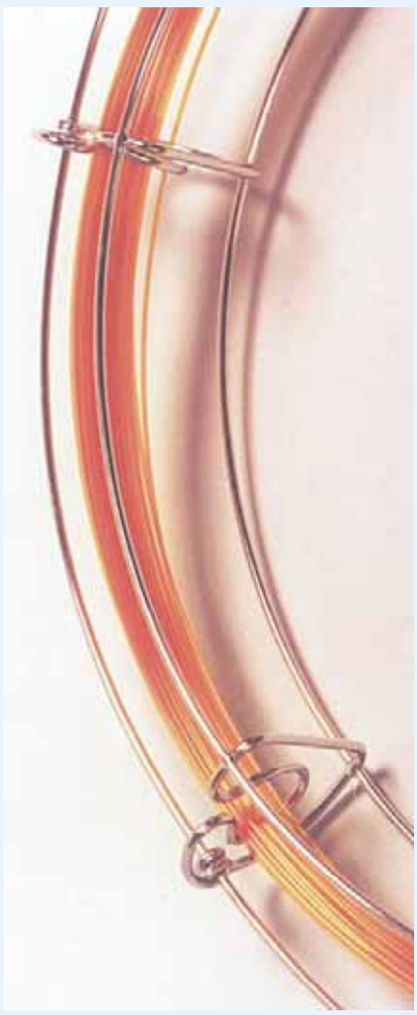
| **Description**<br>***Description*** | **Order No.**<br>***N° de code*** |
|---|---|
| Length x Internal Ø x Film thickness<br>*Longueur x Ø int. x Epaisseur de film* | |
| 50 m x 0.32 mm x 0.50 µm | **8.257.573** |
| 50 m x 0.53 mm x 0.55 µm | **8.257.574** |
| 60 m x 0.25 mm x 0.50 µm | **8.257.575** |
| 60 m x 0.32 mm x 0.50 µm | **8.257.576** |
| 60 m x 0.53 mm x 0.50 µm | **8.257.577** |
| 60 m x 0.20 mm x 0.50 µm | **8.257.578** |
| 30 m x 0.53 mm x 0.88 µm | **8.257.580** |
| 10 m x 0.53 mm x 0.88 µm | **8.257.581** |
| 15 m x 0.25 mm x 1.00 µm | **8.257.590** |
| 15 m x 0.32 mm x 1.00 µm | **8.257.591** |
| 15 m x 0.53 mm x 1.00 µm | **8.257.592** |
| 25 m x 0.25 mm x 1.00 µm | **8.257.593** |
| 25 m x 0.32 mm x 1.00 µm | **8.257.594** |
| 25 m x 0.22 mm x 1.00 µm | **8.257.595** |
| 30 m x 0.25 mm x 1.00 µm | **8.257.596** |
| 30 m x 0.32 mm x 1.00 µm | **8.257.597** |
| 30 m x 0.53 mm x 1.00 µm | **8.257.598** |
| 50 m x 0.25 mm x 1.00 µm | **8.257.599** |
| 50 m x 0.32 mm x 1.00 µm | **8.257.600** |
| 60 m x 0.25 mm x 1.00 µm | **8.257.601** |
| 60 m x 0.32 mm x 1.00 µm | **8.257.602** |
| 40 m x 0.25 mm x 1.00 µm | **8.257.603** |
| 105 m x 0.25 mm x 1.00 µm | **8.257.604** |
| 25 m x 0.25 mm x 1.20 µm | **8.257.610** |
| 25 m x 0.15 mm x 1.20 µm | **8.257.611** |
| 15 m x 0.53 mm x 0.15 µm | **8.257.620** |
| 15 m x 0.20 mm x 0.15 µm | **8.257.621** |
| 30 m x 0.20 mm x 0.15 µm | **8.257.622** |
| 50 m x 0.20 mm x 0.15 µm | **8.257.623** |
| 60 m x 0.20 mm x 0.15 µm | **8.257.624** |
| 15 m x 0.53 mm x 1.50 µm | **8.257.630** |
| 25 m x 0.53 mm x 1.50 µm | **8.257.631** |
| 30 m x 0.53 mm x 1.50 µm | **8.257.632** |
| 50 m x 0.53 mm x 1.50 µm | **8.257.633** |
| 60 m x 0.53 mm x 1.50 µm | **8.257.634** |
| 25 m x 0.53 mm x 2.00 µm | **8.257.640** |
| 10m x 0.53 mm x 2.00 µm | **8.257.641** |
| 50m x 0.53 mm x 2.00 µm | **8.257.642** |
| 100 m x 0.53 mm x 2.00 µm | **8.257.643** |
| 12 m x 0.20 mm x 0.20 µm | **8.257.650** |
| 15 m x 0.53 mm x 2.65 µm | **8.257.660** |
| 30 m x 0.53 mm x 2.65 µm | **8.257.661** |
| 10 m x 0.53 mm x 2.65 µm | **8.257.662** |
| 15 m x 0.32 mm x 3.00 µm | **8.257.670** |
| 15 m x 0.53 mm x 3.00 µm | **8.257.671** |
| 25 m x 0.32 mm x 3.00 µm | **8.257.672** |
| 25 m x 0.53 mm x 3.00 µm | **8.257.673** |
| 30 m x 0.32 mm x 3.00 µm | **8.257.674** |
| 30 m x 0.53 mm x 3.00 µm | **8.257.675** |
| 50 m x 0.32 mm x 3.00 µm | **8.257.676** |
| 50 m x 0.53 mm x 3.00 µm | **8.257.677** |
| 60 m x 0.32 mm x 3.00 µm | **8.257.678** |
| 60 m x 0.53 mm x 3.00 µm | **8.257.679** |
| 100 m x 0.53 mm x 3.00 µm | **8.257.680** |
| 105 m x 0.53 mm x 3.00 µm | **8.257.681** |
| 60 m x 0.32 mm x 3.00 µm | **8.257.682** |
| 50 m x 0.20 mm x 3.00 µm | **8.257.683** |
| 15 m x 0.32 mm x 4.00 µm | **8.257.690** |
| 25 m x 0.32 mm x 4.00 µm | **8.257.691** |
| 50 m x 0.32 mm x 4.00 µm | **8.257.692** |
| 60 m x 0.32 mm x 4.00 µm | **8.257.693** |
| 15 m x 0.32 mm x 5.00 µm | **8.257.700** |

**TRACSIL TRB-1 Capillary columns**
Stationary Phase 100% dimethylpolysiloxane, cross-linked and chemically bonded columns
- 60 to 325/350 °C

***TRACSIL TRB-1 colonnes capillaires***
*Excellentes colonnes capillaires à usage général non-polaires à phase stationnaire.*
*- 60 to 325/350°C*

EQUIVALENT PHASE TO: **Agilent:** HP-1, HP-101, ULTRA-1, DB-1, **Supelco:** SPB-1, EQUITY-1, **Restek:** Rtx-1, Rtx-2887, **Varian:** CP-SIL 5CB, **SGE:** BP-1, **Alltech:** AT-1, **Macherey-Nagel:** OPTIMA-1

| **Description**<br>***Description*** | **Order No.**<br>***N° de code*** |
|---|---|
| Length x Internal Ø x Film thickness<br>*Longueur x Ø int. x Epaisseur de film* | |
| 25 m x 0.32 mm x 5.00 µm | **8.257.701** |
| 25 m x 0.53 mm x 5.00 µm | **8.257.702** |
| 30 m x 0.32 mm x 5.00 µm | **8.257.703** |
| 30 m x 0.53 mm x 5.00 µm | **8.257.704** |
| 50 m x 0.32 mm x 5.00 µm | **8.257.705** |
| 50 m x 0.53 mm x 5.00 µm | **8.257.706** |
| 60 m x 0.32 mm x 5.00 µm | **8.257.707** |
| 60 m x 0.53 mm x 5.00 µm | **8.257.708** |
| 40 m x 0.32 mm x 5.00 µm | **8.257.709** |
| 60 m x 0.53 mm x 7.00 µm | **8.257.710** |



**TRACSIL TRB-1ht Capillary columns**
Stationary Phase 100% dimethylpolysiloxane, cross linked and chemically bonded. Non-polar. Fused silica tube covered with polyamide to high temperatures (max. 400°C). To analysis of compounds with a high boiling point: triglycerides, waxes...

***TRACSIL TRB-1ht colonnes capillaires***
*Excellentes colonnes capillaires à usage général non-polaires à phase stationnaire pour haute température (max. 400°C) à temps d'analyse très courts pour les composés à haut point d'ébullition*

EQUIVALENT PHASE TO: **Agilent:** DB-1ht, **Restek:** Rtx-1ht, **Varian:** CP-SIL 5CB, , **Alltech:** AT-1ht

| **Description**<br>***Description*** | **Order No.**<br>***N° de code*** |
|---|---|
| Length x Internal Ø x Film thickness<br>*Longueur x Ø int. x Epaisseur de film* | |
| 15 m x 0.25 mm x 0.10 µm | **8.257.720** |
| 15 m x 0.32 mm x 0.10 µm | **8.257.721** |
| 30 m x 0.25 mm x 0.10 µm | **8.257.722** |
| 30 m x 0.32 mm x 0.10 µm | **8.257.723** |



**TRACSIL TRB-1ms Capillary columns**
Stationary Phase 100% dimethylpolysiloxane, cross-linked and chemically bonded columns. These columns identical to the TRB-1 are suitable for the analysis of trace compounds by GC/MS or by ECD, NPD and SCD detections

***TRACSIL TRB-1ms colonnes capillaires***
*Excellentes colonnes capillaires à usage général non-polaires à phase stationnaire identiques à la TRB-1 spécialement concues pour l'utilisation en spectrométrie de masse (GC/MS) ou avec des détecteurs ECD, NPD ou SCD pour l'analyse des traces en pharmacie, pétrochimie, environnement, industrie alimentaire etc.*

EQUIVALENT PHASE TO: **Agilent:** HP-1ms, DB-1ms, **Restek:** Rtx-1ms, **Varian:** CP-SIL 5CBms, **Alltech:** AT-1ms

| **Description**<br>***Description*** | **Order No.**<br>***N° de code*** |
|---|---|
| Length x Internal Ø x Film thickness<br>*Longueur x Ø int. x Epaisseur de film* | |
| 15 m x 0.25 mm x 0.10 µm | **8.257.730** |
| 15 m x 0.32 mm x 0.10 µm | **8.257.731** |
| 30 m x 0.25 mm x 0.10 µm | **8.257.732** |
| 30 m x 0.32 mm x 0.10 µm | **8.257.733** |
| 60 m x 0.25 mm x 0.10 µm | **8.257.734** |
| 60 m x 0.32 mm x 0.10 µm | **8.257.735** |
| 15 m x 0.25 mm x 0.25 µm | **8.257.736** |
| 15 m x 0.32 mm x 0.25 µm | **8.257.737** |
| 30 m x 0.25 mm x 0.25 µm | **8.257.738** |
| 30 m x 0.32 mm x 0.25 µm | **8.257.739** |
| 60 m x 0.25 mm x 0.25 µm | **8.257.740** |
| 60 m x 0.32 mm x 0.25 µm | **8.257.741** |
| 15 m x 0.32 mm x 0.50 µm | **8.257.742** |
| 30 m x 0.32 mm x 0.50 µm | **8.257.743** |
| 60 m x 0.32 mm x 0.50 µm | **8.257.744** |
| 25 m x 0.25 mm x 0.12 µm | **8.257.745** |
| 15 m x 0.25 mm x 1.00 µm | **8.257.746** |
| 15 m x 0.32 mm x 1.00 µm | **8.257.747** |
| 30 m x 0.25 mm x 1.00 µm | **8.257.748** |
| 30 m x 0.32 mm x 1.00 µm | **8.257.749** |
| 60 m x 0.25 mm x 1.00 µm | **8.257.750** |
| 60 m x 0.32 mm x 1.00 µm | **8.257.751** |

## Accessories for the Gas Chromatography

*Accessoires pour la Chromatographie en Phase Gazeuse*

**Select the sizes:**
***Sélectionnez les dimensions:***

| | |
|---|---|
| • **Agilent:** | 5700, 5880 = 9.5/10mm<br>5880A, 5890 = 11mm<br>6850, 6890 = 11mm<br>On-Column = 5.0mm |
| • **CE, Finnigan, TMQ:** | Serie 8000 = 17mm<br>Trace, GCQ mit Trace = 17mm<br>9001, GCQ, QCQ = 9.5mm<br>Trace 2000 = 9.5mm |
| • **Gow Mac / AGC:** | Series 600 = 9.5 mm |
| • **Perkin Elmer:** | Sigma Serie, 900,990 = 11mm<br>8000 Serie, Autosys 11mm |
| • **Shimadzu and SRI:** | all plug |
| • **Tracor:** | 540 = 11.5mm<br>550, 560 = 9.5mm<br>220, 222 = 12.7mm |
| • **Varian:** | packed columns = 9.5/10mm<br>1078/1079 Injectors = 10/11mm<br>1177 = 9.0mm |

**GC Silicon-Septa (longlife)** for temperature up to 400°C and several injections. Thickness 3 mm

***Septums en silicone*** *pour température jusqu'à 400°C et pour plusieurs injections. Epaisseur 3 mm*

| Ø<br>Ø<br>mm | Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 5.0 | With center guide | 50 | **8.258.000** |
| 9.0 | With center guide | 50 | **8.258.001** |
| 9.5 | - | 50 | **8.258.002** |
| 11.0 | With center guide | 50 | **8.258.003** |
| 11.5 | With center guide | 50 | **8.258.004** |
| 12.7 | - | 50 | **8.258.005** |
| 17.0 | - | 50 | **8.258.006** |
| Plug for Shimadzu | - | 50 | **8.258.007** |



**8.258.00***

**GC Silicon-Septa** suitable for GC/MS low bleed capillary columns and for temperature up to 400°C. Thickness 3 mm

***Septums en silicone*** *pour utilisation en GC/MS et température jusqu'à 400°C. Epaisseur 3 mm*

| Ø<br>Ø<br>mm | Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 5.0 | With center guide | 50 | **8.258.010** |
| 6.4 | With center guide | 50 | **8.258.011** |
| 9.0 | With center guide | 50 | **8.258.012** |
| 9.5 | - | 50 | **8.258.013** |
| 10.0 | - | 50 | **8.258.014** |
| 11.0 | With center guide | 50 | **8.258.015** |
| 11.5 | With center guide | 50 | **8.258.016** |
| 12.0 | - | 50 | **8.258.017** |
| 12.7 | - | 50 | **8.258.018** |
| 17.0 | - | 50 | **8.258.019** |
| Plug for Shimadzu | - | 50 | **8.258.020** |



**8.258.01***

**GC Green Silicon-Septa longlife,** for temperature up to 400°C. Thickness 3 mm

***Septums en silicone verte*** *pour longue durée et température jusqu'à 400°C. Epaisseur 3 mm*

| Ø<br>Ø<br>mm | Description | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|
| 5.0 | With center guide | 50 | **8.258.030** |
| 9.0 | With center guide | 50 | **8.258.031** |
| 9.5 | - | 50 | **8.258.032** |
| 11.0 | With center guide | 50 | **8.258.033** |
| 11.5 | With center guide | 50 | **8.258.034** |
| 12.7 | - | 50 | **8.258.035** |
| 17.0 | - | 50 | **8.258.036** |
| Plug for Shimadzu | - | 50 | **8.258.037** |



**8.258.03***

**GC Universal HT-Septa transparency,** for temperature up to 340°C. Thickness 3 mm

***Septums universal HT, transparent*** *pour température jusqu'à 400°C. Epaisseur 3 mm*

| Ø<br>Ø<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 9.5 | 25 | **8.258.040** |
| 10.0 | 25 | **8.258.041** |
| 11.0 | 25 | **8.258.042** |
| 12.5 | 25 | **8.258.043** |
| 17.0 | 25 | **8.258.044** |
| Plug for Shimadzu | 25 | **8.258.045** |



**8.258.04***



**8.258.1****

**Ferrules, 100% Vespel (Polyimide),**
available as 1/16", 1/8" and 1/4" fittings, high temperature resistance to max. 350°C. Not reusable.
Standard pack of 10 pieces

***Ferrules, 100% Vespel (polyimide),***
*disponibles en raccords de 1/16", 1/8" et 1/4" et résistantes aux hautes températures jusqu'à max. 350°C. Non-réutilisables.*
*Conditionnement standard de 10 pièces*

| Hole<br>*Trou* | Order No.<br>*N° de code*<br>1/16" | Order No.<br>*N° de code*<br>1/8" | Order No.<br>*N° de code*<br>1/4" |
|---|---|---|---|
| Without | **8.258.100** | **8.258.120** | **8.258.140** |
| 0.3 mm (0.18mm) | **8.258.101** | - | - |
| 0.4 mm (0.25 mm) | **8.258.102** | **8.258.122** | - |
| 0.4 mm x 2 (0.25mm) | **8.258.103** | - | - |
| 0.5 mm (0.32 mm) | **8.258.104** | **8.258.124** | - |
| 0.5 mm x 2 (0.32mm) | **8.258.105** | - | - |
| 0.8 mm (0.53 mm) | **8.258.106** | **8.258.126** | - |
| 1.0 mm (0.65mm) | **8.258.107** | - | **8.258.147** |
| 1.2 mm (0.75mm) | **8.258.108** | - | - |
| 1/16'' | **8.258.109** | **8.258.129** | **8.258.149** |
| 1/8'' | - | **8.258.130** | **8.258.150** |
| 6.0 mm | - | - | **8.258.151** |
| 1/4'' | - | - | **8.258.152** |



**8.258.16***

**Ferrules, 100% Vespel (Polyimide),**
for 1/16" fittings, short form specific for Agilent 5890/6890 inlets and detectors (not MSD). High temperature resistance to max. 350°C. Not reusable.
Standard pack of 10 pieces

***Ferrules, 100% Vespel (polyimide),***
*de 1/16"pour les inlets et détecteurs (pas MSD) de Agilent 5890/6890 résistantes aux hautes températures jusqu'à max. 350°C. Non-réutilisables.*
*Conditionnement standard de 10 pièces*

| Hole<br>*Trou* | Order No.<br>*N° de code*<br>1/16" |
|---|---|
| 0.4 mm (0.25 mm) | **8.258.160** |
| 0.5 mm (0.32 mm) | **8.258.161** |
| 0.8 mm (0.53 mm) | **8.258.162** |



**8.258.2****

**Ferrules, 60% Vespel (Polyimide) and 40% graphite**
available as 1/16", 1/8" and 1/4" fittings, high temperature resistance to max. 400°C. Recommended for GC/MS. Reusable.
Standard pack of 10 pieces

***Ferrules, 60% Vespel (polyimide) et 40% graphite,***
*disponibles en raccords de 1/16", 1/8" et 1/4" et résistantes aux hautes températures jusqu'à max. 400°C. Réutilisables.*
*Conditionnement standard de 10 pièces*

| Hole<br>*Trou* | Order No.<br>*N° de code*<br>1/16" | Order No.<br>*N° de code*<br>1/8" | Order No.<br>*N° de code*<br>1/4" |
|---|---|---|---|
| Without | **8.258.200** | **8.258.220** | **8.258.240** |
| 0.3 mm (0.18mm) | **8.258.201** | - | - |
| 0.4 mm (0.25 mm) | **8.258.202** | **8.258.222** | **8.258.242** |
| 0.4 mm x 2 (0.25mm) | **8.258.203** | **8.258.223** | - |
| 0.5 mm (0.32 mm) | **8.258.204** | **8.258.224** | **8.258.244** |
| 0.5 mm x 2 (0.32mm) | **8.258.205** | - | - |
| 0.8 mm (0.53 mm) | **8.258.206** | **8.258.226** | **8.258.246** |
| 1.0 mm (0.65mm) | **8.258.207** | - | - |
| 1.2 mm (0.75mm) | **8.258.208** | - | - |
| 1/16'' | **8.258.209** | **8.258.229** | **8.258.249** |
| 1/8'' | - | **8.258.230** | **8.258.250** |
| 6.0 mm | - | - | **8.258.251** |
| 1/4'' | - | - | **8.258.252** |



**8.258.26***

**Ferrules, 60% Vespel (Polyimide) and 40% graphite**
for 1/16" fittings, short form specific for Agilent 5890/6890 inlets and detectors (not MSD). High temperature resistance to max. 400°C. Recommended for GC/MS. Reusable. Standard pack of 10 pieces

***Ferrules, 60% Vespel (polyimide) et 40% graphite,***
*de 1/16"pour les inlets et détecteurs (pas MSD) de Agilent 5890/6890 résistantes aux hautes températures jusqu'à max. 400°C. Réutilisables.*
*Conditionnement standard de 10 pièces*

| Hole<br>*Trou* | Order No.<br>*N° de code*<br>1/16" |
|---|---|
| 0.3 mm (0.18 mm) | **8.258.260** |
| 0.4 mm (0.25 mm) | **8.258.261** |
| 0.5 mm (0.32 mm) | **8.258.262** |
| 0.8 mm (0.53 mm) | **8.258.263** |

**Ferrules, 100% graphite**
available as 1/16", 1/8" and 1/4" fittings, high temperature resistance to max. 450°C. Recommended for GC/MS. Reusable.
Standard pack of 10 pieces

***Ferrules, 100% graphite,***
*disponibles en raccords de 1/16", 1/8" et 1/4" et résistantes aux hautes températures jusqu'à max. 450°C. Réutilisables.*
*Conditionnement standard de 10 pièces*

| Hole<br>*Trou* | Order No.<br>*N° de code*<br>1/16" | Order No.<br>*N° de code*<br>1/8" | Order No.<br>*N° de code*<br>1/4" |
|---|---|---|---|
| Without | **8.258.300** | **8.258.320** | **8.258.340** |
| 0.3 mm (0.18mm) | **8.258.301** | - | - |
| 0.4 mm (0.25 mm) | **8.258.302** | **8.258.322** | - |
| 0.4 mm x 2 (0.25mm) | **8.258.303** | - | - |
| 0.5 mm (0.32 mm) | **8.258.304** | **8.258.324** | **8.258.344** |
| 0.5 mm x 2 (0.32mm) | **8.258.305** | **8.258.325** | - |
| 0.8 mm (0.53 mm) | **8.258.306** | **8.258.326** | **8.258.346** |
| 1.0 mm (0.65mm) | **8.258.307** | - | - |
| 1.2 mm (0.75mm) | **8.258.308** | - | - |
| 1/16'' | **8.258.309** | **8.258.329** | **8.258.349** |
| 1/8'' | - | **8.258.330** | **8.258.350** |
| 6.0 mm | - | - | **8.258.351** |
| 8.0 mm | - | - | **8.258.352** |
| 1/4'' | - | - | **8.258.353** |


**8.258.3****

**Ferrules, 100% graphite**
for 1/16" fittings, short form specific for Agilent 5890/6890 inlets and detectors (not MSD). High temperature resistance to max. 450°C. Reusable.
Standard pack of 10 pieces

***Ferrules, 100% Vespel (polyimide),***
*de 1/16" pour les inlets et détecteurs (pas MSD) de Agilent 5890/6890 résistantes aux hautes températures jusqu'à max. 450°C. Réutilisables.*
*Conditionnement standard de 10 pièces*

| Hole<br>*Trou* | Order No.<br>*N° de code*<br>1/16" |
|---|---|
| 0.4 mm (0.25 mm) | **8.258.360** |
| 0.5 mm (0.32 mm) | **8.258.361** |
| 0.8 mm (0.53 mm) | **8.258.362** |


**8.258.36***

**Ferrules, 100% graphite**
for columns with 5 mm OD, specific for Shimadzu. High temperature resistance to max. 450°C. Reusable.
Standard pack of 10 pieces

***Ferrules, 100% Vespel (polyimide),***
*graphite pour colonne de 5 mm de dia. extérieur, spécifiques pour Shimadzu. Résistantes aux hautes températures jusqu'à max. 450°C. Réutilisables.*
*Conditionnement standard de 10 pièces*

| Hole<br>*Trou* | Order No.<br>*N° de code* |
|---|---|
| 5 mm | **8.258.370** |


**8.258.370**

**Viton O-Rings for Agilent GCs,** suitable for Split (6.3 mm) and Splitless (6.5 mm) liners

***Joints en viton pour CPG Agilent,*** *adaptables pour les liners Split (6.3 mm) et Splitless (6.5 mm)*

| Description | Order No.<br>*N° de code* |
|---|---|
| Viton O-Rings, for Agilent 5188-5365, box of 10 pieces | **8.258.380** |
| Viton O-Rings, for Agilent 5188-5365, box of 12 pieces | **8.258.381** |


**8.258.38***

**Ferrule drilling set,**
supplied complete with holder and borers 0.35, 0.40, 0.45,0.5, 0.7, 0.75 and 0.8 mm

***Kit de percage pour ferrules,***
*complet avec manche et mèches de 0.35, 0.40, 0.45,0.5, 0.7, 0.75 et 0.8 mm*

| Description | Order No.<br>*N° de code* |
|---|---|
| Ferrule drilling set, complete<br>*Kit de percage pour ferrules complet* | **8.258.390** |


**8.258.390**

**Ferrule remover, set of 2,**
for holes from 0.4 up to 0.8 m

***Kit pour retrait des ferrules,***
*jeu de 2, pour trous de 0.4 à 0.8 mm*

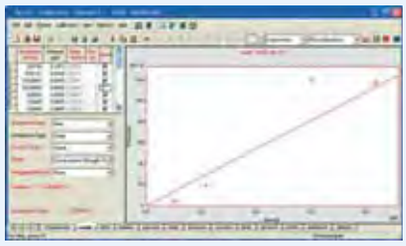
| Description | Order No.<br>*N° de code* |
|---|---|
| Ferrule remover, set of 2<br>*Kit de retrait des ferrules, jeu de 2* | **8.258.395** |


**8.258.395**

**Witeg can suppy all further accessories and spare parts for any CG systems.**
**Please contact us.**
***Witeg peut livrer tout autres accessoires et pièces de rechange pour vos CPG.***
*Veuillez svp nous contacter*

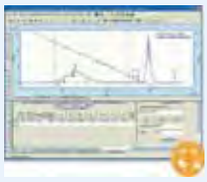




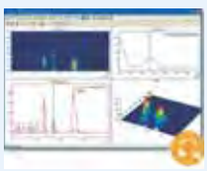





SST



GPC



PDA



CE

## Chromatography station for Windows™

### *Station de Chromatographie pour Windows™*

The Clarity Software has been developed and tested for use with any GC or HPLC units with standard analogue output as an inexpensive data acquisition, data processing and evaluation system from up to four chromatographs at a time. It is an advanced chromatography station and a universal solution for laboratories also as replacement of integrators or old softwares

*Le Clarity a été développé et testé pour son utilisation avec tout type de chromatographes (GC ou HPLC) équipés d'une sortie analogique, en tant que système à bon prix pour l'acquisition et le traiement des données jusqu'à 4 chromatographes simultanément. C'est une station chromatographique très avancée et une solution universelle pour les laboratoires, également à la place d'intégrateurs ou d'autres anciens logiciels*

Up to four independent chromatography systems, each of which can be equipped with up to 12 detectors (signals), can be connected simultaneously.

*Jusqu'à 4 systèmes chromatographiques indépendent peuvent être connectés simultanément, chacun pouvant être équipé jusqu'à 12 détecteurs (signaux).*

The Chromatography Data Package includes an A/D converter (internal PCI card or external USB box) or a control module for digital data acquisition and the respective software. For use with 32-bit operating systems Microsoft up to XP version

*Le Clarity inclue un converteur A/D (carte à intégrer PCI ou boitier USB externe) ou d'un module de contrôle pour l'acquisition digitale des données et le logiciel respectif. Pour utilisation sur PC de 32-bit jusqu'à la version Microsoft XP*

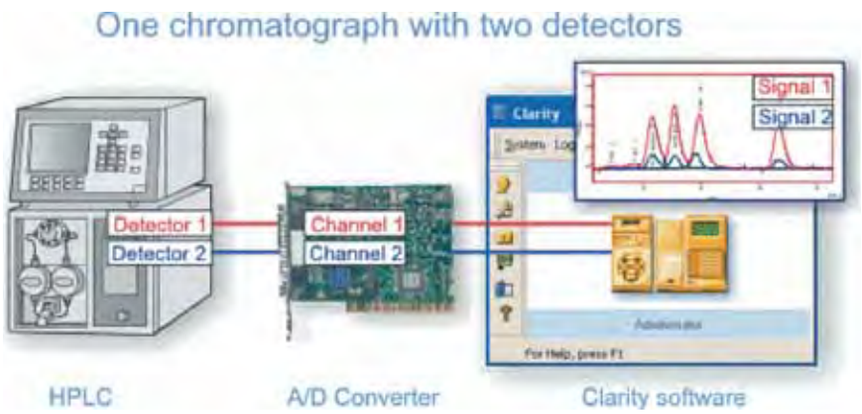
| **Description** | **Order No.**<br>***N° de code*** |
|---|---|
| Chromatography Software, extensible, single instrument Software, CFR21/GLP ready<br>*Logiciel de chromatographie, extensible, prêt à répondre au CFR21/GLP* | **8.258.500** |
| **Extension modules**<br>***Modules d'extension*** | |
| Clarity single instrument Add-on<br>*Ajout au logiciel Clarity Single instrument* | **8.258.510** |
| Software module for SST (System Suitability Test ) - serves to monitor the correct function of the chromatography system.<br>*Module d'extension pour SST – sert à visualiser le bon fonctionnement du système de chromatographie* | **8.258.511** |
| Software module for GPC/SEC data processing<br>*Module d'extension pour traitement des données en GPC/SEC* | **8.258.512** |
| Software module for PDA data processing<br>*Module d'extension pour pour traitement des données PDA* | **8.258.513** |
| Software module for Capillary Electrophoresis<br>*Module d'extension pour électrophorèse à capillaire* | **8.258.514** |
| **Control modules**<br>***Modules de contrôle*** | |
| Software module for AS (autosampler) control<br>*Module pour contrôle d'un passeur d'échantillons* | **8.258.520** |
| Software module for GC control<br>*Module pour contrôle d'un chromatographe en phase gazeuse* | **8.258.521** |
| Software module for HPLC control (pump, detector, etc...)<br>*Module pour contrôle d'une HPLC (pompe, détecteur, etc...)* | **8.258.522** |

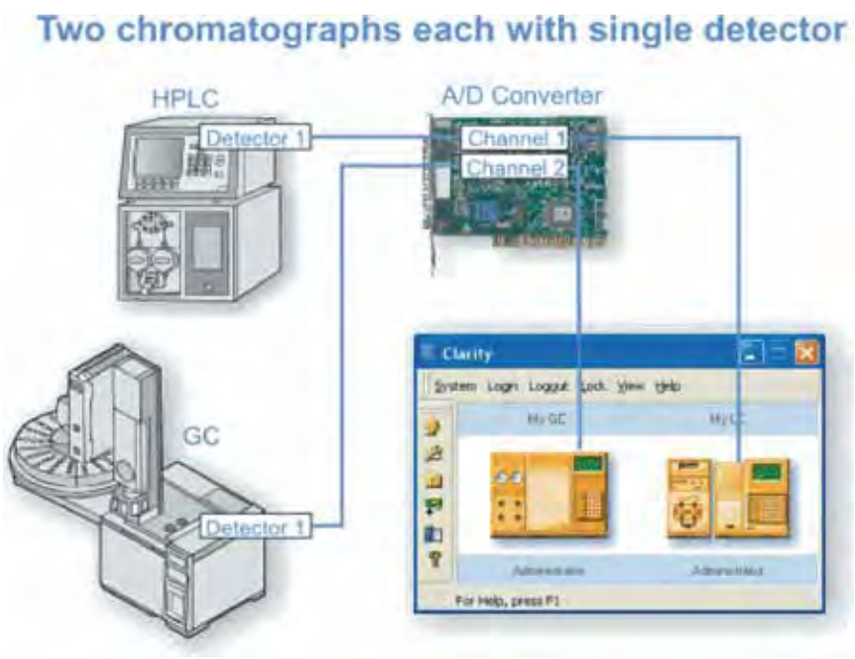
Together with optional Control modules and Extensions, it provides the laboratories with complete chromatography data handling system. The Control modules provide integrated control of selected instruments, Extensions provide functions for specific separation techniques such as PDA or GPC analysis

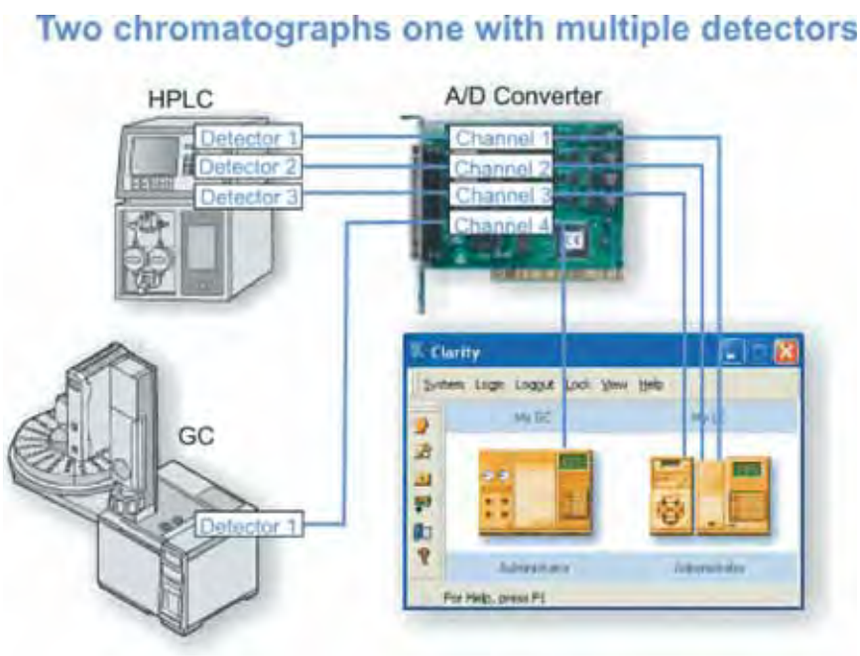
*A l'aide de modules de contrôle optionnels et extensions, il offre aux laboratoire un système chromatographique d'acquisition et de traiement des données complet. Les modules de contrôles permettent un contrôle intégré des instruments sélectionnés. Des extensions optionnellees également offrent des techniques de séparation spécifiques pour des analyses telles que PDA ou GPC*

**Clarity - Examples of typical configurations**

*Exemples typiques de configuration*



## HPLC Validation kits for IQ/OQ/PQ Qualification

*Kits de validation IQ/OQ/PQ pour HPLC*



**Gradient HPLC Validation Starter Kit**
HPLC software (single PC installation) supplied on CD plus datadisc containing electronic copies of current Standard Operating Procedures and validation licences for one year from order date to permit testing of: Flow Rate Accuracy, Gradient Accuracy, Gradient Linearity, Temperature Accuracy, Autosampler Precision & Carryover, Autosampler Linearity, UV Wavelength Accuracy in manual and scanned modes, and UV Absorbance Linearity. Solutions for a minimum of two complete gradient system validations (2 x 5 vials of UV detector linearity and 2 x vials UV wavelength accuracy solutions, 2 x vials autosampler test solution, 2 x vials gradient accuracy test solution) with traceable Certificates of Analysis

***Kit de validation spécifique pour HPLC version à gradient..*** *Il comprend un logiciel pour gradient (avec une seule licence pour PC), un log book, licences de validation et solutions pour un minimum de 2 validations complètes d'un système à gradient (solutions de linéarité et de longueur d'onde pour le détecteur , solutions pour l'injecteur automatique, solutions pour gradient). Avec certificats d'analyse*

| Order No.<br>*N° de code* |
|---|
| 8.258.600 |



**HPLC system from JASCO**
**our partner in the laboratory world**

**UV/Vis Detector Validation Refill Kit**
for use with the starter kit, consisting of: 2 x 1 vials of solution for UV wavelength accuracy, 2x5 vials of solution for UV linearity and certificates of Analysis

***Kit de recharge pour validation spécifique du détecteur UV/Vis.*** *Il comprend des ampoules à solutions pour un minimum de 2 validations complète d'un détecteur UV (longueur d'onde et linéarité)*

| Order No.<br>*N° de code* |
|---|
| 8.258.610 |

**FL Fluorescence Detector Validation Kit**
to permit testing of Emission Wavelength Accuracy and Fluorescence Response Linearity. Solutions for a minimum of two FL detector validations (2 x vials wave-length accuracy solution, 2 x 5 response linearity solutions), and Certificates of Analysis

***Kit de validation spécifique pour détecteur à Fluorescence.*** *Il comprend des licences de validation et solutions pour un minimum de 2 validations complète d'un détecteur à fluorescence*

| Order No.<br>*N° de code* |
|---|
| 8.258.620 |



**RI Refractive Index Detector Validation Kit**
to permit testing of RI Response Linearity. Solutions for a minimum of two RI detector validations (2 x 5 response linearity solutions), and Certificates of Analysis

***Kit de validation spécifique pour détecteur à Indice de Réfraction.*** *Il comprend des licences de validation et solutions pour un minimum de 2 validations complète d'un détecteur à fluorescence*

| Order No.<br>*N° de code* |
|---|
| 8.258.630 |

**Column validation kit Alltima C18 of 5µm,**
consists of 3 columns from 3 different batches 4.6 x 250 mm. Usefull for the validation of methods

***Kit de validation de colonnes analytiques Alltima C18*** *de 5µm et qui consiste en 3 colonnes de différents batches de dimensions 4.6 x 250 mm et recommandé pour la validation de méhodes*

| Order No.<br>*N° de code* |
|---|
| 8.258.640 |

**Gas Chromatograph Validation starter kit**
GC software program (with licence for single PC installation), printed and electronic copies of Standard Operating Procedures, log book, data disc containing validation licences for one year from order date to permit testing of Temperature Accuracy and Stability, Pressure accuracy and Tightness, Flow rate, GC linearity and precision. Solutions for a minimum of two complete GC system validations (2 x 7 standard solutions) with Certificates of Analysis. For 2 complete GC system qualifications

***Système de validation pour Chromatographe en phase gazeuse,*** *kit de démarrage permettant la qualification complète de 2 chromatographes. Il comprend un logiciel (avec une seule licence pour PC), un log book, licences de validation et solutions. Complet avec certificats d'analy*

| | Order No.<br>*N° de code* |
|---|---|
| | 8.258.650 |



**GC Refilling Validation Kit**
For use with the starter kit. Solutions for a minimum of two complete GC system validations. Complete with Certificates of Analysis

***Kit de remplissage pour le kit de démarrage***
*Uniquement si l'utilisateur est déjà en possession du Kit de démarrage pour la validation d'un chromatographe en phase gazeuse. Livré avec solutions nécessaires aux validations y compris les certificats*

| | Order No.<br>*N° de code* |
|---|---|
| | 8.258.660 |




**Gas chromatograph from AGC, our partner in the laboratory world**

## TLC PLATES READY TO USE

*Plaques, prêtes à l'emploi*

**TLC Plates,** ready-to-use Silica 60, particle size 5-17 µm

***Plaques pour CCM,*** *prêtes à l'emploi, avec revêtement en silice 60, 5-17 µm*

| **Glass Plates** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
|---|---|---|---|---|---|---|
| | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 100** | **Pack of 25** | **Pack of 50** | **Pack of 25** |
| ***en verre*** | ***de couche*** | | | | | |
| SIL G-25 | 0.25 mm | **8.259.000** | **8.259.100** | **8.259.200** | **8.259.300** | **8.259.400** |
| SIL G-25 $UV_{254}$ | 0.25 mm | **8.259.001** | **8.259.101** | **8.259.201** | **8.259.301** | **8.259.401** |
| SIL G-25 $UV_{254+366}$ | 0.25 mm | - | **8.259.102** | - | **8.259.302** | **8.259.402** |
| | | | | | | **Pack of 20** |
| SIL G-50 | 0.50 mm | - | - | - | - | **8.259.403** |
| SIL G-25 $UV_{254}$ | 0.25 mm | - | - | - | - | **8.259.404** |
| | | | | | | **Pack of 15** |
| SIL G-100 | 1.00 mm | - | - | - | - | **8.259.405** |
| SIL G-100 $UV_{254}$ | 1.00 mm | - | - | - | - | **8.259.406** |
| **Polygram** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| **Polyester sheets** | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 50** | **Pack of 25** |
| ***en Polyestère*** | ***de couche*** | | | | | |
| SIL G | 0.20 mm | - | **8.259.110** | - | - | **8.259.410** |
| SIL G/$UV_{254}$ | 0.20 mm | - | **8.259.111** | - | - | **8.259.411** |
| **Alugram** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| **Aluminium sheets** | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 20** | **Pack of 25** |
| ***en Aluminium*** | ***de couche*** | | | | | |
| SIL G | 0.20 mm | **8.259.020** | **8.259.120** | - | **8.259.320** | **8.259.420** |
| SIL G/$UV_{254}$ | 0.20 mm | **8.259.021** | **8.259.121** | - | **8.259.321** | **8.259.421** |

**HPTLC Plates,** ready-to-use with Nano grade Silica 60, particle size 2-10 µm

***Plaques pour HPTLC,*** *prêtes à l'emploi, avec revêtement en Nano de silice 60, 2-10 µm*

| **Glass Plates** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
|---|---|---|---|---|---|---|
| | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 100** | **Pack of 25** | **Pack of 50** | **Pack of 25** |
| ***en verre*** | ***de couche*** | | | | | |
| Nano-SIL-20 | 0.25 mm | - | - | **8.259.230** | **8.259.330** | - |
| Nano-SIL-20 $UV_{254}$ | 0.25 mm | - | - | **8.259.231** | **8.259.331** | - |
| **Alugram** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| **Aluminium sheets** | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 20** | **Pack of 25** |
| ***en Aluminium*** | ***de couche*** | | | | | |
| Nano-SIL G | 0.20 mm | - | **8.259.140** | - | - | **8.259.440** |
| Nano-SIL G/$UV_{254}$ | 0.20 mm | - | **8.259.141** | - | - | **8.259.441** |

**Reversed phase TLC and HPTLC Plates,** ready-to-use with C18 Nano silica (RP-18)

***Plaques à phase inversée pour CCM et HPTLC,*** *prêtes à l'emploi, avec revêtement en nano silice C18 (RP-18)*

| **Glass Plates** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
|---|---|---|---|---|---|---|
| | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 100** | **Pack of 25** | **Pack of 50** | **Pack of 25** |
| ***en verre*** | ***de couche*** | | | | | |
| Nano-SIL C18-50% silanised | 0.20 mm | - | - | **8.259.250** | - | - |
| Nano-SIL C18-50%- $UV_{254}$ | 0.20 mm | - | - | **8.259.251** | - | - |
| Nano-SIL C18-100% silanised | 0.20 mm | - | - | **8.259.252** | - | - |
| Nano-SIL C18-100%- $UV_{254}$ | 0.20 mm | - | - | **8.259.253** | - | - |
| **Glass Plates** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 20** | **Pack of 25** |
| ***en verre*** | ***de couche*** | | | | | |
| RP-18W/ $UV_{254}$ | 0.25 mm | - | **8.259.160** | **8.259.260** | **8.259.360** | **8.259.460** |
| | | | | | | **Pack of 15** |
| RP-18W/ $UV_{254}$ | 1.0 mm | - | - | - | - | **8.259.465** |
| **Alugram** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| **Aluminium sheets** | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 20** | **Pack of 25** |
| ***en Aluminium*** | ***de couche*** | | | | | |
| RP-18W/ $UV_{254}$ | 0.15 mm | **8.259.070** | **8.259.170** | **8.259.270** | - | **8.259.470** |

**TLC and HPTLC Plates,** ready-to-use with modified silica layers
Nano-SIL $NH_2$

***Plaques pour CCM et HPTLC,*** *prêtes à l'emploi, avec revêtement amino-modifié en Nano-SIL $NH_2$*

| Glass Plates<br>*Plaques en verre* | Layer thickness<br>*Epaisseur de couche* | Size<br>5 x 10 cm<br>Pack of 50 | Size<br>5 x 20 cm<br>Pack of 100 | Size<br>10 x 10 cm<br>Pack of 25 | Size<br>10 x 20 cm<br>Pack of 50 | Size<br>20 x 20 cm<br>Pack of 25 |
|---|---|---|---|---|---|---|
| Nano-SIL $NH_2$ | 0.20 mm | - | - | **8.259.280** | **8.259.380** | - |
| Nano-SIL $NH_2/UV_{254}$ | 0.20 mm | - | - | **8.259.281** | **8.259.381** | - |
| **Alugram Aluminium sheets**<br>***Plaques en Aluminium*** | **Layer thickness**<br>***Epaisseur de couche*** | **Size**<br>**5 x 10 cm**<br>**Pack of 50** | **Size**<br>**5 x 20 cm**<br>**Pack of 50** | **Size**<br>**10 x 10 cm**<br>**Pack of 25** | **Size**<br>**10 x 20 cm**<br>**Pack of 20** | **Size**<br>**20 x 20 cm**<br>**Pack of 25** |
| Nano-SIL $NH_2/UV_{254}$ | 0.15 mm | - | - | - | - | **8.259.490** |

**TLC and HPTLC Plates,** ready-to-use with modified silica layers
Nano-SIL DIOL/UV

***Plaques pour CCM et HPTLC,*** *prêtes à l'emploi, avec revêtement amino-modifié en Nano-SIL DIOL/UV*

| Glass Plates<br>*Plaques en verre* | Layer thickness<br>*Epaisseur de couche* | Size<br>5 x 10 cm<br>Pack of 50 | Size<br>5 x 20 cm<br>Pack of 100 | Size<br>10 x 10 cm<br>Pack of 25 | Size<br>10 x 20 cm<br>Pack of 25 | Size<br>20 x 20 cm<br>Pack of 25 |
|---|---|---|---|---|---|---|
| Nano-SIL DIOL/$UV_{254}$ | 0.20 mm | - | - | **8.259.700** | **8.259.800** | - |
| **Alugram Aluminium sheets**<br>***Plaques en Aluminium*** | **Layer thickness**<br>***Epaisseur de couche*** | **Size**<br>**5 x 10 cm**<br>**Pack of 50** | **Size**<br>**5 x 20 cm**<br>**Pack of 50** | **Size**<br>**10 x 10 cm**<br>**Pack of 25** | **Size**<br>**10 x 20 cm**<br>**Pack of 20** | **Size**<br>**20 x 20 cm**<br>**Pack of 25** |
| Nano-SIL DIOL/$UV_{254}$ | 0.15 mm | - | - | - | - | **8.259.910** |

**HPTLC method development kits to facilitate selection of the optimum HPTLC plate for a given separation**

***Kits HPTLC de développement de méthode***

**Development kit** with glass plates

***Kit de développement*** *avec 3 plaques en verre de 10 x 10 cm*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| 3 glass plates 10 x 10 cm (scored to 5 x 10 cm) each of Nano-SIL C18-100/$UV_{254}$, RP-18W/ $UV_{254}$, RP-2/ $UV_{254}$, Nano-SIL CN/UV, Nano-SIL $NH_2$/UV, Nano-SIL DIOL/UV | **8.259.990** |

**Development kit** with aluminium sheets Alugram

***Kit de développement*** avec 5 plaquesen aluminium de 4 x 8 cm

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| 5 sheets 4 x 8 cm each of RP-18 W/$UV_{254}$4, RP-2/ $UV_{254}$, Nano-SIL CN/UV, Nano-SIL $NH_2$/UV, Nano-SIL DIOL/UV | **8.259.995** |

**Alumnium Oxide basic TLC Plates,** ready-to-use

***Plaques pour CCM en oxide d'aluminium,*** *prêtes à l'emploi*

| Glass Plates<br>*Plaques en verre* | Layer thickness<br>*Epaisseur de couche* | Size<br>5 x 10 cm<br>Pack of 50 | Size<br>5 x 20 cm<br>Pack of 100 | Size<br>10 x 10 cm<br>Pack of 25 | Size<br>10 x 20 cm<br>Pack of 25 | Size<br>20 x 20 cm<br>Pack of 25 |
|---|---|---|---|---|---|---|
| ALOX-25 | 0.25 mm | - | **8.260.100** | - | - | **8.260.400** |
| ALOX-25 $UV_{254}$ | 0.25 mm | - | **8.260.101** | - | - | **8.260.401** |
| | | | | | | **Pack of 15** |
| ALOX-100 $UV_{254}$ | 1.00 mm | - | - | - | - | **8.2609.402** |
| **Polygram Polyester sheets**<br>***Plaques en Polyestère*** | **Layer thickness**<br>***Epaisseur de couche*** | **Size**<br>**5 x 10 cm**<br>**Pack of 50** | **Size**<br>**5 x 20 cm**<br>**Pack of 50** | **Size**<br>**10 x 10 cm**<br>**Pack of 25** | **Size**<br>**10 x 20 cm**<br>**Pack of 20** | **Size**<br>**20 x 20 cm**<br>**Pack of 25** |
| ALOX N | 0.20 mm | - | **8.260.110** | - | - | **8.260.410** |
| ALOX N/$UV_{254}$ | 0.20 mm | - | **8.260.111** | - | - | **8.260.411** |
| **Alugram Aluminium sheets**<br>***Plaques en Aluminium*** | **Layer thickness**<br>***Epaisseur de couche*** | **Size**<br>**5 x 10 cm**<br>**Pack of 50** | **Size**<br>**5 x 20 cm**<br>**Pack of 50** | **Size**<br>**10 x 10 cm**<br>**Pack of 25** | **Size**<br>**10 x 20 cm**<br>**Pack of 20** | **Size**<br>**20 x 20 cm**<br>**Pack of 25** |
| ALOX N | 0.20 mm | - | **8.260.120** | - | - | **8.260.420** |
| ALOX N/$UV_{254}$ | 0.20 mm | - | **8.260.121** | - | - | **8.260.421** |

**Cellulose MN 300 (Native fibrous cellulose) - TLC Plates,**
ready-to-use unmodified cellulose layers

***Plaques pour CCM en cellulose 300 non-modifiée,*** prêtes à l'emploi

| Glass Plates | Layer thickness | Size 5 x 10 cm | Size 5 x 20 cm | Size 10 x 10 cm | Size 10 x 20 cm | Size 20 x 20 cm |
|---|---|---|---|---|---|---|
| *Plaques* | *Epaisseur* | Pack of 50 | Pack of 100 | Pack of 25 | Pack of 50 | Pack of 25 |
| *en verre* | *de couche* | | | | | |
| CEL 300-10 | 0.10 mm | | 8.260.130 | | 8.260.330 | 8.260.430 |
| CEL 300-10 $UV_{254}$ | 0.10 mm | | 8.260.131 | | 8.260.331 | 8.260.431 |
| CEL 300-25 | 0.25 mm | | | | 8.260.332 | 8.260.432 |
| CEL 300-25 $UV_{254}$ | 0.25 mm | | | | 8.260.334 | 8.260.433 |
| CEL 300-50 | 0.50 mm | | | | | 8.260.434 |
| CEL 300-50 $UV_{254}$ | 0.50 mm | | | | | 8.260.435 |
| **Polygram** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| **Polyester sheets** | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 20** | **Pack of 25** |
| ***en Polyestère*** | ***de couche*** | | | | | |
| CEL 300 | 0.10 mm | - | 8.260.140 | - | - | 8.260.440 |
| CEL 300 $UV_{254}$ | 0.10 mm | - | 8.260.141 | - | - | 8.260.441 |
| **Alugram** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| **Aluminium sheets** | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 20** | **Pack of 25** |
| ***en Aluminium*** | ***de couche*** | | | | | |
| CEL 300 | 0.10 mm | - | 8.260.150 | - | - | 8.260.450 |
| CEL 300 $UV_{254}$ | 0.10 mm | - | 8.260.151 | - | - | 8.260.451 |

**Cellulose MN 400 (microcrystalline cellulose) - TLC Plates,**
ready-to-use unmodified cellulose layers

***Plaques pour CCM en cellulose microcristalline non-modifiée***
*prêtes à l'emploi*

| Glass Plates | Layer thickness | Size 5 x 10 cm | Size 5 x 20 cm | Size 10 x 10 cm | Size 10 x 20 cm | Size 20 x 20 cm |
|---|---|---|---|---|---|---|
| *Plaques* | *Epaisseur* | Pack of 50 | Pack of 100 | Pack of 25 | Pack of 50 | Pack of 25 |
| *en verre* | *de couche* | | | | | |
| CEL 400-10 | 0.10 mm | - | - | - | 8.260.360 | 8.260.460 |
| CEL 400-10 $UV_{254}$ | 0.10 mm | - | - | - | 8.260.361 | 8.260.461 |
| **Polygram** | **Layer** | **Size** | **Size** | **Size** | **Size** | **Size** |
| **Polyester sheets** | **thickness** | **5 x 10 cm** | **5 x 20 cm** | **10 x 10 cm** | **10 x 20 cm** | **20 x 20 cm** |
| ***Plaques*** | ***Epaisseur*** | **Pack of 50** | **Pack of 50** | **Pack of 25** | **Pack of 20** | **Pack of 25** |
| ***en Polyestère*** | ***de couche*** | | | | | |
| CEL 400 | 0.10 mm | - | 8.260.170 | - | - | 8.260.470 |
| CEL 400 $UV_{254}$ | 0.10 mm | - | 8.260.171 | - | - | 8.260.471 |

**Special TLC / HPTLC plates,**
ready-to-use for separation of aflatoxins

***Plaques spéciales de CCM / HPTLC,***
*prêtes à l'emploi pour la séparation des aflatoxines*

| Glass Plates | Layer thickness | Size 5 x 10 cm | Size 5 x 20 cm | Size 10 x 10 cm | Size 10 x 20 cm | Size 20 x 20 cm |
|---|---|---|---|---|---|---|
| *Plaques* | *Epaisseur* | Pack of 50 | Pack of 100 | Pack of 25 | Pack of 50 | Pack of 25 |
| *en verre* | *de couche* | | | | | |
| SIL G25HR | 0.25 mm | - | - | - | - | 8.260.480 |
| SIL G25HR $UV_{254}$ | 0.25 mm | - | - | - | - | 8.260.481 |

**Special TLC / HPTLC plates,**
ready-to-use for separation of surfactants

***Plaques spéciales de CCM / HPTLC,***
*prêtes à l'emploi pour la séparation des surfactants*

| Glass Plates | Layer thickness | Size 5 x 10 cm | Size 5 x 20 cm | Size 10 x 10 cm | Size 10 x 20 cm | Size 20 x 20 cm |
|---|---|---|---|---|---|---|
| *Plaques* | *Epaisseur* | Pack of 50 | Pack of 100 | Pack of 25 | Pack of 50 | Pack of 25 |
| *en verre* | *de couche* | | | | | |
| SIL G25HR | 0.25 mm | - | - | - | - | 8.260.480 |
| SIL G25HR $UV_{254}$ | 0.25 mm | - | - | - | - | 8.260.481 |

**Special TLC / HPTLC plates,**
ready-to-use for separation of Polycyclic aromatic hydrocarbons

***Plaques spéciales de CCM / HPTLC,***
*prêtes à l'emploi pour la séparation des PAH*

| Glass Plates | Layer thickness | Size 5 x 10 cm | Size 5 x 20 cm | Size 10 x 10 cm | Size 10 x 20 cm | Size 20 x 20 cm |
|---|---|---|---|---|---|---|
| *Plaques* | *Epaisseur* | Pack of 50 | Pack of 100 | Pack of 25 | Pack of 50 | Pack of 25 |
| *en verre* | *de couche* | | | | | |
| Nano-SIL-PAH | 0.20 mm | - | - | 8.260.700 | 8.260.800 | - |

## TLC-Micro diffuser "Ecospray"

## *Pulvérisateur pour CCM "Ecospray"*

**TLC-Micro diffuser "Ecospray"**
for spraying reagent and indicator solutions with sprayer part made of PET resistant against acids and solvents. Capillary tube made of plastic and nozzle made of metal. The interchangeable pressure bomb is used for approx. 330 ml of liquid. Supplied with 125 ml bottle with screw-neck made of PET and one pressure bomb. Dimensions: 100 x 130 x 50 mm

***Pulvérisateur pour CCM "Ecospray"***
*micro diffuseur à réserve de pression qui pulvérise sur mesure des fluides. Il est équipé d'une tête de vaporisation en PET résistant à la plupart des acides et solvents, d'un tube capillaire en plastique, d'une buse métallique et est livré avec un flacon en PET de 125 ml à col à vis et d'une bombe de pression suffisante pour 330 ml de liquide. Dimensions : 100 x 130 x 50 mm*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| TLC micro diffuser „Ecospray"<br>*Pulvérisateur pour CCM "Ecospray"* | **8.260.900** |
| **Consumables /** *Consommables*: | |
| Set of 3 pressure bombs for Ecospray<br>*Jeu de 3 bombes à pression pour Ecospra* | **8.260.910** |
| Set of 3 PET bottles with screw- neck<br>*Jeu de 3 flacons à col à vis en PET* | **8.260.911** |
| Set of 3 spare nozzles with capillary tube and with different openings: 0.5 / 0.7 / 0.9 mm<br>*Jeu de 3 buses avec tube capillaire et de différentes ouvertures : 0.5 / 0.7 / 0.9mm* | **8.260.912** |




**8.260.9****

## Standard phase for Solid Phase Extraction

## *Produits d'extraction à phase solide standard SPE*

**Vacuum Manifolds for SPE**
suitable for sample preparation, filtration and elution for up to 24 columns and available in 12, 16 or 24 port configurations. Supply as complete set but without vacuum pump and columns

***Modules d'Extraction en Phase Solide SPE***
*sous vide permettant l'extraction ou la filtration simultanée pour jusqu'à 24 colonnes, disponibles en version à 12, 16 ou 24 voies et livrée complète, mais sans pompe à vide et sans colonnes*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| 12 Port Vacuum Manifold, complete set<br>*Module d'extraction SPE à 12 voies, complet* | **8.261.000** |
| 16 Port Vacuum Manifold, complete set<br>*Module d'extraction SPE à 16 voies, complet* | **8.261.001** |
| 24 Port acuum Manifold, complete set<br>*Module d'extraction SPE à 24 voies, complet* | **8.261.002** |

Spare parts & accessories / *Pièces de rechange & accessoires*

| | 12 Port | 16 Port | 24 Port |
|---|---|---|---|
| Glass chamber<br>*Cuve en verre* | **8.261.010** | **8.261.020** | **8.261.030** |
| Cover, gasket and 12 stopcocks<br>*Couvercle, joint et 12 robinets* | **8.261.011** | **8.261.021** | **8.261.031** |
| Gaskets (2 pcs.)<br>*Joints ( jeu de 2)* | **8.261.012** | **8.261.022** | **8.261.032** |
| Vacuum gauge, valve and glass chamber<br>*Manomètre à vide, vanne et cuve en verre* | **8.261.013** | **8.261.023** | **8.261.033** |
| Needles, Polypropylene (12, 16 or 24 pcs.)<br>*Aiguilles en polypropylène (12, 16 ou 24 pièces)* | **8.261.014** | **8.261.024** | **8.261.034** |
| Needles, stainless steel (12, 16 or 24 pcs.)<br>*Aiguilles en acier inoxydable (12, 16 ou 24 pièces)* | **8.261.015** | **8.261.025** | **8.261.035** |
| Rack-shelves, legs, chips & posts<br>*Etagère intérieure avec support* | **8.261.016** | **8.261.026** | **8.261.036** |
| Plate for 13 mm vials<br>*Plaque pour vials de 13 mm* | **8.261.017** | **8.261.027** | **8.261.037** |
| Plate for 16 mm test tubes<br>*Plaque pour tubes à essais de 16 mm* | **8.261.018** | **8.261.028** | **8.261.038** |
| Stopcocks (12, 16 or 24 pcs)<br>*Robinets (12, 16 ou 24 pièces)* | **8.261.019** | **8.261.029** | **8.261.039** |



**8.261.0****



8.261.04*

**Drying Attachments**
for use with the vacuum Manifolds and are used to conduct the flow air or nitrogen into the collection vessels to concentrate eluants, prior the analysis

***Dispositifs de séchage***
*servant à diriger un flux d'air ou d'azote dans les tubes collecteurs pour sécher les éluants, avant l'analyse*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| 12 Port drying attachment<br>*Dispositif de séchage pour 12 voies* | **8.261.040** |
| 16 Port drying attachment<br>*Dispositif de séchage pour 16 voies* | **8.261.041** |
| 24 Port drying attachment<br>*Dispositif de séchage pour 24 voies* | **8.261.042** |



8.261.05*

**Disposable Teflon needles**
for vacuum manifold SPE

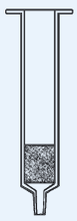
***Aiguilles en téflon à usage unique***
*pour modules d'extraction*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Teflon needles, 100 pieces<br>*Aiguilles en téflon, 100 pièces* | **8.261.050** |
| Teflon needles, 500 pieces<br>*Aiguilles en téflon, 500 pièces* | **8.261.051** |
| Teflon needles with control valve, 25 pieces<br>*Aiguilles en téflon avec vanne de contrôle, 25 pièces* | **8.261.052** |
| Teflon needles with control valve, 50 pieces<br>*Aiguilles en téflon avec vanne de contrôle, 50 pièces* | **8.261.053** |

**Chromabond Easy polyproplylene columns**
**Applications:**
drug analysis from urine, blood, serum, plasma, pharmaceuticals / active ingredients from tablets, creams, polar herbicides / pesticides from water (acidic, neutral, basic), polar phenols from water, polyaromatic compounds, polychlorated biphenyls

***Colonnes Chromabond Easy en Polypropylène***
***Applications:***
*Analyse des médicaments dans l'urine, le sang, le sérum, le plasma, constituants actifs pharmaceutiques dans les comprimés, crèmes, herbicides polaires / pesticides dans l'eau (acidique, neutre, base), phénols de base dans l'eau, composés polyaromatiques, biphenoles polychlorés*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 30 mg | 60 mg | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|---|---|
| 1 | 30 | **8.261.100** | - | **8.261.120** | - | - | - |
| 3 | 30 | - | **8.261.111** | - | **8.261.131** | **8.261.141** | - |
| 6 | 30 | - | - | - | **8.261.132** | **8.261.142** | - |
| 15 | 20 | - | - | - | - | **8.261.143** | **8.261.153** |

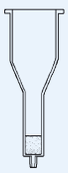


**Chromabond Polypropylene or glass columns**
***Colonnes Chromabond en Polypropylène ou en verre***

**Chromabond Easy glass columns**

***Colonnes Chromabond Easy en verre***

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 30 mg | 60 mg | 200 mg |
|---|---|---|---|---|
| 1 | 30 | **8.261.160** | - | - |
| 3 | 30 | - | **8.261.171** | - |
| 6 | 30 | - | - | **8.261.182** |

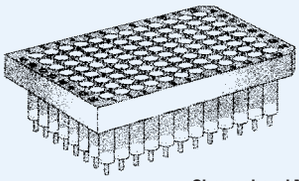


**Chromabond LV columns**
***Colonnes Chromabond LV***

**Chromabond LV-Easy columns**

***Colonnes Chromabond LV-Easy***

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 30 mg | 60 mg | 200 mg |
|---|---|---|---|---|
| 15 | 30 | **8.261.200** | **8.261.210** | **8.261.220** |



**Chromabond Multi 96**
***Modules à 96 puits Chromabond***

**Chromabond Multi 96-Easy**

***Modules à 96 puits Chromabond***

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | **8.261.230** |
| 96 x 50 mg | 1 | **8.261.240** |
| Easy absorbent 20 g | 1 | **8.261.240** |

**Chromabond HR-P polypropylene columns**
**Applications:**
AOX determination in waters containing high salt loads / Organic pollutants (DIN 38409 – H22)

***Colonnes Chromabond Easy en Polypropylène***
***Applications:***
*Dètermination des AOX dans les eaux contenant des charge à hautes teneur en sel / polluants organiques*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 20 mg | 50 mg | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|---|---|
| 1 | 30 | 8.261.300 | 8.261.310 | 8.261.320 | - | - | - |
| 3 | 30 | - | - | - | 8.261.331 | 8.261.341 | - |
| 6 | 30 | - | - | - | - | 8.261.342 | 8.261.352 |



Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

**Chromabond HR-P glass columns**

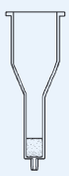
***Colonnes Chromabond HR-P en verre***

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 20 mg | 50 mg | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|---|---|
| 1 | 30 | 8.261.400 | 8.261.410 | 8.261.420 | - | - | - |
| 3 | 30 | - | - | - | 8.261.431 | 8.261.441 | - |
| 6 | 30 | - | - | - | - | 8.261.442 | 8.261.452 |

**HR-PEasy columns**

***Colonnes Chromabond LV-HR-P***

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg |
|---|---|---|---|---|
| 15 | 30 | 8.261.470 | 8.261.480 | 8.261.490 |

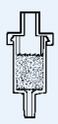


Chromabond LV columns
*Colonnes Chromabond LV*

**Chromafix HR-P cartridges**

***Cartouches Chromafix HR-P***

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 125 mg | 50 | 8.261.500 |
| 0.8 ml / 250 mg | 50 | 8.261.510 |
| 1.8 ml / 600 mg | 50 | 8.261.520 |

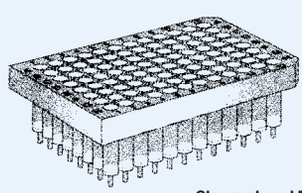


Chromafix HR-P cartridges
*Cartouches Chromafix*

**Chromabond Multi 96-HR-P**

***Modules à 96 puits Chromabond Multi 96-HR-P***

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | 8.261.550 |
| 96 x 50 mg | 1 | 8.261.560 |
| 96 x 100 mg | 1 | 8.261.560 |
| HR-P absorbent 20 g | 1 | 8.261.580 |



Chromabond Multi 96
*Modules à 96 puits Chromabond*

**Chromabond C18 ec polypropylene columns**
particle size 45 µm
**Applications:**
nonpolar compounds, aflatoxins, amphetamines, antibiotics, antiepileptics, barbiturates, caffeine, drugs, preservatives, fatty acids, nicotine, PAHs, pesticides, PCBs, heavy metals, vitamins and very well suited for desalting of samples

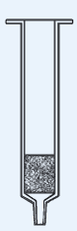
***Colonnes Chromabond C 18 ec en Polypropylène***
*porosité 45 µm*
***Applications:***
*composés non polaires, aflatoxines, amphétamines, antibiotiques, anti-épileptiques, barbiturates, caffeine, drogues, préservatifs, acides gras, nicotine, PAH, pesticides, PCB, métaux lourds. vitamines et également adapté au désalement d'échantillons.*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg | 2000 mg | 5 g | 10 g | 50 g |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 100 | 8.261.600 | - | - | - | - | - | - | - |
| 3 | 50 | | 8.261.611 | 8.261.621 | - | - | - | - | - |
| 6 | 30 | | - | 8.261.622 | 8.261.632 | 8.261.642 | - | - | - |
| 15 | 20 | | - | - | - | 8.261.643 | - | - | - |
| 45 | 20 | | - | - | - | - | 8.261.654 | - | - |
| 70 | 10 | | - | - | - | - | - | 8.261.665 | - |
| 150 | 10 | | - | - | - | - | - | - | 8.261.676 |

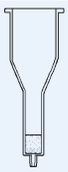
**Chromabond C 18 ec glass columns**
particle size 45 µm

***Colonnes Chromabond C18 ec en verre***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg | 2000 mg |
|---|---|---|---|---|---|---|
| 1 | 100 | 8.261.800 | - | - | - | |
| 3 | 50 | | 8.261.811 | 8.261.821 | - | |
| 6 | 30 | | - | 8.261.822 | 8.261.832 | 8.261.842 |



Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

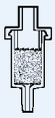


Chromabond LV columns
*Colonnes Chromabond LV*

**Chromabond LV-C18 ec columns**
particle size 45 µm

*Colonnes Chromabond LV-C18 ec*
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg |
|---|---|---|---|---|
| 15 | 30 | **8.261.850** | **8.261.860** | **8.261.870** |

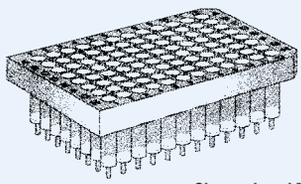


Chromafix HR-P cartridges
*Cartouches Chromafix*

**Chromafix C 18 ec cartridges**
particle size 45 µm

*Cartouches Chromafix C18 ec*
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 200 mg | 50 | **8.261.900** |
| 0.8 ml / 400 mg | 50 | **8.261.910** |
| 1.8 ml / 900 mg | 50 | **8.261.920** |



Chromabond Multi 96
*Modules à 96 puits Chromabond*

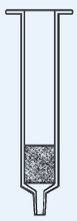
**Chromabond Multi 96 C 18 ec**

*Modules à 96 puits Chromabond Multi 96 C 18 ec*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | **8.261.950** |
| 96 x 50 mg | 1 | **8.261.960** |
| 96 x 100 mg | 1 | **8.261.960** |
| C 18 ec absorbent 100 g | 1 | **8.261.980** |

**Chromabond C18 ec f polyproplylene columns,** particle size 100 µm
**Applications:**
non polar compounds, aflatoxins, amphetamines, antibiotics, antiepileptics, barbiturates, caffeine, drugs, preservatives, fatty acids, nicotine, PAHs, pesticides, PCBs, heavy metals, vitamins and very well suited for desalting of samples

***Colonnes Chromabond C 18 ec f en Polypropylène,*** *porosité 100 µm*
***Applications:***
*composés non polaires, aflatoxines, amphétamines, antibiotiques, anti-épileptiques, barbiturates, caffeine, drogues, préservatifs, acides gras, nicotine, PAH, pesticides, PCB, métaux lourds. vitamines et également adapté au désalement d'échantillons*



Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|
| 1 | 100 | **8.262.000** | - | - | - |
| 3 | 50 | | **8.262.011** | **8.262.021** | - |
| 6 | 30 | | - | **8.262.022** | **8.262.032** |

**Chromabond C 18 ec f glass columns**
particle size 100 µm

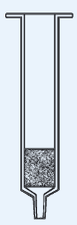
*Colonnes Chromabond C18 ec f en verre*
*porosité 100 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 500 mg | 1000 mg |
|---|---|---|---|---|
| 1 | 100 | **8.262.000** | - | - |
| 3 | 50 | - | **8.262.011** | - |
| 6 | 30 | - | - | **8.262.022** |

**Chromabond C 8 polyproplylene columns**
particle size 45 µm
**Applications:**
Pesticides, PCBs

***Colonnes Chromabond C 8 en Polypropylène,***
*porosité 45 µm*
***Applications:***
*Pesticides, PCB*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|
| 1 | 100 | **8.262.100** | - | - | - |
| 3 | 50 | | **8.262.111** | **8.262.121** | - |
| 6 | 30 | | - | **8.262.122** | **8.262.132** |



Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

**Chromabond C 8 glass columns**
particle size 45 µm

*Colonnes Chromabond C 8 en verre*
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|
| 1 | 100 | **8.262.150** | - | - | - |
| 3 | 50 | | **8.262.161** | **8.262.171** | - |
| 6 | 30 | | - | **8.262.172** | **8.262.182** |

**Chromabond LV-C 8 columns**
particle size 45 µm

***Colonnes Chromabond LV-C 8***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 500 mg |
|---|---|---|---|
| 15 | 30 | **8.262.200** | **8.262.210** |

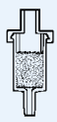


**Chromabond LV columns**
*Colonnes Chromabond LV*

**Chromafix C 8 cartridges**
particle size 45 µm

***Cartouches Chromafix C 8***
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 200 mg | 50 | **8.262.250** |
| 0.8 ml / 400 mg | 50 | **8.262.260** |
| 1.8 ml / 900 mg | 50 | **8.262.270** |

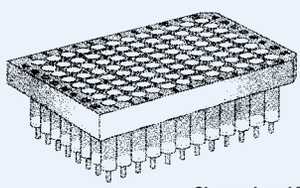


**Chromafix HR-P cartridges**
*Cartouches Chromafix*

**Chromabond Multi 96 C 8**

***Modules à 96 puits Chromabond Multi 96 C 8***

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | **8.262.300** |
| 96 x 50 mg | 1 | **8.262.310** |
| 96 x 100 mg | 1 | **8.262.320** |
| C 8 absorbent 100 g | 1 | **8.262.330** |

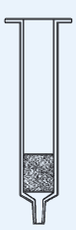


**Chromabond Multi 96**
*Modules à 96 puits Chromabond*

**Chromabond $C_6H_5$ polypropylene columns,** particle size 45 µm
**Applications:**
Aflatoxins, caffeine, phenols

***Colonnes Chromabond $C_6H_5$ en Polypropylène***
*porosité 45 µm*
***Applications:***
*Aflatoxines, caffeine et phénols*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg |
|---|---|---|---|---|
| 1 | 100 | **8.262.350** | - | - |
| 3 | 50 | - | **8.262.361** | **8.262.371** |



**Chromabond Polypropylene or glass columns**
*Colonnes Chromabond en Polypropylène ou en verre*

**Chromabond $C_6H_5$ glass columns**
particle size 45 µm

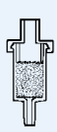
***Colonnes Chromabond $C_6H_5$ en verre***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 500 mg |
|---|---|---|---|
| 1 | 100 | **8.262.380** | - |
| 3 | 50 | - | **8.262.391** |

**Chromafix $C_6H_5$ cartridges**
particle size 45 µm

***Cartouches Chromafix $C_6H_5$***
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 200 mg | 50 | **8.262.400** |
| 0.8 ml / 400 mg | 50 | **8.262.410** |
| 1.8 ml / 900 mg | 50 | **8.262.420** |

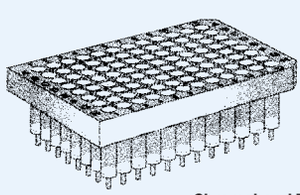


**Chromafix HR-P cartridges**
*Cartouches Chromafix*

**Chromabond Multi 96 $C_6H_5$**

***Modules à 96 puits Chromabond Multi 96 $C_6H_5$***

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | **8.262.450** |
| 96 x 50 mg | 1 | **8.262.460** |
| 96 x 100 mg | 1 | **8.262.470** |
| $C_6H_5$ absorbent 100 g | 1 | **8.262.480** |

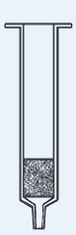


**Chromabond Multi 96**
*Modules à 96 puits Chromabond*

**Chromabond $NO_2$ polypropylene columns**
particle size 45 µm
**Applications:** aromatics

***Colonnes Chromabond $NO_2$ en Polypropylène***
*porosité 45 µm*
***Applications:*** *aromatiques*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 500 mg | 1000 mg |
|---|---|---|---|
| 3 | 50 | **8.262.500** | - |
| 6 | 30 | - | **8.262.511** |



**Chromabond Polypropylene or glass columns**
*Colonnes Chromabond en Polypropylène ou en verre*

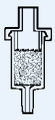


Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

## Chromabond $NO_2$ glass columns
particle size 45 µm

*Colonnes Chromabond $NO_2$ en verre*
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 500 mg |
|---|---|---|
| 3 | 50 | 8.262.520 |



Chromafix HR-P cartridges
*Cartouches Chromafix*

## Chromafix $NO_2$ cartridges
particle size 45 µm

*Cartouches Chromafix $NO_2$*
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.8 ml / 400 mg | 50 | 8.262.530 |



Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

## Chromabond $NH_2$ polyproplylene columns
particle size 45 µm
**Applications:**
trace elements, lipids

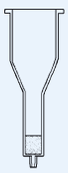
*Colonnes Chromabond $NH_2$ en Polypropylène,*
*porosité 45 µm*
***Applications:***
*analyses des traces, lipides*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|
| 1 | 100 | 8.262.550 | - | - | - |
| 3 | 50 | | 8.262.561 | 8.262.571 | - |
| 6 | 30 | | - | 8.262.572 | 8.262.582 |

## Chromabond $NH_2$ glass columns
particle size 45 µm

*Colonnes Chromabond $NH_2$ en verre*
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 500 mg | 1000 mg |
|---|---|---|---|---|
| 1 | 100 | 8.262.600 | - | - |
| 3 | 50 | - | 8.262.611 | - |
| 6 | 30 | - | 8.262.612 | 8.262.622 |

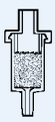


Chromabond LV columns
*Colonnes Chromabond LV*

## Chromabond LV-$NH_2$ columns
particle size 45 µm

*Colonnes Chromabond LV-$NH_2$*
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 500 mg |
|---|---|---|---|
| 15 | 30 | 8.262.630 | 8.262.640 |

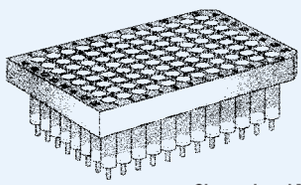


Chromafix HR-P cartridges
*Cartouches Chromafix*

## Chromafix $NH_2$ cartridges
particle size 45 µm

*Cartouches Chromafix $NH_2$*
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 200 mg | 50 | 8.262.650 |
| 0.8 ml / 400 mg | 50 | 8.262.660 |
| 1.8 ml / 900 mg | 50 | 8.262.670 |

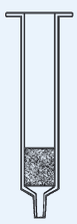


Chromabond Multi 96
*Modules à 96 puits Chromabond*

## Chromabond Multi 96 $NH_2$

*Modules à 96 puits Chromabond Multi 96 $NH_2$*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | 8.262.700 |
| 96 x 50 mg | 1 | 8.262.710 |
| 96 x 100 mg | 1 | 8.262.720 |
| $NH_2$ absorbent 100 g | 1 | 8.262.730 |



Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

## Chromabond CN (canopropyl silica) polyproplylene columns
particle size 45 µm
**Applications:**
Cyclosporins, Carbohydrates

*Colonnes Chromabond CN en Polypropylène*
*porosité 45 µm*
***Applications:***
*cyclosporines, carbohydrates*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg |
|---|---|---|---|---|
| 1 | 100 | 8.262.750 | - | - |
| 3 | 50 | - | 8.262.761 | 8.262.771 |
| 3 | 50 | - | - | 8.262.772 |

**Chromabond CN glass columns**
particle size 45 µm

***Colonnes Chromabond CN en verre***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 500 mg |
|---|---|---|---|
| 1 | 100 | 8.262.780 | - |
| 3 | 50 | - | 8.262.791 |
| 6 | 30 | - | 8.262.792 |

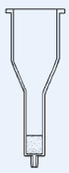


Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

**Chromabond LV-CN columns**
particle size 45 µm

***Colonnes Chromabond LV-CN***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 200 mg |
|---|---|---|
| 15 | 30 | 8.262.800 |

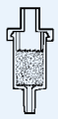


Chromabond LV columns
*Colonnes Chromabond LV*

**Chromafix CN cartridges**
particle size 45 µm

***Cartouches Chromafix CN***
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 200 mg | 50 | 8.262.810 |
| 0.8 ml / 400 mg | 50 | 8.262.820 |
| 1.8 ml / 900 mg | 50 | 8.262.830 |

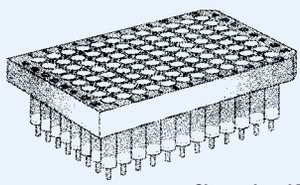


Chromafix HR-P cartridges
*Cartouches Chromafix*

**Chromabond Multi 96 CN**

***Modules à 96 puits Chromabond Multi 96 CN***

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | 8.262.850 |
| 96 x 50 mg | 1 | 8.262.860 |
| 96 x 100 mg | 1 | 8.262.870 |
| CN absorbent 100 g | 1 | 8.262.880 |



Chromabond Multi 96
*Modules à 96 puits Chromabond*

**Chromabond SiHO polypropylene columns**
particle size 45 µm
**Applications:**
Aflatoxins, chloramphenicol, pesticides, steroids, vitamins

***Colonnes Chromabond SiHO en Polypropylène***
*porosité 45 µm*
***Applications:***
*Aflatoxines, chloramphénicol, pesticides, stéroides, vitamines*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg | 2000 mg | 5 g | 10 g | 50 g |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 100 | 8.261.900 | - | - | - | - | - | - | - |
| 3 | 50 | | 8.261.911 | 8.261.921 | - | - | - | - | - |
| 6 | 30 | | - | 8.261.922 | 8.261.932 | 8.261.942 | - | - | - |
| 15 | 20 | | - | - | - | 8.261.943 | - | - | - |
| 45 | 20 | | - | - | - | - | 8.261.954 | - | - |
| 70 | 10 | | - | - | - | - | - | 8.261.965 | - |
| 150 | 10 | | - | - | - | - | - | - | 8.261.976 |

**Chromabond SiHO glass columns**
particle size 45 µm

***Colonnes Chromabond SiHO en verre***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg | 2000 mg |
|---|---|---|---|---|---|---|
| 1 | 100 | 8.263.000 | - | - | - | |
| 3 | 50 | | 8.263.011 | 8.263.021 | - | |
| 6 | 30 | | - | 8.263.022 | 8.263.032 | 8.263.042 |

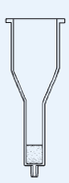


Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

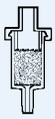
**Chromabond LV-SiOH columns**
particle size 45 µm

***Colonnes Chromabond LV-SiOH***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg |
|---|---|---|---|---|
| 15 | 30 | 8.263.050 | 8.263.060 | 8.263.070 |



Chromabond LV columns
*Colonnes Chromabond LV*

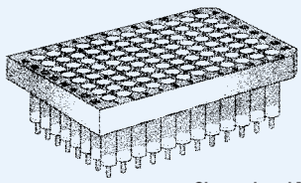


Chromafix HR-P cartridges
*Cartouches Chromafix*

### Chromafix SiOH cartridges
particle size 45 µm

*Cartouches Chromafix SiOH*
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 200 mg | 50 | **8.263.100** |
| 0.8 ml / 400 mg | 50 | **8.263.110** |
| 1.8 ml / 900 mg | 50 | **8.263.120** |



Chromabond Multi 96
*Modules à 96 puits Chromabond*

### Chromabond Multi 96 SiOH

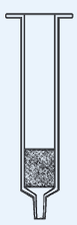
*Modules à 96 puits Chromabond Multi 96 SiOH*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | **8.263.150** |
| 96 x 50 mg | 1 | **8.263.160** |
| 96 x 100 mg | 1 | **8.263.170** |
| SiOH absorbent 100 g | 1 | **8.263.180** |

### Chromabond Florisil (magnesium silicate) polypropylene columns
particle size 150 - 250 µm
**Applications:**
Organic tin compounds, aliphatic carboxylic acids, PCBs, PAHs

*Colonnes Chromabond Florisil en Polypropylène, porosité 150 - 250 µm*
***Applications:***
*composés d'étain organique, aliphatique, acides caboxylique, PCB et PAH*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|---|
| 1 | 100 | **8.263.200** | - | - | - |
| 3 | 50 | | **8.263.211** | **8.263.221** | - |
| 6 | 30 | | - | **8.263.222** | **8.263.232** |

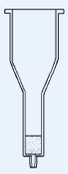


Chromabond Polypropylene or glass columns
*Colonnes Chromabond en Polypropylène ou en verre*

### Chromabond Florisil glass columns
particle size 150 - 250 µm

*Colonnes Chromabond Florisil en verre*
*porosité 150 - 250 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 200 mg | 500 mg | 1000 mg |
|---|---|---|---|---|
| 3 | 50 | **8.263.250** | **8.263.260** | - |
| 6 | 30 | - | - | **8.263.271** |

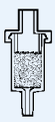


Chromabond LV columns
*Colonnes Chromabond LV*

### Chromabond LV-Florisil columns
particle size 150 - 250 µm

*Colonnes Chromabond LV-Florisil*
*porosité 150 - 250 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg | 500 mg |
|---|---|---|---|---|
| 15 | 30 | **8.263.300** | **8.263.310** | **8.263.320** |

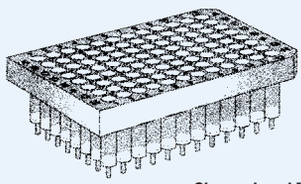


Chromafix HR-P cartridges
*Cartouches Chromafix*

### Chromafix Florisil cartridges
particle size 150 - 250 µm

*Cartouches Chromafix Florisil*
*porosité 150 - 250 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 200 mg | 50 | **8.263.350** |
| 0.8 ml / 400 mg | 50 | **8.263.360** |
| 1.8 ml / 900 mg | 50 | **8.263.370** |



Chromabond Multi 96
*Modules à 96 puits Chromabond*

### Chromabond Multi 96 Florisil

*Modules à 96 puits Chromabond Multi 96 Florisil*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | **8.263.400** |
| 96 x 50 mg | 1 | **8.263.410** |
| 96 x 100 mg | 1 | **8.263.420** |
| SiOH absorbent 100 g | 1 | **8.263.430** |

## SPE phases for pharmaceutical applications

## *Produits d'extraction SPE pour la pharmacologie*

**Chromabond Drug polyproplylene columns**
particle size 45 µm
**Applications:**
analysis of drugs – enrichment of acidic, neutral and basic drugs from urine or plasma

***Colonnes Chromabond Drug en Polypropylène***
*porosité 45 µm*
***Applications:***
*analyses des médicaments, enrichissement de l'acidique, médicaments neutres et basiques de l'urine ou du plasma*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 200 mg |
|---|---|---|
| 3 | 50 | 8.263.440 |

**Chromabond Drug glass columns**
particle size 45 µm

***Colonnes Chromabond Drug en verre***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 200 mg |
|---|---|---|
| 3 | 50 | 8.263.450 |

**Chromabond LV-Drug columns**
particle size 45 µm

***Colonnes Chromabond LV-Drug***
*porosité 45 µm*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 100 mg | 200 mg |
|---|---|---|---|
| 15 | 30 | 8.263.460 | 8.263.470 |

**Chromafix Drug cartridges**
particle size 45 µm

***Cartouches Chromafix Drug***
*porosité 45 µm*

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 120 mg | 50 | 8.263.480 |

**Chromabond Multi 96 Drug**

***Modules à 96 puits Chromabond Multi 96 Drug***

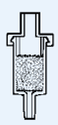
| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 96 x 25 mg | 1 | 8.263.500 |
| 96 x 50 mg | 1 | 8.263.510 |
| 96 x 100 mg | 1 | 8.263.520 |



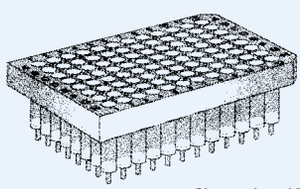
**Chromabond Polypropylene or glass columns**
*Colonnes Chromabond en Polypropylène ou en verre*



**Chromabond LV columns**
*Colonnes Chromabond LV*



**Chromafix HR-P cartridges**
*Cartouches Chromafix*



**Chromabond Multi 96**
*Modules à 96 puits Chromabond*

## SPE phases for environmental applications

## *Produits d'extraction SPE pour analyses de l'environnement*

**Chromabond CN/SiOH polypropylene columns**
**Applications:**
for extraction of the 16 PAHs from soil samples acc. to EPA

***Colonnes Chromabond CN/SiOH en Polypropylène***
***Applications:***
*pour l'extraction de 16 PAH dans les échantillons de sol selon EPA*

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 500/1000 mg |
|---|---|---|
| 3 | 50 | 8.263.530 |
| 6 | 30 | 8.263.531 |

**Chromabond CN/SiOH glass columns**

***Colonnes Chromabond CN/SiOH en verre***

| Volume<br>*Volume*<br>ml | Pack of<br>*Conditionnement*<br>pcs. | 500/1000 mg |
|---|---|---|
| 3 | 50 | 8.263.540 |
| 6 | 30 | 8.263.541 |

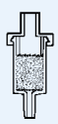
**Chromafix CN/SiOH cartridges**

***Cartouches Chromafix CN/SiOH***

| Description<br>*Description* | Pack of<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 0.4 ml / 120 mg | 50 | 8.263.550 |



**Chromabond Polypropylene or glass columns**
*Colonnes Chromabond en Polypropylène ou en verre*



**Chromafix HR-P cartridges**
*Cartouches Chromafix*

## Hallow Cathode Lamps

### *Lampes à Cathode Creuse*

Hollow cathode lamps non-coded with 37 mm in diameter are suitable for Atomic Absorption Spectrometers from Varian, Aurora, Analytic Jena, GBC, Unicam, Shimadzu, Thermo.
For Perkin Elmer AAS the HCL-lamps are supplied with a diameter of 50 mm

(we can also supply on request Coded-HCL lamps for Varian and Perkin Elmer. Please state always in your inquiries the Model of AAS that you are using.)

*Lampes à cathode creuse non-codées d'un diamètre de 37 mm compatibles avec les spectromètres d'absorption atomique de Varian, Aurora, Analytic Jena, GBC, Unicam, Shimadzu, Thermo....*
*Pour les instruments de Perkin-Elmer les lampes sont d'un diamètre de 50 mm.*

*(Sur demande, nous livrons aussi des lampes à cathode creuse codées pour Varian et Perkin Elmer. SVP indiquer le modèle de votre instrument).*



**Single-element Hollow Cathode Lamps**

***Lampes à cathode creuse, mono-élément***

| **Element**<br>***Elément*** | **Order No.**<br>***N° de code***<br>**37 mm Ø** | **Order No.**<br>***N° de code***<br>**50 mm Ø**<br>**Perkin Elmer** |
|---|---|---|
| Al | **8.264.000** | **8.264.100** |
| Sb | **8.264.001** | **8.264.101** |
| As | **8.264.002** | **8.264.102** |
| Ba | **8.264.003** | **8.264.103** |
| Be | **8.264.004** | **8.264.104** |
| Pb | **8.264.005** | **8.264.105** |
| B | **8.264.006** | **8.264.106** |
| Cs | **8.264.007** | **8.264.107** |
| Ce | **8.264.008** | **8.264.108** |
| Cr | **8.264.009** | **8.264.109** |
| Dy | **8.264.010** | **8.264.110** |
| Fe | **8.264.011** | **8.264.111** |
| Er | **8.264.012** | **8.264.112** |
| Eu | **8.264.013** | **8.264.113** |
| Gd | **8.264.014** | **8.264.114** |
| Ga | **8.264.015** | **8.264.115** |
| Ge | **8.264.016** | **8.264.116** |
| Au | **8.264.017** | **8.264.117** |
| Hg | **8.264.018** | **8.264.118** |
| Ho | **8.264.019** | **8.264.119** |
| In | **8.264.020** | **8.264.120** |
| Ir | **8.264.021** | **8.264.121** |
| Cd | **8.264.022** | **8.264.122** |
| K | **8.264.023** | **8.264.123** |
| Ca | **8.264.024** | **8.264.124** |
| Co | **8.264.025** | **8.264.125** |
| Cu | **8.264.026** | **8.264.126** |
| La | **8.264.027** | **8.264.127** |
| Li | **8.264.028** | **8.264.128** |
| Lu | **8.264.029** | **8.264.129** |
| Mg | **8.264.030** | **8.264.130** |
| Mn | **8.264.031** | **8.264.131** |
| Mo | **8.264.032** | **8.264.132** |
| Na | **8.264.033** | **8.264.133** |
| Nd | **8.264.034** | **8.264.134** |
| Ni | **8.264.035** | **8.264.135** |
| Nb | **8.264.036** | **8.264.136** |
| Os | **8.264.037** | **8.264.137** |
| Pd | **8.264.038** | **8.264.138** |
| P | **8.264.039** | **8.264.139** |
| Pt | **8.264.040** | **8.264.140** |
| Pr | **8.264.041** | **8.264.141** |
| Hg | **8.264.042** | **8.264.142** |
| Re | **8.264.043** | **8.264.143** |
| Rh | **8.264.044** | **8.264.144** |
| Rb | **8.264.045** | **8.264.145** |
| Ru | **8.264.046** | **8.264.146** |
| Sm | **8.264.047** | **8.264.147** |
| Sc | **8.264.048** | **8.264.148** |
| Se | **8.264.049** | **8.264.149** |
| Ag | **8.264.050** | **8.264.150** |
| Si | **8.264.051** | **8.264.151** |
| Sr | **8.264.052** | **8.264.152** |
| Ta | **8.264.053** | **8.264.153** |

## Single-element Hollow Cathode Lamps

*Lampes à cathode creuse, mono-élément*

| Element<br>*Elément* | Order No.<br>*N° de code*<br>37 mm Ø | Order No.<br>*N° de code*<br>50 mm Ø<br>Perkin Elmer |
|---|---|---|
| Te | 8.264.054 | 8.264.154 |
| Tb | 8.264.055 | 8.264.155 |
| Tl | 8.264.056 | 8.264.156 |
| Th | 8.264.057 | 8.264.157 |
| Tm | 8.264.058 | 8.264.158 |
| Ti | 8.264.059 | 8.264.159 |
| U | 8.264.060 | 8.264.160 |
| V | 8.264.061 | 8.264.161 |
| D2 | 8.264.062 | 8.264.162 |
| Bi | 8.264.063 | 8.264.163 |
| W | 8.264.064 | 8.264.164 |
| Zn | 8.264.065 | 8.264.165 |
| Sn | 8.264.066 | 8.264.166 |
| Zr | 8.264.067 | 8.264.167 |

## Two-element Hollow Cathode Lamps

*Lampes à cathode creuse, à deux éléments*

| Element<br>*Elément* | Order No.<br>*N° de code*<br>37 mm Ø | Order No.<br>*N° de code*<br>50 mm Ø<br>Perkin Elmer |
|---|---|---|
| Al/Ca | 8.264.200 | 8.264.300 |
| Al/Mg | 8.264.201 | 8.264.301 |
| Al/Si | 8.264.202 | 8.264.302 |
| Al/Ti | 8.264.203 | 8.264.303 |
| Ba/Sr | 8.264.204 | 8.264.304 |
| Cr/Co | 8.264.205 | 8.264.305 |
| Cr/Cu | 8.264.206 | 8.264.306 |
| Cr/Fe | 8.264.207 | 8.264.307 |
| Cr/Mn | 8.264.208 | 8.264.308 |
| Cr/Mo | 8.264.209 | 8.264.309 |
| Cr/Ni | 8.264.210 | 8.264.310 |
| Fe/Mn | 8.264.211 | 8.264.311 |
| Fe/Mo | 8.264.212 | 8.264.312 |
| Fe/Ni | 8.264.213 | 8.264.313 |
| Fe/Zn | 8.264.214 | 8.264.314 |
| Au/Cu | 8.264.215 | 8.264.315 |
| Au/Ni | 8.264.216 | 8.264.316 |
| Au/Pt | 8.264.217 | 8.264.317 |
| Au/Ag | 8.264.218 | 8.264.318 |
| Cd/Zn | 8.264.219 | 8.264.319 |
| Ca/Ba | 8.264.220 | 8.264.320 |
| Ca/Mg | 8.264.221 | 8.264.321 |
| Ca/Si | 8.264.222 | 8.264.322 |
| Ca/Sr | 8.264.223 | 8.264.323 |
| Ca/Zn | 8.264.224 | 8.264.324 |
| Co/Cu | 8.264.225 | 8.264.325 |
| Co/Fe | 8.264.226 | 8.264.326 |
| Co/Mn | 8.264.227 | 8.264.327 |
| Co/Mo | 8.264.228 | 8.264.328 |
| Co/Ni | 8.264.229 | 8.264.329 |
| Cu/Fe | 8.264.230 | 8.264.330 |
| Cu/Mn | 8.264.231 | 8.264.331 |
| Cu/Mo | 8.264.232 | 8.264.332 |
| Cu/Ni | 8.264.233 | 8.264.333 |
| Cu/Zn | 8.264.234 | 8.264.334 |
| Mg/Si | 8.264.235 | 8.264.335 |
| Mn/Mo | 8.264.236 | 8.264.336 |
| Mn/Ni | 8.264.237 | 8.264.337 |
| Mn/Zn | 8.264.238 | 8.264.338 |
| Na/K | 8.264.239 | 8.264.339 |
| Pt/Ag | 8.264.240 | 8.264.340 |
| Ag/Cr | 8.264.241 | 8.264.341 |
| Ag/Cu | 8.264.242 | 8.264.342 |
| Si/Ti | 8.264.243 | 8.264.343 |





**Three-element Hollow Cathode Lamps** *Lampes à cathode creuse, à trois éléments*

| Element<br>*Elément* | Order No.<br>*N° de code*<br>37 mm Ø | Order No.<br>*N° de code*<br>50 mm Ø<br>Perkin Elmer |
|---|---|---|
| Al/Ca/Mg | **8.264.400** | **8.264.500** |
| Al/Si/Ti | **8.264.401** | **8.264.501** |
| As/Sb/Bi | **8.264.402** | **8.264.502** |
| As/Se/Te | **8.264.403** | **8.264.503** |
| Cr/Co/Cu | **8.264.404** | **8.264.504** |
| Cr/Co/Fe | **8.264.405** | **8.264.505** |
| Cr/Co/Mn | **8.264.406** | **8.264.506** |
| Cr/Co /Ni | **8.264.407** | **8.264.507** |
| Cr/Cu/Fe | **8.264.408** | **8.264.508** |
| Cr/Cu/Mn | **8.264.409** | **8.264.509** |
| Cr/Cu/Ni | **8.264.410** | **8.264.510** |
| Cr/Fe/Mn | **8.264.411** | **8.264.511** |
| Cr/Fe/Ni | **8.264.412** | **8.264.512** |
| Cr/Mn/Ni | **8.264.413** | **8.264.513** |
| Fe/Mn/Ni | **8.264.414** | **8.264.514** |
| Fe/Mn/Zn | **8.264.415** | **8.264.515** |
| Au/Cu/Ni | **8.264.416** | **8.264.516** |
| Au/Pt/Ag | **8.264.417** | **8.264.517** |
| Ca/Ba/Sr | **8.264.418** | **8.264.518** |
| Ca/Mg/Si | **8.264.419** | **8.264.519** |
| Ca/Mg/Zn | **8.264.420** | **8.264.520** |
| Co/Cu/Fe | **8.264.421** | **8.264.521** |
| Co/Cu/Mn | **8.264.422** | **8.264.522** |
| Co/Cu/Ni | **8.264.423** | **8.264.523** |
| Co/Fe/Ni | **8.264.424** | **8.264.524** |
| Co/Fe/Mn | **8.264.425** | **8.264.525** |
| Co/Mn/Ni | **8.264.426** | **8.264.526** |
| Cu/Fe/Mn | **8.264.427** | **8.264.527** |
| Cu/Fe/Ni | **8.264.428** | **8.264.528** |
| Cu/Fe/Zn | **8.264.429** | **8.264.529** |
| Cu/Mn/Ni | **8.264.430** | **8.264.530** |
| Cu/Mn/Zn | **8.264.431** | **8.264.531** |
| Mo/Cr/Co | **8.264.432** | **8.264.532** |
| Mo/Cr/Cu | **8.264.433** | **8.264.533** |
| Mo/Cr/Fe | **8.264.434** | **8.264.534** |
| Mo/Cr/Mn | **8.264.435** | **8.264.535** |
| Mo/Co/Cu | **8.264.436** | **8.264.536** |
| Mo/Co/Mn | **8.264.437** | **8.264.537** |
| Mo/Co/Fe | **8.264.438** | **8.264.538** |
| Mo/Cu/Fe | **8.264.439** | **8.264.539** |
| Mo/Cu/Mn | **8.264.440** | **8.264.540** |
| Mo/Fe/Mn | **8.264.441** | **8.264.541** |
| Ag/Cr/Cu | **8.264.442** | **8.264.542** |
| Ag/Cu/Ni | **8.264.443** | **8.264.543** |




**Atomic Absorbtion Spectrometer from Aurora-Instriments**
**our partner in the laboratory world**

## Standards for the Atomic Absorbtion Spectrometry

*Solutions étalons pour SAA*

**Atomic absorbtion spectroscopy calibration standads,** in bottles of 500 ml, concentration 1000 ppm

***Etalons de calibration pour la spectrométrie d'Absorption Atomique,*** *en flacon de 500 ml, concentration 1000 ppm*

| **Description** *Description* | | **Order No.** *N° de code* |
|---|---|---|
| Aluminium | (Al) | **8.264.600** |
| Antimony | (Sb) | **8.264.601** |
| Arsenic (III) | (As) | **8.264.602** |
| Barium | (Ba) | **8.264.603** |
| Beryllium | (Be) | **8.264.604** |
| Bismuth | (Bi) | **8.264.605** |
| Boron | (B) | **8.264.606** |
| Cadmium | (Cd) | **8.264.607** |
| Calcium | (Ca) | **8.264.608** |
| Cesium | (Cs) | **8.264.609** |
| Chromium | (Cr) | **8.264.610** |
| Cobalt | (Co) | **8.264.611** |
| Copper | (Cu) | **8.264.612** |
| Gadolinium | (Gd) | **8.264.613** |
| Gallium | (Ga) | **8.264.614** |
| Gold | (Au) | **8.264.615** |
| Indium | (In) | **8.264.616** |
| Iron | (Fe) | **8.264.617** |
| Lanthanum | (La) | **8.264.618** |
| Lead | (Pb) | **8.264.619** |
| Lithium | (Li) | **8.264.620** |
| Magnesium | (Mg) | **8.264.621** |
| Manganese | (Mn) | **8.264.622** |
| Mercury | (Hg) | **8.264.623** |
| Molybdenum | (Mo) | **8.264.624** |
| Nickel | (Ni) | **8.264.625** |
| Palladium | (Pa) | **8.264.626** |
| Phosphorus | (P) | **8.264.627** |
| Platinum | (Pl) | **8.264.628** |
| Potassium | (K) | **8.264.629** |
| Rhodium | (Rh) | **8.264.630** |
| Selenium | (Se) | **8.264.631** |
| Silica | (Si) | **8.264.632** |
| Silver | (Ag) | **8.264.633** |
| Sodium | (Na) | **8.264.634** |
| Strontium | (Sr) | **8.264.635** |
| Sulphur | (S) | **8.264.636** |
| Tellurium | (Te) | **8.264.637** |
| Thallium | (Tl) | **8.264.638** |
| Tin | (Sn) | **8.264.639** |
| Titanium | (Ti) | **8.264.640** |
| Vanadium | (V) | **8.264.641** |
| Zinc | (Zn) | **8.264.642** |
| Zirconium | (Zr) | **8.264.643** |

We can supply also Multi-Element Standards for the Plasma Emission Spectroscopy (ICP) customised for every application.
Please indicate in your inquiry which elements you would like to combine, the concentrations and the matrices.
*Sur demande, nous pouvons aussi livrer des étalons à mutli-éléments pour la spectrométrie à torche à plasma (ICP).*
*SVP détailler les éléments, les concentations et les matrices.*

**For cuvettes and calibration standards, please refer to pages 257 to 262**

***Pour les cuvettes et les étalons de calibration, veuillez svp vous référer aux pages 257 à 262***

## Alumina $Al_2O_3$ content >99%

### *Alumine $Al_2O_3$ teneur > 99%*

High purity alumina (Al2O3 content > 99.7%) oxide ceramic is ideal for high temperature applications up to 1700°C/1850°C max.

Such high purity alumina shows considerable resistance to chemical attack due to the lack of glassy phases that tend to determine corrosion resistance, with the exception of: highly concentrated hydrofluoric acid, boiling phosphoric acid, boiling potassium hydroxide solution and sodium hydroxide solution.

*L'Alumine (Al2O3) à haute pureté (99.7%), est une céramique oxyde idéale pour les travaux en haute température jusqu'à 1700°C/1850°C max. Très bonne tenue en milieu oxydant. Grâce à sa haute résistance elle convient aux attaques chimiques, à l'exception de l'acide hydrofluorhydrique concentré, à l'acide phosphorique en ébullition et aux solutions d'hydroxide de potassium ou de sodium en ébullition*

## Zirconia $ZrO_2$

### *Zircone $ZrO_2$*

Zirconia ($ZrO_2$) is suitable for melting of alloys or super-alloys at very high temperatures up to 2000 °C and it offers three advantages over alumina: it is more refractory, having a melting point some 500 °C above alumina, it is readily machined and gives a high quality surface finish.

Zirconia has the complication of being metastable and needs to be stabilised before it can be put to use. The addition of small quantities of stabilising oxides such as CaO, MgO and best of all $Y_2O_3$ allow the high temperature cubic phase to stabilise itself. Partially stabilised zirconia can also be used as a toughening agent in alumina.

*Le Zircone ($ZrO_2$) est une matière stabilisée à la chaux (CaO) servant aux fusions d'alliages ou de super-alliages à très haute température jusqu'à 2000 °C max. Porosité nulle donc sans absence de dégagement gazeux. Bonne inertie chimique à l'exception de l'acide et de l'oxyde fluorhydrique. Bonne tenue en milieu oxydant.*

## Crucibles made of Alumina ($Al_2O_3$) or Zirconia ($ZrO_2$)

### *Creusets en alumine ($Al_2O_3$) ou en zircone ($ZrO_2$)*

**Cylindrical crucibles,** without lid

***Creusets cylindriques,** sans couvercle*



| Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement* | Alumina<br>*Alumine* | Zirconia<br>*Zircone* |
|---|---|---|---|---|---|---|
| 12 | 8.2 | 18 | 0.85 | 10 | **8.500.100** | **8.500.200** |
| 12 | 8.2 | 22 | 1.0 | 10 | **8.500.101** | **8.500.201** |
| 25.5 | 22 | 14 | 4.5 | 10 | **8.500.102** | **8.500.202** |
| 21 | 18 | 25 | 5.0 | 10 | **8.500.103** | **8.500.203** |
| 16 | 12.5 | 21 | 2.5 | 10 | **8.500.104** | **8.500.204** |
| 27 | 23 | 32 | 10 | 10 | **8.500.105** | **8.500.205** |
| 27.5 | 23 | 53 | 18 | 10 | **8.500.106** | **8.500.206** |
| 22 | 18 | 80 | 20 | 10 | **8.500.107** | **8.500.207** |
| 33 | 28.5 | 33 | 20 | 10 | **8.500.108** | **8.500.208** |
| 42 | 38 | 33 | 27 | 10 | **8.500.109** | **8.500.209** |
| 33 | 28.5 | 46 | 30 | 10 | **8.500.110** | **8.500.210** |
| 33 | 28.5 | 64 | 40 | 10 | **8.500.111** | **8.500.211** |
| 30 | 24 | 210 | 140 | 5 | **8.500.112** | **8.500.212** |
| 40 | 35 | 90 | 90 | 10 | **8.500.113** | **8.500.213** |
| 44 | 37 | 110 | 110 | 5 | **8.500.114** | **8.500.214** |
| 47 | 40 | 49 | 53 | 10 | **8.500.115** | **8.500.215** |
| 33 | 28.5 | 90 | 55 | 10 | **8.500.116** | **8.500.216** |
| 40 | 33 | 60 | 75 | 10 | **8.500.117** | **8.500.217** |
| 48 | 43 | 65 | 85 | 10 | **8.500.118** | **8.500.218** |
| 48 | 43 | 80 | 100 | 10 | **8.500.119** | **8.500.219** |
| 62 | 57 | 62 | 140 | 5 | **8.500.120** | **8.500.220** |
| 56 | 50 | 100 | 175 | 5 | **8.500.121** | **8.500.221** |
| 68 | 62 | 71 | 200 | 5 | **8.500.122** | **8.500.222** |
| 63 | 56 | 107 | 230 | 5 | **8.500.123** | **8.500.223** |
| 60 | 55 | 120 | 280 | 5 | **8.500.124** | **8.500.224** |
| 80 | 73 | 85 | 300 | 1 | **8.500.125** | **8.500.225** |
| 69 | 62 | 105 | 340 | 1 | **8.500.126** | **8.500.226** |
| 92 | 86 | 80 | 420 | 1 | **8.500.127** | **8.500.227** |
| 92 | 86 | 100 | 500 | 1 | **8.500.128** | **8.500.228** |
| 112 | 100 | 98 | 830 | 1 | **8.500.129** | **8.500.229** |
| 112 | 100 | 168 | 1300 | 1 | **8.500.130** | **8.500.230** |
| 128 | 123 | 167 | 1900 | 1 | **8.500.131** | **8.500.231** |
| 150 | 140 | 162 | 2200 | 1 | **8.500.132** | **8.500.232** |

**Circular crucibles,** with tapered wall, without lid

***Creusets cylindriques,*** *paroie mince, sans couvercle*

| Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Alumina<br>*Alumine* | Zirconia<br>*Zircone* |
|---|---|---|---|---|---|---|
| 8 | 6 | 10 | 0.3 | 10 | **7.300.150** | **7.300.250** |
| 21 | 19 | 18 | 4 | 10 | **7.300.151** | **7.300.251** |
| 26 | 22 | 29 | 8 | 10 | **7.300.152** | **7.300.252** |
| 36 | 29 | 45 | 23 | 10 | **7.300.153** | **7.300.253** |
| 36 | 31 | 120 | 65 | 10 | **7.300.154** | **7.300.254** |
| 43 | 38 | 58 | 50 | 10 | **7.300.155** | **7.300.255** |
| 52 | 48 | 76 | 100 | 10 | **7.300.156** | **7.300.256** |
| 53 | 47 | 94 | 120 | 5 | **7.300.157** | **7.300.257** |
| 69 | 49 | 60 | 125 | 5 | **7.300.158** | **7.300.258** |
| 73 | 67 | 47 | 150 | 5 | **7.300.159** | **7.300.259** |
| 75 | 69 | 185 | 500 | 5 | **7.300.160** | **7.300.260** |
| 92 | 80 | 45 | 190 | 5 | **7.300.161** | **7.300.261** |
| 90 | 85 | 165 | 590 | 5 | **7.300.162** | **7.300.262** |
| 102 | 92 | 145 | 700 | 1 | **7.300.163** | **7.300.263** |
| 106 | 96 | 165 | 800 | 1 | **7.300.164** | **7.300.264** |



**Standard crucibles,** without lid

***Creusets forme standard,*** *sans couvercle*

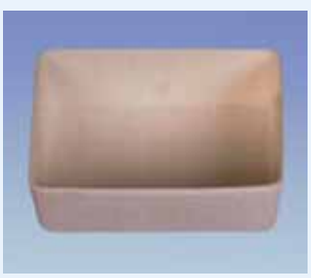
| Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Alumina<br>*Alumine* | Zirconia<br>*Zircone* |
|---|---|---|---|---|---|---|
| 31 | 22 | 28 | 14 | 10 | **7.300.170** | **7.300.270** |
| 42 | 36 | 41 | 30 | 10 | **7.300.171** | **7.300.271** |
| 42 | 29 | 48 | 45 | 10 | **7.300.172** | **7.300.272** |
| 52 | 47 | 62 | 80 | 10 | **7.300.173** | **7.300.273** |
| 59 | 55 | 61 | 95 | 10 | **7.300.174** | **7.300.274** |
| 80 | 73 | 90 | 280 | 5 | **7.300.175** | **7.300.275** |
| 81 | 74 | 107 | 350 | 5 | **7.300.176** | **7.300.276** |



**Rectangular crucibles,** without lid

***Creusets rectangulaires,*** *sans couvercle*

| Length<br>*Longueur*<br>mm | Width<br>*Largeur*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Alumina<br>*Alumine* | Zirconia<br>*Zircone* |
|---|---|---|---|---|---|---|
| 59 | 27.5 | 28 | 27 | 10 | **7.300.190** | **7.300.290** |
| 74 | 53 | 15 | 34 | 10 | **7.300.191** | **7.300.291** |
| 82 | 42 | 23 | 60 | 10 | **7.300.192** | **7.300.292** |
| 84 | 39 | 41 | 90 | 5 | **7.300.193** | **7.300.293** |
| 103 | 51 | 26 | 100 | 5 | **7.300.194** | **7.300.294** |
| 86 | 63 | 30 | 105 | 5 | **7.300.195** | **7.300.295** |
| 84 | 58 | 41 | 140 | 5 | **7.300.196** | **7.300.296** |



## Dishes made of Alumina ($Al_2O_3$) or Zirconia ($ZrO_2$)

*Capsules en alumine ($Al_2O_3$) ou en zircone ($ZrO_2$)*

**Round shallow dishes**

***Capsules,*** *à fond plat*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Alumina<br>*Alumine* | Zirconia<br>*Zircone* |
|---|---|---|---|---|---|
| 19 | 5 | 1.0 | 10 | **7.300.300** | **7.300.400** |
| 42 | 14.5 | 12 | 10 | **7.300.301** | **7.300.401** |
| 52 | 14 | 22 | 10 | **7.300.302** | **7.300.402** |
| 50 | 25 | 35 | 10 | **7.300.303** | **7.300.403** |
| 62 | 18 | 36 | 10 | **7.300.304** | **7.300.404** |
| 69 | 23 | 60 | 10 | **7.300.305** | **7.300.405** |
| 62 | 40 | 80 | 10 | **7.300.306** | **7.300.406** |
| 81 | 30 | 120 | 5 | **7.300.307** | **7.300.407** |
| 120 | 40 | 112 | 5 | **7.300.308** | **7.300.408** |
| 115 | 22 | 180 | 5 | **7.300.309** | **7.300.409** |
| 84 | 57 | 240 | 5 | **7.300.310** | **7.300.410** |
| 94 | 54 | 280 | 5 | **7.300.311** | **7.300.411** |
| 140 | 40 | 500 | 1 | **7.300.312** | **7.300.412** |



## Boats made of Alumina ($Al_2O_3$) or Zirconia ($ZrO_2$)
*Nacelles en alumine ($Al_2O_3$) ou zircone ($ZrO_2$)*



**Combustion boats,** without tail and hole

***Nacelles de combustion,*** *forme allongée, sans anneau*

| Out. Length<br>*Long. ext.*<br>mm | In. length<br>*Long. int.*<br>mm | Depth<br>*Profondeur*<br>mm | Width<br>*Largeur*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Alumina<br>*Alumine* | Zirconia<br>*Zircone* |
|---|---|---|---|---|---|---|
| 46 | 42 | 11 | 15 | 10 | 8.500.**330** | **8.500.430** |
| 56 | 52 | 12 | 24 | 10 | 8.500.**331** | **8.500.431** |
| 61 | 58 | 14 | 23 | 10 | 8.500.**332** | **8.500.432** |
| 67 | 62 | 20 | 38 | 10 | 8.500.**333** | **8.500.433** |
| 72 | 67 | 24 | 25 | 10 | 8.500.**334** | **8.500.434** |
| 80 | 75 | 16 | 30 | 10 | 8.500.**335** | **8.500.435** |
| 82 | 77 | 24 | 40 | 10 | 8.500.**336** | **8.500.436** |
| 85 | 80 | 10 | 15 | 10 | 8.500.**337** | **8.500.437** |
| 100 | 96 | 16 | 20 | 10 | 8.500.**338** | **8.500.438** |
| 107 | 102 | 16 | 30 | 10 | 8.500.**339** | **8.500.439** |
| 208 | 202 | 19 | 23 | 5 | 8.500.**340** | **8.500.440** |
| 110 | 106 | 21 | 40 | 5 | 8.500.**341** | **8.500.441** |
| 117 | 94 | 7 | 15 | 5 | 8.500.**342** | **8.500.442** |
| 150 | 144 | 33 | 50 | 5 | 8.500.**343** | **8.500.443** |
| 160 | 155 | 6 | 26 | 5 | 8.500.**344** | **8.500.444** |
| 290 | 280 | 30 | 43 | 1 | 8.500.**345** | **8.500.445** |



**Combustion boats,** with tail and hole

***Nacelles de combustion,*** *forme allongée avec anneau*

| Out. Length<br>*Long. ext.*<br>mm | In. length<br>*Long. int.*<br>mm | Depth<br>*Profondeur*<br>mm | Width<br>*Largeur*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Alumina<br>*Alumine* | Zirconia<br>*Zircone* |
|---|---|---|---|---|---|---|
| 19 | 5 | 4 | | 10 | **8.500.350** | |
| 45 | 11 | 7 | | 10 | **8.500.351** | |
| 52 | 7.5 | 6 | | 10 | **8.500.352** | |
| 52 | 42 | 12 | 15 | 10 | **8.500.353** | **8.500.453** |
| 62 | 52 | 12 | 24 | 10 | **8.500.354** | **8.500.454** |
| 75 | 11 | 7 | | 10 | **8.500.355** | |
| 87 | 17 | 9 | | 10 | **8.500.356** | |
| 90 | 67 | 24 | 25 | 10 | **8.500.357** | **8.500.457** |
| 91 | 75 | 8 | 10 | 10 | **8.500.358** | **8.500.458** |
| 92 | 72 | 16 | 30 | 10 | **8.500.359** | **8.500.459** |
| 96 | 81 | 15 | 15 | 10 | **8.500.360** | **8.500.460** |
| 102 | 71 | 17 | 20 | 10 | **8.500.361** | **8.500.461** |
| 115 | 16 | 9 | | 10 | **8.500.362** | |
| 120 | 30 | 15 | | 10 | **8.500.363** | |
| 125 | 110 | 15 | 15 | 10 | **8.500.364** | **8.500.464** |
| 130 | 112 | 7 | 19 | 10 | **8.500.365** | **8.500.465** |
| 160 | 40 | 21 | | 10 | **8.500.366** | |
| 200 | 15 | 15 | | 10 | **8.500.367** | |

## Crucibles made of Fire-Clay
*Creusets en Terre réfractaire*



**Crucibles,** made of fire-clay without cover

***Creusets,*** *en terre réfractaire sans couvercle*

| H<br><br>mm | D<br><br>mm | d<br><br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 80 | 60 | 30 | 1 | **8.500.500** |
| 100 | 70 | 35 | 1 | **8.500.501** |
| 120 | 80 | 40 | 1 | **8.500.502** |

## Melting crucibles made of Graphite
*Creusets de fusion en graphite*

Graphit crucibles are designed for metling ferrous and non-ferrous metals and alloys and precious metals between 400°C and 1400°C.

*Creusets de fusion en graphite pour pour la fusion d'alliages de métaux non-ferreux et de métaux précieux à des températures allant de 400°C à 1400°C.*

**Cylindrical crucibles,** without lid

***Creusets, forme cylindriques,*** *sans couvercle*

| H | D | d | Standard pack<br>*Conditionnement* | Order No.<br>*No° de code* |
|---|---|---|---|---|
| mm | mm | mm | pcs. | |
| 29 | 25 | 19 | 1 | **8.500.550** |
| 35 | 32 | 25 | 1 | **8.500.551** |
| 51 | 41 | 29 | 1 | **8.500.552** |
| 54 | 48 | 32 | 1 | **8.500.553** |
| 57 | 51 | 35 | 1 | **8.500.554** |
| 70 | 60 | 41 | 1 | **8.500.555** |
| 75 | 65 | 45 | 1 | **8.500.556** |
| 80 | 70 | 43 | 1 | **8.500.557** |
| 90 | 80 | 50 | 1 | **8.500.558** |
| 90 | 90 | 55 | 1 | **8.500.559** |
| 100 | 95 | 60 | 1 | **8.500.560** |
| 110 | 102 | 60 | 1 | **8.500.561** |
| 130 | 110 | 70 | 1 | **8.500.562** |
| 140 | 115 | 75 | 1 | **8.500.563** |
| 150 | 125 | 85 | 1 | **8.500.564** |
| 165 | 130 | 90 | 1 | **8.500.565** |
| 175 | 140 | 95 | 1 | **8.500.566** |




## Porcelain
*Porcelaine*

Laboratory porcelain is used for temperatures up to 1000°C (glazed) and up to 1350°C (unglazed). It has a high chemical resistance against all acids (at temp. 20°C) and alkaline solutions excepted molten alkaline salts.

*La porcelaine de laboratoire est utilisée pour des températures allant jusqu'à 1000°C (émaillée) ou jusqu'à 1350°C (non-émaillée). Elle est résistante aux attaques chimiques contre la plupart des acides (à temp. 20°C) et solutions alcalines à l'exception des sels alcalins fondus*

**Filter crucibles,** made of glazed porcelain with porous base

***Creusets filtrants à base poreuse,*** *en porcelaine émaillée*

**Porosity /** Porosité P1 ≈ 6 µm
P2 ≈ 7 µm
P3 ≈ 8 µm

| Top/Base | Height<br>*Hauteur* | Capacity<br>*Capacité* | Standard pack<br>*Conditionnement* | Porosity<br>*Porrosité* | Porosity<br>*Porrosité* | Porosity<br>*Porrosité* |
|---|---|---|---|---|---|---|
| Ø mm | mm | ml | pcs. | P1 | P2 | P3 |
| 35 / 24 | 41 | 25 | 20 | **8.500.770** | **8.500.780** | **8.500.790** |
| 39 / 25 | 42 | 25 | 15 | **8.500.771** | **8.500.781** | **8.500.791** |
| 42 / 26 | 45 | 35 | 10 | **8.500.772** | **8.500.782** | **8.500.792** |



**Filter disc,** made of porcelain

***Disque filtrant,*** *en porcelaine*

| Top/Base | Standard pack<br>*Conditionnement* | Order no.<br>*N° de code* |
|---|---|---|
| Ø mm | pcs. | |
| 35 / 24 | | **8.500.795** |

## Porcelain
*Porcelaine*



**Glazed porcelain combustion boats**

***Nacelles,*** *en porcelaine émaillée, forme allongée*

| Length<br>*Longueur*<br>mm | Width<br>*Largeur*<br>mm | Height<br>*Hauteur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 19 | 4 | 3.5 | 100 | **8.503.800** |
| 30 | 5 | 4 | 100 | **8.503.801** |
| 45 | 6 | 6 | 100 | **8.503.802** |
| 58 | 10 | 8 | 10 | **8.503.803** |
| 75 | 8 | 8 | 10 | **8.503.804** |
| 85 | 12 | 8 | 10 | **8.503.805** |
| 96 | 12 | 10 | 10 | **8.503.806** |
| 102 | 19 | 12 | 10 | **8.503.807** |
| 125 | 20 | 13 | 10 | **8.503.808** |
| 152 | 240 | 17 | 10 | **8.503.809** |



**Casseroles with porcelain handle,** glazed except rim

***Casseroles à manche,*** *en porcelaine émaillée*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 63 | 35 | 80 | 1 | **8.503.810** |
| 80 | 46 | 140 | 1 | **8.503.811** |
| 102 | 69 | 290 | 1 | **8.503.812** |
| 127 | 70 | 500 | 1 | **8.503.813** |
| 160 | 97 | 1300 | 1 | **8.503.814** |
| 215 | 110 | 2600 | 1 | **8.503.815** |




**Measuring jug,** graduated inside, glazed except outside base

***Béchers gradués à bec-verseur et anse,*** *en porcelaine émaillée*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 80 | 100 | 250 | 1 | **8.503.820** |
| 95 | 125 | 500 | 1 | **8.503.821** |
| 110 | 165 | 1000 | 1 | **8.503.822** |
| 140 | 293 | 2000 | 1 | **8.503.823** |



**Clay plate,** porous

***Assiette plate,*** *en terre cuite*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 180 | | | 1 | **8.503.830** |
| 220 | | | 1 | **8.503.831** |

## Porcelain dishes
*Capsules en porcelaine*



**Incinerating dishes,** cylindrical, glazed except outside base

***Capsules d'incinération cylindrique,*** *en porcelaine émaillée*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 40 | 21 | 15 | 1 | **8.503.840** |
| 50 | 25 | 30 | 1 | **8.503.841** |
| 60 | 31 | 60 | 1 | **8.503.842** |

**Incinerating dishes,** flat, glazed except outside base

***Capsules d'incinération,*** *cylindrique à fond plat, en porcelaine émaillée*

| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 37 | 10 | 8 | 1 | **8.503.850** |
| 42 | 11 | 10 | 1 | **8.503.851** |
| 48 | 12 | 15 | 1 | **8.503.852** |



## Porcelain Mortars
## *Mortiers en porcelaine*

**Mortars with spout,** without pestle

***Mortiers avec bec,*** *en porcelaine émaillée, sans pilon*

| inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code*<br>Type 1 | Order No.<br>*N° de code*<br>Type 2 |
|---|---|---|---|---|---|
| 60 | 32 | 25 | 10 | **8.512.103** | **8.512.003** |
| 100 | 50 | 110 | 1 | **8.512.106** | **8.512.006** |
| 144 | 71 | 325 | 1 | **8.512.108** | **8.512.008** |
| 150 | 70 | 700 | 1 | **8.512.109** | **8.512.009** |
| 183 | 90 | 730 | 1 | **8.512.110** | **8.512.010** |
| 257 | 127 | 2250 | 1 | **8.512.112** | **8.512.012** |



**Type 1** grinding surface, glazed / *Surface de broyage émaillée*
**Type 2** grinding surface, unglazed / *Surface de broyage non-émaillée*

**Pestles for mortars**

***Pilons pour mortiers,*** *en porcelaine émaillée*

| Length<br>*Longueur*<br>mm | Head Ø<br>mm | For mortars<br>*Pour mortiers* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code*<br>Type 1 | Order No.<br>*N° de code*<br>Type 2 |
|---|---|---|---|---|---|
| 103 | 26 | 8.500.950 / 960 | 5 | **8.514.003** | **8.513.003** |
| 132 | 37 | 8.500.951 / 961 | 5 | **8.514.006** | **8.513.006** |
| 158 | 44 | 8.500.952 / 962 | 5 | **8.514.008** | **8.513.008** |
| 210 | 58 | 8.500.953 / 963 | 1 | **8.514.009** | **8.513.009** |
| 255 | 73 | 8.500.954 / 964 | 1 | **8.514.010** | **8.513.010** |
| 305 | 86 | 8.500.955 / 965 | 1 | **8.514.012** | **8.513.012** |
| 370 | 103 | 8.500.956 / 966 | 1 | **8.514.014** | **8.513.014** |



**Type 1** grinding surface, glazed / *Surface de broyage émaillée*
**Type 2** grinding surface, unglazed / *Surface de broyage non-émaillée*

## Porcelain plates
## *Plaques en porcelaine*

**Plate,** rectangular with 6 cavities, glazed

***Plaques rectangulaires à 6 godets****, en porcelaine émaillée*

| Length<br>*Longueur*<br>mm | Width<br>*Largeur*<br>mm | Height<br>*Hauteur*<br>mm | Cavities Ø<br>*Godets Ø*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 112 | 81 | 12 | 25 | 1 | **8.516.001** |
| 115 | 85 | 12 | 20 | 1 | **8.516.008** |





## Porcelain crucibles
*Creusets en porcelaine*

**Crucibles, low form,** glazed, without lid

***Creusets, forme basse,** émaillés, sans couvercle*

| Top Ø<br>*Ø Sup.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>approx. ml | Standard pack<br>*Conditionnement*<br>pcs. | Crucible<br>*Creuset* | Lid<br>*Couvercle* |
|---|---|---|---|---|---|
| 30 | 19 | 6 | 10 | **8.518.002** | **8.518.102** |
| 35 | 22 | 11 | 10 | **8.518.003** | **8.518.103** |
| 40 | 25 | 15 | 10 | **8.518.004** | **8.518.104** |
| 45 | 28 | 25 | 10 | **8.518.005** | **8.518.105** |
| 50 | 32 | 29 | 10 | **8.518.006** | **8.518.106** |
| 60 | 38 | 85 | 10 | **8.518.007** | **8.518.107** |
| 70 | 47 | 91 | 10 | **8.518.008** | **8.518.108** |
| 83 | 55 | 180 | 2 | **8.518.009** | **8.518.109** |



**Crucibles, medium form,** glazed, without lid

***Creusets, forme moyenne,** émaillés, sans couvercle*

| Top Ø<br>*Ø Sup.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>approx. ml | Standard pack<br>*Conditionnement*<br>pcs. | Crucible<br>*Creuset* | Lid<br>*Couvercle* |
|---|---|---|---|---|---|
| 25 | 20 | 5 | 10 | **8.519.001** | **8.519.101** |
| 30 | 25 | 10 | 10 | **8.519.002** | **8.519.102** |
| 35 | 28 | 12 | 10 | **8.519.003** | **8.519.103** |
| 40 | 32 | 20 | 10 | **8.519.004** | **8.519.104** |
| 45 | 36 | 30 | 10 | **8.519.005** | **8.519.105** |
| 50 | 40 | 45 | 10 | **8.519.006** | **8.519.106** |
| 52 | 43 | 60 | 10 | **8.519.007** | **8.519.107** |
| 60 | 48 | 80 | 10 | **8.519.008** | **8.519.108** |
| 63 | 55 | 110 | 10 | **8.519.009** | **8.519.109** |
| 70 | 60 | 150 | 10 | **8.519.010** | **8.519.110** |
| 82 | 65 | 230 | 2 | **8.519.011** | **8.519.111** |
| 89 | 75 | 300 | 2 | **8.519.012** | **8.519.112** |



**Lids,** made of glazed porcelain

***Couvercles,** en porcelaine émaillée*

| for crucibles<br>*pour creusets*<br>Ø mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 25 | 10 | **8.519.101** |
| 30 | 10 | **8.519.102** |
| 35 | 10 | **8.519.103** |
| 40 | 10 | **8.519.104** |
| 45 | 10 | **8.519.105** |
| 50 | 10 | **8.519.106** |
| 52 | 10 | **8.519.107** |
| 60 | 10 | **8.519.108** |
| 63 | 10 | **8.519.109** |
| 70 | 10 | **8.519.110** |
| 82 | 10 | **8.519.111** |
| 89 | 10 | **8.519.112** |



**Crucibles, tall form,** glazed, without lid

***Creusets, forme haute,** émaillés, sans couvercle*

| Top Ø<br>*Ø Sup.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>approx. ml | Standard pack<br>*Conditionnement*<br>pcs. | Crucible<br>*Creuset* | Lid<br>*Couvercle* |
|---|---|---|---|---|---|
| 26 | 34 | 11 | 10 | **8.520.003** | **8.520.103** |
| 30 | 38 | 15 | 10 | **8.520.004** | **8.520.104** |
| 35 | 44 | 26 | 10 | **8.520.005** | **8.520.105** |
| 40 | 50 | 35 | 10 | **8.520.006** | **8.520.106** |
| 45 | 56 | 50 | 10 | **8.520.007** | **8.520.107** |
| 50 | 62 | 72 | 10 | **8.520.008** | **8.520.108** |
| 60 | 75 | 130 | 10 | **8.520.009** | **8.520.109** |

# Porcelain dishes
## *Capsules en porcelaine*

**Evaporating dishes with spout and flat bottom,** glazed except outside base

***Capsules d'évaporation à bec et fond plat,*** *en porcelaine émaillée*



| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 60 | 14 | 20 | 10 | **8.525.114** |
| 70 | 15 | 28 | 10 | **8.525.115** |
| 80 | 20 | 55 | 10 | **8.525.120** |
| 100 | 25 | 110 | 10 | **8.525.125** |
| 130 | 30 | 250 | 10 | **8.525.130** |
| 160 | 40 | 450 | 1 | **8.525.140** |

**Evaporating dishes with spout** round bottom

***Capsules d'évaporation à bec,*** *forme évasée, en porcelaine émaillée*



| Outer Ø<br>*Ø ext.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 61 | 28 | 35 | 10 | **8.526.004** |
| 81 | 38 | 107 | 10 | **8.526.006** |
| 83 | 27 | 67 | 10 | **8.526.007** |
| 94 | 42 | 140 | 10 | **8.526.008** |
| 127 | 42 | 240 | 10 | **8.526.011** |
| 154 | 50 | 420 | 1 | **8.526.013** |
| 170 | 55 | 558 | 1 | **8.526.014** |
| 180 | 84 | 1135 | 1 | **8.526.015** |

**Incinerating dishes,** conical, rectangular glazed except outside base

***Capsules d'incinération,*** *forme rectangulaire plate, en porcelaine émaillée*



| Length<br>*Longueur*<br>mm | Width<br>*Largeur*<br>mm | Height<br>*Hauteur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 48 | 26 | 10 | 1 | **8.526.370** |
| 55 | 42 | 16 | 1 | **8.526.371** |
| 70 | 46 | 13 | 1 | **8.526.372** |
| 96 | 55 | 16 | 1 | **8.526.373** |

## Porcelain funnels
## *Entonnoirs en porcelaine*



**Hirsch funnels according to Dr. Hirsch**
with perforated fixed filter plate

***Entonnoirs de Hirsch à plaque filtrante,*** *en porcelaine émaillée*

| Filter Ø<br>*Ø du filtre*<br>mm | Plate Ø<br>*Ø de la plaque*<br>mm | Height<br>*Hauteur*<br>mm | Stem<br>*Tige*<br>mm | Top Ø<br>*Ø Sup.*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 8 | 9 | 45 | 22 | 30 | 1 | **8.526.890** |
| | 11 | 56 | 25 | 40 | 1 | **8.526.891** |
| | 13 | 61 | 27 | 45 | 1 | **8.526.892** |
| 16 | 15 | 74 | 33 | 52 | 1 | **8.526.893** |
| 25 | 27 | 102 | 42 | 72 | 1 | **8.526.894** |



**Büchner funnels according to Dr. Büchner**

***Entonnoirs de Büchner,*** *en porcelaine émaillée*

| Filter Ø<br>*Entonnoir Ø*<br>mm | Plate Ø<br>*Ø de la plaque*<br>mm | Height<br>*Hauteur*<br>mm | Stem<br>*Tige*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|---|
| 18 | 19 | 47 | 20 | 3 | 1 | **8.527.001** |
| 27 | 29 | 60 | 30 | 10 | 1 | **8.527.002** |
| 40 | 42 | 76 | 37 | 25 | 1 | **8.527.003** |
| 45 | 48 | 100 | 41 | 50 | 1 | **8.527.004** |
| 55 | 50 | 129 | 53 | 75 | 1 | **8.527.005** |
| 70 | 74 | 150 | 75 | 135 | 1 | **8.527.006** |
| 90 | 95 | 165 | 75 | 290 | 1 | **8.500.906** |
| 110 | 114 | 201 | 90 | 580 | 1 | **8.527.007** |
| 125 | 133 | 232 | 106 | 795 | 1 | **8.527.008** |
| 150 | 155 | 235 | 110 | 1250 | 1 | **8.527.009** |
| 185 | 190 | 260 | 120 | 1900 | 1 | **8.527.010** |
| 240 | 250 | 330 | 138 | 4300 | 1 | **8.527.011** |
| 270 | 279 | 300 | 125 | 5800 | 1 | **8.527.012** |
| 320 | 330 | 350 | 150 | 10600 | 1 | **8.527.014** |

## Porcelain spatulas
## *Spatules en porcelaine*



**Spatulas,** double with spoon

***Spatules,*** *double à cuillère, en porcelaine émaillée*

| Length<br>*Longueur*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 121 | 1 | **8.530.000** |
| 170 | 1 | **8.530.001** |
| 210 | 1 | **8.530.002** |
| 305 | 1 | **8.530.003** |

## Porcelain milling jars
## *Jarres de broyage en porcelaine*

**Milling jars with cover,** metal lock and seal rings, glazed inside and outside

***Jarres de broyage à billes,*** *en porcelaine émaillée, avec fermeture en métal et joint d'étanchéité*

| Bottom Ø<br>*Ø Inf.*<br>mm | Height<br>*Hauteur*<br>mm | Capacity<br>*Capacité*<br>ml | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 135 | 182 | 1000 | 1 | **8.531.020** |
| 150 | 222 | 1500 | 1 | **8.531.030** |
| 200 | 240 | 3000 | 1 | **8.531.040** |
| 225 | 280 | 5000 | 1 | **8.531.050** |
| 288 | 333 | 10000 | 1 | **8.531.060** |
| 335 | 360 | 15000 | 1 | **8.531.070** |



**Porcelain balls,** pack of 5 kg

***Billes de broyage****, en porcelaine, en paquet de 5 kg*

| Diameter<br>*Diamètre*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|
| 9 | 1 | **8.531.090** |
| 15 | 1 | **8.531.091** |
| 20 | 1 | **8.531.092** |
| 30 | 1 | **8.531.093** |
| 40 | 1 | **8.531.094** |
| 50 | 1 | **8.531.095** |

**Spare parts for Milling jars**

***Pièce de rechange*** *pour jarres de broyage à billes*

| | For<br>*Pour*<br>*N° de code* | Order No.<br>*N° de code*<br>8.531.020 | Order No.<br>*N° de code*<br>8.531.030 | Order No.<br>*N° de code*<br>8.531.040 | Order No.<br>*N° de code*<br>8.531.050 | Order No.<br>*N° de code*<br>8.531.060 | Order No.<br>*N° de code*<br>8.531.070 |
|---|---|---|---|---|---|---|---|
| Milling jar without cover / *Jarre seule* | | **8.531.021** | **8.531.031** | **8.531.041** | **8.531.051** | **8.531.061** | **8.531.071** |
| Cover / *couvercle* | | **8.531.022** | **8.531.032** | **8.531.042** | **8.531.052** | **8.531.062** | **8.531.072** |
| Metal lock / *fermeture métallique* | | **8.531.023** | **8.531.033** | **8.531.043** | **8.531.053** | **8.531.063** | **8.531.073** |
| Seal ring / *joint de fermeture* | | **8.531.024** | **8.531.034** | **8.531.044** | **8.531.054** | **8.531.064** | **8.531.074** |

| | Jars<br>*Jarres* | Ball - *Billes* Ø<br>9 mm | 15 mm | 20 mm | 30 mm | 40 mm | 50 mm |
|---|---|---|---|---|---|---|---|
| **Recommendations for ball fillings**<br>*Recommandation pour le chargement en billes de broyage* | 1000 ml | 0,1 kg | 0,2 kg | 0,2 kg | | | |
| | 1500 ml | 0,15 kg | 0,3 kg | 0,3 kg | | | |
| | 3000 ml | 0,3 kg | 0,6 kg | 0,6 kg | | | |
| | 5000 ml | 0,5 kg | 1,0 kg | 1,0 kg | 1,5 kg | | |
| | 10000 ml | 0,5 kg | 1,5 kg | 1,5 kg | 1,5 kg | 2,0 kg | |
| | 15000 ml | 1,0 kg | 1,5 kg | 1,5 kg | | | |
| **Number of balls per kg approx.**<br>*Nombre de billes par kg env.* | | 425 pcs. | 130pcs. | 90 pcs. | 16 pcs. | 9 pcs. | 4 pcs. |
| **Bulk density of balls per litre approx.**<br>*Densité des billes par litre env.* | | 1885 g | 1930 g | 2000 g | 1800 g | 1700 g | 1750 g |

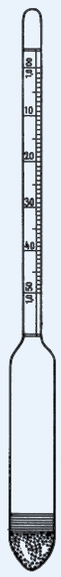
**Desiccator plates, made of porcelain,** without feet, wit 20 mm Ø center hole and many small holes 5 mm Ø

***Disques en porcelaine***

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 90 | **8.535.001** |
| 140 | **8.535.003** |
| 190 | **8.535.005** |
| 235 | **8.535.006** |
| 280 | **8.535.007** |



**8.535.*****



**8.556.*****

**Density hydrometers. DIN 12791**
For officially testing. Series M50. Without thermometer. Surface-tension-categories: 0.600-1.000 (15-35 dyn/cm = mN/m) low = L = yellow COLOR-Code, 1.000-2.000 (75 dyn/cm = mN/m) high = H = blue Color-Code. TP 20 °C. With lead ballast

***Densimètres à 20° selon DIN 12791.*** *Série M50, sans thermomètre*

| DIN-No. | Range<br>*Echelle*<br>g/cm³ | Order No.<br>*N° de code* |
|---|---|---|
| M50-060 | 0.600-0.650 | **8.556.001** |
| M50-065 | 0.650-0.700 | **8.556.002** |
| M50-070 | 0.700-0.750 | **8.556.003** |
| M50-075 | 0.750-0.800 | **8.556.004** |
| M50-080 | 0.800-0.850 | **8.556.005** |
| M50-085 | 0.850-0.900 | **8.556.006** |
| M50-090 | 0.900-0.950 | **8.556.007** |
| M50-095 | 0.950-1.000 | **8.556.008** |
| M50-100 | 1.000-1.050 | **8.556.009** |
| M50-105 | 1.050-1.100 | **8.556.010** |
| M50-110 | 1.100-1.150 | **8.556.011** |
| M50-115 | 1.150-1.200 | **8.556.012** |
| M50-120 | 1.200-1.250 | **8.556.013** |
| M50-125 | 1.250-1.300 | **8.556.014** |
| M50-130 | 1.300-1.350 | **8.556.015** |
| M50-135 | 1.350-1.400 | **8.556.016** |
| M50-140 | 1.400-1.450 | **8.556.017** |
| M50-145 | 1.450-1.500 | **8.556.018** |
| M50-150 | 1.500-1.550 | **8.556.019** |
| M50-155 | 1.550-1.600 | **8.556.020** |
| M50-160 | 1.600-1.650 | **8.556.021** |
| M50-165 | 1.650-1.700 | **8.556.022** |
| M50-170 | 1.700-1.750 | **8.556.023** |
| M50-175 | 1.750-1.800 | **8.556.024** |
| M50-180 | 1.800-1.850 | **8.556.025** |
| M50-185 | 1.850-1.900 | **8.556.026** |
| M50-190 | 1.900-1.950 | **8.556.027** |
| M50-195 | 1.950-2.000 | **8.556.028** |
| Set of 14 hydrometers from 0.600-1.300 g/cm³<br>*Série de 14 densimètres couvrant la plage de 0.600 à 1.300 gc/m³* | | **8.556.100** |
| Set of 14 hydrometers from 1.300-2.000 g/cm³<br>*Série de 14 densimètres couvrant la plage de 1.300 à 2.000 gcm³* | | **8.556.200** |



**Portable Electronic Density Meter from KEM our partner in the laboratory world.**

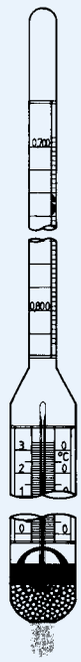
**Density hydrometers. DIN 12791**
For officially testing.
Surface-tension-categories: 0.600-1.000 (15-35 dyn/cm = mN/m)
low = L = yellow Color-Code,
1.000-2.000 (75 dyn/cm = mN/m)
high = H = blue Color-Code. TP 20 °C.
With lead ballast. Division 0.002 g/cm³, division 90 mm, length 240 mm.
**Available without thermometer or with thermometer**

***Densimètres à 20° selon DIN 12791,*** *Série M100, disponible avec ou sans thermomètre. Division 0.002 g/cm³, longueur 240 mm*

| DIN-No. | Range<br>*Echelle*<br>g/cm³ | without thermometer<br>*sans thermomètre* | with thermometer<br>*avec thermomètre* |
|---|---|---|---|
| M100-060 | 0.600-0.700 | **8.557.001** | **8.558.001** |
| M100-070 | 0.700-0.800 | **8.557.002** | **8.558.002** |
| M100-080 | 0.800-0.900 | **8.557.003** | **8.558.003** |
| M100-090 | 0.900-1.000 | **8.557.004** | **8.558.004** |
| M100-100 | 1.000-1.100 | **8.557.005** | **8.558.005** |
| M100-110 | 1.100-1.200 | **8.557.006** | **8.558.006** |
| M100-120 | 1.200-1.300 | **8.557.007** | **8.558.007** |
| M100-130 | 1.300-1.400 | **8.557.008** | **8.558.008** |
| M100-140 | 1.400-1.500 | **8.557.009** | **8.558.009** |
| M100-150 | 1.500-1.600 | **8.557.010** | **8.558.010** |
| M100-160 | 1.600-1.700 | **8.557.011** | **8.558.011** |
| M100-170 | 1.700-1.800 | **8.557.012** | **8.558.012** |
| M100-180 | 1.800-1.900 | **8.557.013** | **8.558.013** |
| M100-190 | 1.900-2.000 | **8.557.014** | **8.558.014** |
| Complete set of 14 hydrometers packed in valvet-lined case<br>*Série de 14 densimètres couvrant la plage de 0.600 à 2.000 g/m³, livrés dans un écrin* | | **8.857.200** | **8.558.200** |



**8.557.*****



**8.558.*****

**Alcoholmeters, acc. to Richter and Tralles.**
% by weight and by volume. TP. 20 °C, packed in a plastic tube, shot-weighted, without thermometer. Length 260 mm. Divisions 0.1 %

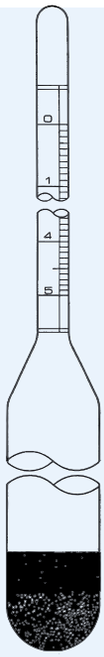
***Alcoomètres à 20° selon Richter & Tralles****, sans thermomètre, longueur 260 mm, division 0.1%. Livrés dans un étui en plastique*

| Range<br>*Echelle*<br>% vol | Order No.<br>*N° de code* |
|---|---|
| 0-5 | **8.558.101** |
| 5-10 | **8.558.102** |
| 10-15 | **8.558.103** |
| 15-20 | **8.558.104** |
| 20-25 | **8.558.105** |
| 25-30 | **8.558.106** |
| 30-35 | **8.558.107** |
| 35-40 | **8.558.108** |
| 40-45 | **8.558.109** |
| 45-50 | **8.558.110** |
| 50-55 | **8.558.111** |
| 55-60 | **8.558.112** |
| 60-65 | **8.558.113** |
| 65-70 | **8.558.114** |
| 70-75 | **8.558.115** |
| 75-80 | **8.558.116** |
| 80-85 | **8.558.117** |
| 85-90 | **8.558.118** |
| 90-95 | **8.558.119** |
| 95-100 | **8.558.120** |
| 98-103 | **8.558.121** |



**8.558.1****

# DENSITY HYDROMETERS
## *DENSIMÈTRES*



**8.558.2****



**8.559.*****



**8.560.*****

**Hydrometers acc. to Beaumé.** Without thermometer, shot-weighted, 15 °C

***Densimètre de Baumé à 15°**, sans thermomètre*

| Range<br>*Echelle*<br>Bé | Division<br>*Division*<br>Bé | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 0-1 | 0.1 | 260 | **8.558.201** |
| 0-2 | 0.1 | 260 | **8.558.202** |
| 0-3 | 0.1 | 260 | **8.558.203** |
| 0-5 | 0.1 | 260 | **8.558.205** |
| 0-10 | 1.0 | 230 | **8.558.210** |
| 0-15 | 1.0 | 230 | **8.558.215** |
| 0-20 | 1.0 | 230 | **8.558.220** |
| 0-30 | 1.0 | 250 | **8.558.230** |
| 0-40 | 1.0 | 250 | **8.558.240** |
| 0-50 | 1.0 | 280 | **8.558.250** |
| 0-70 | 1.0 | 280 | **8.558.270** |

**Density hydrometers.** 100 °C range. For light and heavy liquids, TP. 20 °C, commercial quality, with lead ballast. (Densimeter). DIN 12791.
Division 0.001 g/cm³.
1. Without thermometer. Length 250 mm
2. With thermometer. Length 300 mm

***Densimètre à 20°C selon DIN 12791** pour liquides légers et lourds. Température 100°C. Division: 0.001/cm³. Livrable sans thermomètre (L=250 mm) ou avec thermomètre L=300mm)*

| Range<br>*Echelle*<br>g/cm³ | Without thermometer<br>*sans thermomètre* | With thermometer<br>*avec thermomètre* |
|---|---|---|
| 0.600-0.700 | **8.559.001** | **8.560.001** |
| 0.700-0.800 | **8.559.002** | **8.560.002** |
| 0.800-0.900 | **8.559.003** | **8.560.003** |
| 0.900-1.000 | **8.559.004** | **8.560.004** |
| 1.000-1.100 | **8.559.005** | **8.560.005** |
| 1.100-1.200 | **8.559.006** | **8.560.006** |
| 1.200-1.300 | **8.559.007** | **8.560.007** |
| 1.300-1.400 | **8.559.008** | **8.560.008** |
| 1.400-1.500 | **8.559.009** | **8.560.009** |
| 1.500-1.600 | **8.559.010** | **8.560.010** |
| 1.600-1.700 | **8.559.011** | **8.560.011** |
| 1.700-1.800 | **8.559.012** | **8.560.012** |
| 1.800-1.900 | **8.559.013** | **8.560.013** |
| 1.900-2.000 | **8.559.014** | **8.560.014** |
| Complete set of 14 hydrometers without thermometer<br>*Série de 14 densimètres sans thermomètre couvrant l'échelle 0.600 à 2.000 g/cm³* | **8.559.200** | - |
| Complete set of 14 hydrometers with thermometer<br>*Série de 14 densimètres avec thermomètre couvrant l'échelle 0.600 à 2.000 g/cm³* | - | **8.560.200** |
| Range finders, to complete the set 0.600 - 2.000 g/cm³, length 160 mm<br>*Range finders, pour compléter la série 0.600-2.000 g/cm³ longueur 160 mm* | **8.559.300** | - |

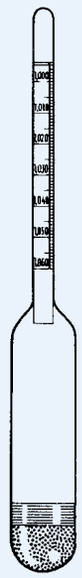



**Automatic Electronic Densitiy Meter from KEM, our partner in the laboratory world**

**Density hydrometers.** 60 °C range. For small quantities of liquids, for light and heavy liquids specific gravity. TP. 20 °C, commercial quality, with lead ballast. Desimeter. Division 0.001 g/cm³, division 50 mm, length 160 mm

***Densimètre à 20°C selon DIN 12791*** *pour petite quantité de liquides légers et lourds. Température 60°C. Division: 0.001/cm³. Sans thermomètre. Longueur 160 mm*

| Range<br>*Echelle*<br>g/cm³ | Order No.<br>*N° de code* |
|---|---|
| 0.600-0.660 | **8.561.001** |
| 0.660-0.710 | **8.561.002** |
| 0.710-0.760 | **8.561.003** |
| 0.760-0.820 | **8.561.004** |
| 0.820-0.880 | **8.561.005** |
| 0.880-0.940 | **8.561.006** |
| 0.940-1.000 | **8.561.007** |
| 1.000-1.060 | **8.561.008** |
| 1.060-1.120 | **8.561.009** |
| 1.120-1.180 | **8.561.010** |
| 1.180-1.240 | **8.561.011** |
| 1.240-1.300 | **8.561.012** |
| 1.300-1.360 | **8.561.013** |
| 1.360-1.420 | **8.561.014** |
| 1.420-1.480 | **8.561.015** |
| 1.480-1.540 | **8.561.016** |
| 1.540-1.600 | **8.561.017** |
| 1.600-1.660 | **8.561.018** |
| 1.660-1.720 | **8.561.019** |
| 1.720-1.780 | **8.561.020** |
| 1.780-1.840 | **8.561.021** |
| 1.840-1.900 | **8.561.022** |
| 1.900-1.960 | **8.561.023** |
| 1.960-2.020 | **8.561.024** |
| Thermo-range finder<br>*Thermo-range finder* | **8.561.100** |
| Complete set of 24 Hydrometer, with Thermo-Range-finder, packed in valvet-lined case.<br>*Série de 24 densimètres avec thermo-range finders, couvrant l'échelle 0.600 à 2.020 g/cm³, livrés dans un écrin* | **8.561.200** |



**8.561.*****

**Density hydrometers.** Various ranges, for light and heavy liquids specific gravity. TP. 20 °C, commercial quality, with lead ballast.

***Densimètres à 20°C,*** *pour liquides légers et lourds*

| Range<br>*Echelle*<br>g/cm³ | Division<br>*Division*<br>g/cm³ | Nominal range<br>*Longueur d'échell*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 0.700-1.000 | 0.005 | 110 | 270 | **8.564.001** |
| 1.000-1.300 | 0.005 | 160 | 300 | **8.564.002** |
| 1.000-1.500 | 0.005 | 140 | 300 | **8.564.003** |
| 1.500-2.000 | 0.005 | 140 | 300 | **8.564.004** |
| 1.000-2.000 | 0.010 | 160 | 300 | **8.564.005** |
| 0.700-2.000 | 0.01/0.02 | 150 | 400 | **8.564.006** |

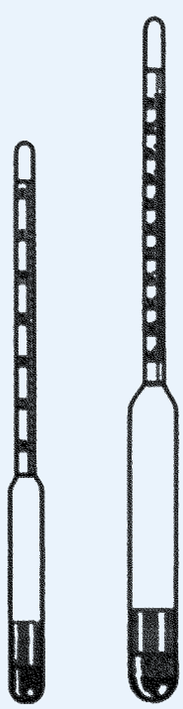


**8.564.*****

**Sugar hydrometers.** Saccharimeter acc. to Brix (1 Brix = 1% sugar solution).
1. Without thermometer 200-250 mm long
2. With thermometer 300 mm long

***Saccharimètres de Brix,*** *pour les sucres (1 Brix = 1% de solution sucrée)*
*Type 1 sans thermomètre (L=200-250mm)*
*Type 2 avec thermomètre (L=300 mm)*

| Range<br>*Echelle*<br>Brix | Order No.<br>*N° de code*<br>Type 1 | Order No.<br>*N° de code*<br>Type 2 |
|---|---|---|
| 0-10 | **8.565.101** | **8.565.111** |
| 0-30 | **8.565.102** | - |
| 10-20 | - | **8.565.113** |
| 20-30 | - | **8.565.114** |
| 30-40 | - | **8.565.115** |
| 30-60 | **8.565.106** | - |
| 40-50 | - | **8.565.117** |
| 50-60 | - | **8.565.118** |
| 60-70 | - | **8.565.119** |
| 60-90 | **8.565.110** | - |
| 70-80 | - | **8.565.121** |
| 80-90 | - | **8.565.122** |



**8.565.*****

# DENSITY HYDROMETERS
## *DENSIMÈTRES*

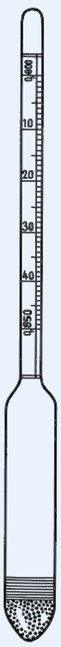


8.568.***

**Density-thermo-hydrometers for petroleum.** For officially testing, with thermometer -10 to +40 °C : 1 °C, TP. 15 °C. Conformity certified. Divisions 0.001 g/cm³. Nominal range 155 mm. Length 425 mm.

***Thermo-densimètres à 15°C*** *pour produits pétroliers, avec thermomètre -10/+40°C : 1°C. Certifié conforme. Divisions: 0.001g/cm³. Longueur totale 425 mm*

| Range<br>*Echelle*<br>g/cm³ | Order No.<br>*N° de code* |
|---|---|
| 0.610-0.700 | **8.568.001** |
| 0.680-0.770 | **8.568.002** |
| 0.750-0.840 | **8.568.003** |
| 0.820-0.910 | **8.568.004** |



8.570.***

**Specific gravity hydrometers, acc. to ASTM E 100.** For officially testing, for petroleum and other liquids with similar surface-tension, TP. 60/60 °F, with lead ballast.

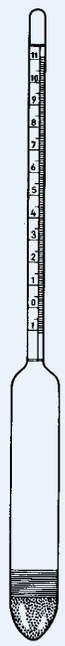
***Densimètres selon ASTM E 100*** *à 60/60°F pour produits pétroliers et autres liquides de tension de surface identique*

| ASTM<br>No. | Scale<br>*Echelle*<br>sp. gr. | Division<br>*Division*<br>sp. gr. | Nominal scale<br>*Longueur d'échell*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 82H | 0.650-0.700 | 0.0005 | 135 | 300 | **8.570.001** |
| 83H | 0.700-0.750 | 0.0005 | 135 | 300 | **8.570.002** |
| 84H | 0.750-0.800 | 0.0005 | 135 | 300 | **8.570.003** |
| 85H | 0.800-0.850 | 0.0005 | 135 | 300 | **8.570.004** |
| 86H | 0.850-0.900 | 0.0005 | 135 | 300 | **8.570.005** |
| 87H | 0.900-0.950 | 0.0005 | 135 | 300 | **8.570.006** |
| 88H | 0.950-1.000 | 0.0005 | 135 | 300 | **8.570.007** |
| 89H | 1.000-1.050 | 0.0005 | 135 | 300 | **8.570.008** |
| 90H | 1.050-1.100 | 0.0005 | 135 | 300 | **8.570.009** |
| 102H | 0.650-0.700 | 0.0010 | 80 | 260 | **8.570.010** |
| 103H | 0.700-0.750 | 0.0010 | 80 | 260 | **8.570.011** |
| 104H | 0.750-0.800 | 0.0010 | 80 | 260 | **8.570.012** |
| 105H | 0.800-0.850 | 0.0010 | 80 | 260 | **8.570.013** |
| 106H | 0.850-0.900 | 0.0010 | 80 | 260 | **8.570.014** |
| 107H | 0.900-0.950 | 0.0010 | 80 | 260 | **8.570.015** |
| 108H | 0.950-1.000 | 0.0010 | 80 | 260 | **8.570.016** |
| 111H | 1.000-1.050 | 0.0005 | 135 | 300 | **8.570.017** |
| 112H | 1.050-1.100 | 0.0005 | 135 | 300 | **8.570.018** |
| 113H | 1.100-1.150 | 0.0005 | 135 | 300 | **8.570.019** |
| 114H | 1.150-1.200 | 0.0005 | 135 | 300 | **8.570.020** |
| 115H | 1.200-1.250 | 0.0005 | 135 | 300 | **8.570.021** |
| 116H | 1.250-1.300 | 0.0005 | 135 | 300 | **8.570.022** |
| 117H | 1.300-1.350 | 0.0005 | 135 | 300 | **8.570.023** |
| 118H | 1.350-1.400 | 0.0005 | 135 | 300 | **8.570.024** |
| 119H | 1.400-1.450 | 0.0005 | 135 | 300 | **8.570.025** |
| 120H | 1.450-1.500 | 0.0005 | 135 | 300 | **8.570.026** |
| 125H | 1.000-1.050 | 0.0010 | 80 | 260 | **8.570.027** |
| 126H | 1.050-1.100 | 0.0010 | 80 | 260 | **8.570.028** |
| 127H | 1.100-1.150 | 0.0010 | 80 | 260 | **8.570.029** |
| 128H | 1.150-1.200 | 0.0010 | 80 | 260 | **8.570.030** |
| 129H | 1.200-1.250 | 0.0010 | 80 | 260 | **8.570.031** |
| 130H | 1.250-1.300 | 0.0010 | 80 | 260 | **8.570.032** |
| 131H | 1.300-1.350 | 0.0010 | 80 | 260 | **8.570.033** |
| 132H | 1.350-1.400 | 0.0010 | 80 | 260 | **8.570.034** |
| 133H | 1.400-1.450 | 0.0010 | 80 | 260 | **8.570.035** |
| 134H | 1.450-1.500 | 0.0010 | 80 | 260 | **8.570.036** |
| 135H | 1.500-1.550 | 0.0010 | 80 | 260 | **8.570.037** |
| 136H | 1.550-1.600 | 0.0010 | 80 | 260 | **8.570.038** |
| 137H | 1.600-1.650 | 0.0010 | 80 | 260 | **8.570.039** |
| 138H | 1.650-1.700 | 0.0010 | 80 | 260 | **8.570.040** |
| 139H | 1.700-1.750 | 0.0010 | 80 | 260 | **8.570.041** |
| 140H | 1.750-1.800 | 0.0010 | 80 | 260 | **8.570.042** |
| 141H | 1.800-1.850 | 0.0010 | 80 | 260 | **8.570.043** |

**Specific gravity hydrometers, acc. to ASTM E 100.** For officially testing. TP. 60 °F (60 / 60 °F), with lead ballast.

*Densimètres selon ASTM E 100 à 60°F (60/60°F)*

| ASTM No. | Scale *Echelle* sp. gr. | Division *Division* sp. gr. | Nominal scale *Longueur d'échell* mm | Length *Longueur* mm | Order No. *N° de code* |
|---|---|---|---|---|---|
| 1H | -1 to +11 | 0.1 | 135 | 330 | **8.571.001** |
| 2H | 9 to 21 | 0.1 | 135 | 330 | **8.571.002** |
| 3H | 19 to 31 | 0.1 | 135 | 330 | **8.571.003** |
| 4H | 29 to 41 | 0.1 | 135 | 330 | **8.571.004** |
| 5H | 39 to 51 | 0.1 | 135 | 330 | **8.571.005** |
| 6H | 49 to 61 | 0.1 | 135 | 330 | **8.571.006** |
| 7H | 59 to 71 | 0.1 | 135 | 330 | **8.571.007** |
| 8H | 69 to 81 | 0.1 | 135 | 330 | **8.571.008** |
| 9H | 79 to 91 | 0.1 | 135 | 330 | **8.571.009** |
| 10H | 89 to 101 | 0.1 | 135 | 330 | **8.571.010** |

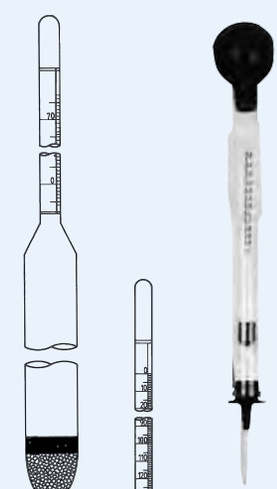


8.571.***

**Special hydrometers**

*Densimètres spéciaux*

| Range *Echelle* | Division *Division* mm | Nominal scale *Longueur d'échell* mm | Length *Longueur* mm | Order No. *N° de code* |
|---|---|---|---|---|
| **For boiler feed-water acc. to Dr. Ing. Ammer, TP. 20 °C, with lead ballast** *Densimètre pour eau de chaudière selon Dr. Ing. Ammer, à 20°C* | | | | |
| 1-0-1 | 0.1 | 45 | 280 | **8.572.001** |
| 1-0-2 | 0.1 | 65 | 280 | **8.572.002** |
| 0.5-0-0.5 | 0.1 | 80 | 400 | **8.572.003** |
| **Oechsle, TP. 20 °C, with lead ballast, without thermometer** *Densimètre de Oechsle à 20°C, sans thermomètre* | | | | |
| 0-120 % Vol. | 1/1 | 120 | 270 | **8.575.000** |
| **For $Ca(OH)_2$, without thermometer, 20 °C** *Densimètre pour $Ca(OH)_2$ (klein nach unten) à 20°C, sans thermomètre* | | | | |
| 0-340 g/l | – | – | 500 | **8.577.101** |
| **For salt acc. to Bischoff, without thermometer** *Densimètre pour salinité selon Bischoff, sans thermomètre* | | | | |
| 0-27 | – | – | 240 | **8.577.201** |
| **% hydrometer, without thermometer** *Densimètres à lecture en %, sans thermomètre* | | | | |
| KOH | – | – | 270 | **8.577.301** |
| 0-35 % $NH_3$ | – | – | 250 | **8.577.302** |
| 0-27 % NaOH | – | – | 250 | **8.577.303** |
| 0-10 % NaOH | – | – | 250 | **8.577.304** |
| 0-47 % $HNO_3$ | – | – | 250 | **8.577.305** |
| 0-39 % HCL | – | – | 250 | **8.577.306** |
| 0-45 % $H_2SO_4$ | – | – | 250 | **8.577.307** |
| 0-30 % $H_2O_2$ | – | – | 250 | **8.577.308** |
| **For testing accumulators 1.10-1.30, with glass tubing and rubber ball** *Densimètre pour batterie 1.10-1.30 avec tube en verre et poire en caoutchouc* | | | | |
| 1.10-1.30 | – | – | – | **8.578.100** |
| Spare hydrometer *Densimètre seul, de rechange* | – | – | – | **8.578.200** |
| **For soil acc, to Casagrande. DIN 18123. Without thermometer, 20 °C** *Densimètre pour sol de Casagrande à 20°C, selon DIN 18123, sans thermomètre* | | | | |
| 0.995-1.030 | 0.0005 | – | 350 | **8.580.100** |



8.572.001



8.578.100



8.575.000



8.580.100

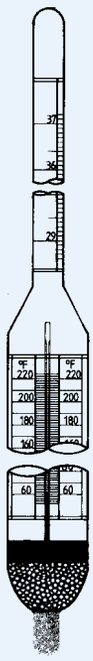
**Hydrometers for determining the s.g. of urine samples acc. to Vogel**
1.000-1.060 g/cm³ , 20 °C
Available with or without thermometer

*Densimètres pour la détermination des échantillons d'urine selon Vogel à 20°C. Echelle 1.000 à 1.060 g/cm³, livrables avec ou sans thermomètre*

| Scale division *Division d'échell* g/cm³ | without thermometer *sans thermomètre* | with thermometer *avec thermomètre* |
|---|---|---|
| 0.001 | **8.580.900** | **8.580.910** |
| 0.002 | **8.580.902** | - |



8.580.9**



8.583.1**

**Hydrometers.**
Range 12° A. P. I. in 0.1° 60 °F, with thermometer, total length 380 mm

***Densimètres** à échelle 12° A.P.I. avec thermomètre 60°F div. 0.1°F, longueur 380 mm*

| A.P.I-No. | Scale<br>*Echelle* | Thermometer<br>*Thermomètre* | Order No.<br>*N° de code* |
|---|---|---|---|
| 51HL-62 | -1 +11 | 0 +150 | **8.583.101** |
| 52HL-62 | +9 +21 | 0 +150 | **8.583.102** |
| 53HL-62 | +19 +31 | 0 +150 | **8.583.103** |
| 54HL-62 | +29 +41 | 0 +150 | **8.583.104** |
| 55HL-62 | +39 +51 | 0 +150 | **8.583.105** |
| 56HL-62 | +49 +61 | 0 +150 | **8.583.106** |
| 57HL-62 | +59 +71 | 0 +150 | **8.583.107** |
| 58HL-62 | +69 +81 | 0 +150 | **8.583.108** |
| 59HL-62 | +79 +91 | 0 +150 | **8.583.109** |
| 60HL-62 | +89 +101 | 0 +150 | **8.583.110** |
| 51HM-62 | -1 +11 | +30 +180 | **8.583.111** |
| 52HM-62 | +9 +21 | +30 +180 | **8.583.112** |
| 53HM-62 | +19 +31 | +30 +180 | **8.583.113** |
| 54HM-62 | +29 +41 | +30 +180 | **8.583.114** |
| 55HM-62 | +39 +51 | +30 +180 | **8.583.115** |
| 56HM-62 | +49 +61 | +30 +180 | **8.583.116** |
| 57HM-62 | +59 +71 | +30 +180 | **8.583.117** |
| 58HM-62 | +69 +81 | +30 +180 | **8.583.118** |
| 59HM-62 | +79 +91 | +30 +180 | **8.583.119** |
| 60HM-62 | +89 +101 | +30 +180 | **8.583.120** |
| 51HH-62 | -1 +11 | +60 +220 | **8.583.121** |
| 52HH-62 | +9 +21 | +60 +220 | **8.583.122** |
| 53HH-62 | +19 +31 | +60 +220 | **8.583.123** |
| 54HH-62 | +29 +41 | +60 +220 | **8.583.124** |
| 55HH-62 | +39 +51 | +60 +220 | **8.583.125** |
| 56HH-62 | +49 +61 | +60 +220 | **8.583.126** |
| 57HH-62 | +59 +71 | +60 +220 | **8.583.127** |
| 58HH-62 | +69 +81 | +60 +220 | **8.583.128** |
| 59HH-62 | +79 +91 | +60 +220 | **8.583.129** |
| 60HH-62 | +89 +101 | +60 +220 | **8.583.130** |




**Portable Brix Meter from KEM, our partner in the laboratory world**

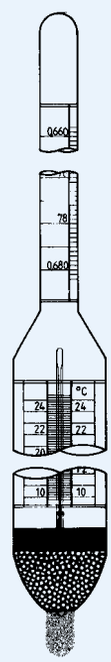
**Precision density hydrometers.**
Range 0.20 g/ml in 0.0002 g/ml. Total length 430 mm. Please specifiy surface tension. Colour code to DIN 12790 and ISO R649 = yellow / red / blue for low / medium / high surface tension. Available as DIN 12791, Tp. 20 °C, Series L20, without thermometer or as DIN 12785, Series L20 Th, with thermometer +10 +25 °C

***Densimètres de précision selon DIN 12790** à 20°C, Série L20, échelle 0.20 g/cm³ : 0.0002 g/ml. Longueur totale 430 mm. Livrables avec thermomètre (+10/+25°C) ou sans thermomètre*

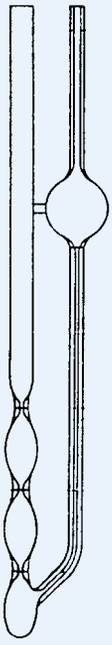
| **Range**<br>***Echelle***<br>**g/cm³** | **without thermometer**<br>***sans thermomètre*** | **with thermometer**<br>***avec thermomètre*** |
|---|---|---|
| 0.600-0.620 | **8.585.001** | **8.586.001** |
| 0.620-0.640 | **8.585.002** | **8.586.002** |
| 0.640-0.660 | **8.585.003** | **8.586.003** |
| 0.660-0.680 | **8.585.004** | **8.586.004** |
| 0.680-0.700 | **8.585.005** | **8.586.005** |
| 0.700-0.720 | **8.585.006** | **8.586.008** |
| 0.720-0.740 | **8.585.007** | **8.586.007** |
| 0.740-0.760 | **8,585.008** | **8.586.008** |
| 0.760-0.780 | **8.585.009** | **8.586.009** |
| 0.780-0.800 | **8.585.010** | **8.586.010** |
| 0.800-0.820 | **8.585.011** | **8.586.011** |
| 0.820-0.840 | **8.585.012** | **8.586.012** |
| 0.840-0.860 | **8.585.013** | **8.586.013** |
| 0.860-0.880 | **8.585.014** | 8 **586.014** |
| 0.880-0.900 | **8.585.015** | **8.586.015** |
| 0.900-0.920 | **8.585.016** | **8.586.016** |
| 0.920-0.940 | **8.585.017** | **8.586.017** |
| 0.940-0.960 | **8.585.018** | **8.586.018** |
| 0.960-0.980 | **8.585.019** | **8.586.019** |
| 0.980-1.000 | **8.585.020** | **8.586.020** |
| 1.000-1.020 | **8.585.021** | **8.586.021** |
| 1.020-1.040 | **8.585.022** | **8.586.022** |
| 1.040-1.060 | **8.585.023** | **8.586.023** |
| 1.060-1.080 | **8.585.024** | **8.586.024** |
| 1.080-1.100 | **8.585.025** | **8.586.025** |
| 1.100-1.120 | **8.585.026** | **8.586.026** |
| 1.120-1.140 | **8.585.027** | **8.586.027** |
| 1.140-1.160 | **8.585.028** | **8.586.028** |
| 1.160-1.180 | **8.585.029** | **8.586.029** |
| 1.180-1.200 | **8.585.030** | **8.586.030** |
| 1.200-1.220 | **8.585.031** | **8.586.031** |
| 1.220-1.240 | **8.585.032** | **8.586.032** |
| 1.240-1.260 | **8.585.033** | **8.586.033** |
| 1.260-1.280 | **8.585.034** | **8.586.034** |
| 1.280-1.300 | **8.585.035** | **8.586.035** |



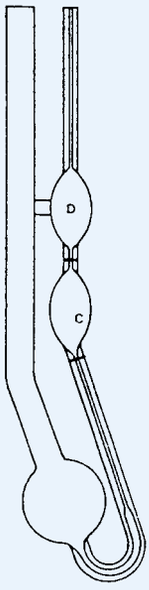

**8.585.*****



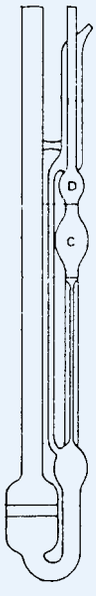

**8.586.*****



Type 1




Type 2




Type 3

**Viscometers.** Adjusted at 40 °C.
ASTM D445 and 446, ISO 3104 and 3105.
Calibrated. 3 types are available
1. Acc. to Cannon Fenske, not for opaque liquids.
2. Acc. to Cannon Fenske, BS 188, IP 71, for opaque liquids.
3. Acc. to Cannon Ubbelohde A and Dil. B.

***Tubes viscosimètriques*** *selon ASTM D 445 et D446, ISO 3104 et ISO 3105, ajustés à 40°C. Calibrés. 3 modèles disponibles:*
*1. Cannon-Fenske pour liquides non-opaques*
*2. Cannon-Fenske selon BS 188, IP71 pour liquides opaques*
*3. Cannon-Ubbelohde A et B*

| Capillary<br>*Capillaire*<br>No. | Range cSt<br>*Echelle*<br>mm²/s (nominal) | Constant<br>*Constante*<br>K (nominal) | Order No.<br>*N° de code*<br>Type 1 | Order No.<br>*N° de code*<br>Type 2 | Order No.<br>*N° de code*<br>Type 3 |
|---|---|---|---|---|---|
| 25 | 0.4-2 | 0.002 | **8.587.001 c** | **8.589.101 c** | **8.588.001 c** |
| 50 | 0.8-4 | 0.004 | **8.587.002 c** | **8.589.102 c** | **8.588.002 c** |
| 75 | 1.6-8 | 0.008 | **8.587.003 c** | **8.589.103 c** | **8.588.003 c** |
| 100 | 3-15 | 0.015 | **8.587.004 c** | **8.589.104 c** | **8.588.004 c** |
| 150 | 7-35 | 0.035 | **8.587.005 c** | **8.589.105 c** | **8.588.005 c** |
| 200 | 20-100 | 0.100 | **8.587.006 c** | **8.589.106 c** | **8.588.006 c** |
| 300 | 50-200 | 0.250 | **8.587.007 c** | **8.589.107 c** | **8.588.007 c** |
| 350 | 100-500 | 0.500 | **8.587.008 c** | **8.589.108 c** | **8.588.008 c** |
| 400 | 240-1200 | 1.200 | **8.587.009 c** | **8.589.109 c** | **8.588.009 c** |
| 450 | 500-2500 | 2.500 | **8.587.010 c** | **8.589.110 c** | **8.588.010 c** |
| 500 | 1600-8000 | 8.000 | **8.587.011 c** | **8.589.111 c** | **8.588.011 c** |
| 600 | 4000-20000 | 20.000 | **8.587.012 c** | **8.589.112 c** | **8.588.012 c** |
| 650 | 9000-45000 | 45.000 | - | - | **8.588.013 c** |
| 700 | 20000-100000 | 100.000 | - | - | **8.588.014 c** |

**Viscometers.** Adjusted at 40 °C.
ASTM D445 and 446, ISO 3104 and 3105.
Uncalibrated. 3 types are available
1. Acc. to Cannon Fenske, not for opaque liquids.
2. Acc. to Cannon Fenske, BS 188, IP 71, for opaque liquids.
3. Acc. to Cannon Ubbelohde A and Dil. B.

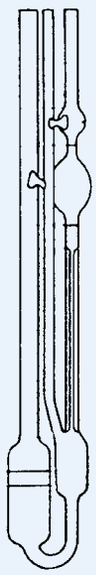
***Tubes viscosimètriques*** *selon ASTM D 445 et D446, ISO 3104 et ISO 3105, ajustés à 40°C. Non-calibrés. 3 modèles disponibles:*
*1. Cannon-Fenske pour liquides non-opaques*
*2. Cannon-Fenske selon BS 188, IP71 pour liquides opaques*
*3. Cannon-Ubbelohde A et B*

| Capillary<br>*Capillaire*<br>No. | Range cSt<br>*Echelle*<br>mm²/s (nominal) | Constant<br>*Constante*<br>K (nominal) | Order No.<br>*N° de code*<br>Type 1 | Order No.<br>*N° de code*<br>Type 2 | Order No.<br>*N° de code*<br>Type 3 |
|---|---|---|---|---|---|
| 25 | 0.4-2 | 0.002 | **8.587.001** | **8.589.101** | **8.588.001** |
| 50 | 0.8-4 | 0.004 | **8.587.002** | **8.589.102** | **8.588.002** |
| 75 | 1.6-8 | 0.008 | **8.587.003** | **8.589.103** | **8.588.003** |
| 100 | 3-15 | 0.015 | **8.587.004** | **8.589.104** | **8.588.004** |
| 150 | 7-35 | 0.035 | **8.587.005** | **8.589.105** | **8.588.005** |
| 200 | 20-100 | 0.100 | **8.587.006** | **8.589.106** | **8.588.006** |
| 300 | 50-200 | 0.250 | **8.587.007** | **8.589.107** | **8.588.007** |
| 350 | 100-500 | 0.500 | **8.587.008** | **8.589.108** | **8.588.008** |
| 400 | 240-1200 | 1.200 | **8.587.009** | **8.589.109** | **8.588.009** |
| 450 | 500-2500 | 2.500 | **8.587.010** | **8.589.110** | **8.588.010** |
| 500 | 1600-8000 | 8.000 | **8.587.011** | **8.589.111** | **8.588.011** |
| 600 | 4000-20000 | 20.000 | **8.587.012** | **8.589.112** | **8.588.012** |
| 650 | 9000-45000 | 45.000 | - | - | **8.588.013** |
| 700 | 20000-100000 | 100.000 | - | - | **8.588.014** |

**Viscometers,** ASTM D445 and D446, ISO 3104, 3105. Length approx. 283 mm. For use with transparent liquids.

***Tubes viscosimètriques*** *selon ASTM D 445 et D446, ISO 3104 et ISO 3105, pour liquides transparents.*

| Capillary<br>*Capillaire*<br>No. | Range cSt<br>*Echelle*<br>mm²/s (nominal) | Constant<br>*Constante*<br>K (nominal) | Order No.<br>*N° de code*<br>non-calibrated | Order No.<br>*N° de code*<br>calibrated |
|---|---|---|---|---|
| 0 | 0.3-1 | 0.001 | **8.589.001** | **8.589.101** |
| 0C | 0.6-3 | 0.003 | **8.589.002** | **8.589.102** |
| 0B | 1-5 | 0.005 | **8.589.003** | **8.589.103** |
| 1 | 2-10 | 0.010 | **8.589.004** | **8.589.104** |
| 1C | 6-30 | 0.030 | **8.589.005** | **8.589.105** |
| 1B | 10-50 | 0.050 | **8.589.006** | **8.589.106** |
| 2 | 20-100 | 0.100 | **8.589.007** | **8.589.107** |
| 2C | 60-300 | 0.300 | **8.589.008** | **8.589.108** |
| 2B | 100-500 | 0.500 | **8.589.009** | **8.589.109** |
| 3 | 200-1000 | 1.000 | **8.589.010** | **8.859.110** |
| 3C | 600-3000 | 3.000 | **8.589.011** | **8.859.111** |
| 3B | 1000-5000 | 5.000 | **8.589.012** | **8.589.112** |
| 4 | 2000-10000 | 10.000 | **8.589.013** | **8.589.113** |
| 4C | 6000-30000 | 30.000 | **8.589.014** | **8.589.114** |
| 4B | 10000-50000 | 50.000 | **8.589.015** | **8.589.115** |
| 5 | 20000-100000 | 100.000 | **8.589.016** | **8.589.116** |

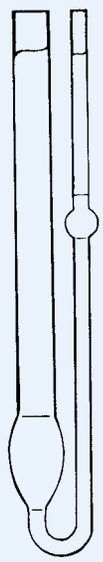


**8.589.1****

**Viscometers, Ostwald pattern.** For the determination of the viscosity of liquids. Ring marks and inscriptions in blue color

***Tubes viscosimètriques selon Ostwald.*** *Pour la détermination de la viscosité des liquides. Marques et repaires en bleu*

| Flow time<br>*Temps d'écoulement*<br>s | Nominal constant<br>*Constante nominale* | Order No.<br>*N° de code* |
|---|---|---|
| 45 | 0.022 | **8.589.201** |
| 85 | 0.011 | **8.589.202** |
| 125 | 0.008 | **8.589.203** |

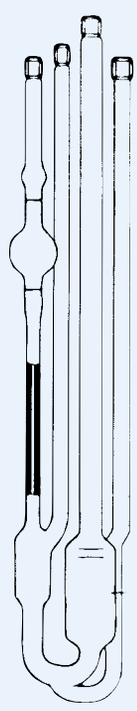


**8.589.2****

**Ubbelohde viscometers,** DIN type with imprinted constant acc. to ISO/DIN 3105, DIN 51502, BS 188, KFT 60-100.

***Tubes viscosimètriques Ubbelohde*** *selon ISO 3105, DIN 51502, BS 188, KFT 60-100*

| Capillary<br>*Capillaire*<br>No. | Inner Ø<br>*Ø int.* | Constant<br>*Constant*<br>K | Range<br>*Echelle*<br>mm²/s | Order No.<br>*N° de code*<br>non-calibrated<br>*non-calibré* | Order No.<br>*N° de code*<br>calibrated<br>*calibré* |
|---|---|---|---|---|---|
| 0 | 0.36 | 0.001 | 0.2-1 | **8.589.301** | **8.589.401** |
| 0c | 0.47 | 0.003 | 0-3 | **8.589.302** | **8.589.402** |
| 0a | 0.53 | 0.005 | 0.8-5 | **8.589.303** | **8.589.403** |
| I | 0.63 | 0.01 | 1.2-10 | **8.589.304** | **8.589.404** |
| Ic | 0.84 | 0.03 | 3-30 | **8.589.305** | **8.589.405** |
| Ia | 0.95 | 0.05 | 5-50 | **8.589.306** | **8.589.406** |
| II | 1.13 | 0.1 | 10-100 | **8.589.307** | **8.589.407** |
| IIc | 1.50 | 0.3 | 30-300 | **8.589.308** | **8.589.408** |
| IIa | 1.69 | 0.5 | 50-500 | **8.589.309** | **8.589.409** |
| III | 2.01 | 1 | 100-1000 | **8.589.310** | **8.589.410** |
| IIIc | 2.65 | 3 | 300-3000 | **8.589.311** | **8.589.411** |
| IIIa | 3.00 | 5 | 500-5000 | **8.589.312** | **8.589.412** |
| IV | 3.60 | 10 | 1000-10000 | **8.589.313** | **8.589.413** |



**8.589.3****

**Accessories /** *Accessoires*

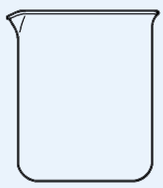
Fixing stand, VA-steel, for all Ubbelohde viscometers **8.589.550**
*Statif de fixation en acier inoxydable, pour tous les viscosimètres Ubbelohde*

**Further types are available upon request:**
Cannon Ubbelohde semi micro-viscometer.
Cross arm-viscometer.
Reverse-flow viscometer.
Semi micro viscometer.
Pinkevitek Viscometer.
Fitzsimons Viscometer (1+2 cap.).
Atlantic-Viscometer.
Zeitfuchs-Viscometer.
S. I. L.-viscometer.
U-Tube and Mini-U-Tube-Viscosimeter.
Special productions againgst your specs.

***D'autres modèles sont disponibles sur demande,*** *également avec certificat d'étalonnage officiel, pour les types suivants et aussi sur fabrication spéciale selon vos besoins*

**Beakers low form with spout, DIN 12332,** made of quartz-glass

***Béchers forme basse à bec, DIN 12332,*** *en verre de silice transparent*



**8.600.*****

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 22 | 31 | **8.600.005** |
| 10 | 26 | 36 | **8.600.010** |
| 25 | 32 | 47 | **8.600.025** |
| 50 | 40 | 55 | **8.600.050** |
| 100 | 50 | 70 | **8.600.100** |
| 150 | 55 | 80 | **8.600.150** |
| 250 | 69 | 90 | **8.600.250** |
| 400 | 85 | 100 | **8.600.400** |
| 600 | 90 | 126 | **8.600.600** |
| 800 | 98 | 135 | **8.600.800** |
| 1000 | 106 | 148 | **8.600.001** |

**Beakers high form with spout, DIN 12332,** made of quartz-glass

***Béchers forme haute à bec, DIN 12332,*** *en verre de silice transparent*

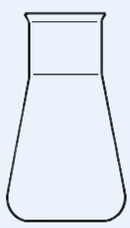


**8.601.*****

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 5 | 18 | 32 | **8.601.005** |
| 25 | 30 | 55 | **8.601.025** |
| 50 | 38 | 65 | **8.601.050** |
| 100 | 45 | 80 | **8.601.100** |
| 250 | 60 | 115 | **8.601.250** |
| 400 | 70 | 130 | **8.601.400** |
| 600 | 78 | 145 | **8.601.600** |
| 800 | 86 | 170 | **8.601.800** |
| 1000 | 95 | 185 | **8.601.001** |

**Erlenmeyer-Flasks, DIN 12385,** wide neck, made of quartz-glass, with rim

***Fioles Erlenmeyer, DIN 12385,*** *col large, en verre de silice transparent, à bord évasé*

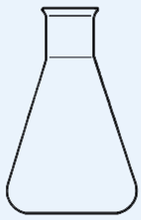


**8.605.*****

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 70 | 35 | **8.605.025** |
| 50 | 80 | 51 | **8.605.050** |
| 100 | 100 | 63 | **8.605.100** |
| 200 | 125 | 79 | **8.605.200** |
| 250 | 140 | 80 | **8.605.250** |
| 300 | 155 | 90 | **8.605.300** |
| 500 | 180 | 95 | **8.605.500** |
| 750 | 200 | 112 | **8.605.750** |
| 1000 | 200 | 129 | **8.605.001** |
| 2000 | 280 | 150 | **8.605.002** |

**Erlenmeyer-Flasks, DIN 12380,** narrow neck, made of quartz-glass, with rim

***Fioles Erlenmeyer, DIN 12380,*** *col étroit, en verre de silice transparent, à bord évasé*



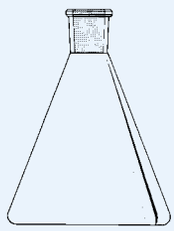
**8.606.*****

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 70 | 35 | **8.606.025** |
| 50 | 80 | 54 | **8.606.050** |
| 100 | 100 | 65 | **8.606.100** |
| 200 | 125 | 73 | **8.606.200** |
| 250 | 140 | 84 | **8.606.250** |
| 300 | 155 | 88 | **8.606.300** |
| 500 | 180 | 96 | **8.606.500** |
| 750 | 200 | 118 | **8.606.750** |
| 1000 | 200 | 136 | **8.606.001** |
| 2000 | 280 | 160 | **8.606.002** |

**Erlenmeyer-Flasks, DIN 12387,** wide neck, made of quartz-glass, with socket

***Fioles Erlenmeyer, DIN 12387,*** *col large, en verre de silice transparent, à rodage*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Socket<br>*Rodage*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 42 | 35 | 19/26 | **8.605.025 S** |
| 50 | 51 | 85 | 29/32 | **8.605.050 S** |
| 100 | 64 | 105 | 29/32 | **8.605.100 S** |
| 200 | 75 | 125 | 45/40 | **8.605.200 S** |
| 250 | 85 | 140 | 45/40 | **8.605.250 S** |
| 500 | 105 | 175 | 45/40 | **8.605.500 S** |
| 1000 | 131 | 220 | 45/40 | **8.605.001 S** |
| 2000 | 166 | 280 | 45/40 | **8.605.002 S** |

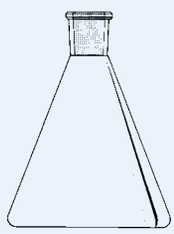


**8.605.*** S**

**Erlenmeyer-Flasks, DIN 12387,** narrow neck, made of quartz-glass, with socket

***Fioles Erlenmeyer, DIN 12387,*** *col étroit, en verre de silice transparent, à rodage*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Socket<br>*Rodage*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 42 | 70 | 14,5/23 | **8.606.025 S** |
| 50 | 51 | 85 | 14,5/23 | **8.606.050 S** |
| 100 | 64 | 105 | 14,5/23 | **8.606.100 S** |
| 150 | 74 | 115 | 19/26 | **8.606.150 S** |
| 200 | 79 | 125 | 29/32 | **8.606.200 S** |
| 250 | 85 | 140 | 29/32 | **8.606.250 S** |
| 300 | 87 | 150 | 29/32 | **8.606.300 S** |
| 500 | 105 | 175 | 29/32 | **8.606.500 S** |
| 750 | 118 | 200 | 29/32 | **8.606.750 S** |
| 1000 | 131 | 220 | 29/32 | **8.606.001 S** |
| 2000 | 166 | 280 | 29/32 | **8.606.002 S** |
| 3000 | 187 | 310 | 29/32 | **8.607.003 S** |

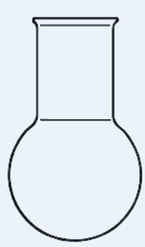


**8.606.*** S**

**Flask, round bottom, with short wide neck,** with beaded rim, made of quartz-glass

***Ballon à fond rond,*** *col large à bord évasé, en verre de silice tranparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 42 | 75 | **8.608.025** |
| 50 | 51 | 85 | **8.608.050** |
| 100 | 63 | 100 | **8.608.100** |
| 250 | 85 | 125 | **8.608.250** |
| 500 | 105 | 150 | **8.608.500** |
| 750 | 120 | 170 | **8.608.750** |
| 1000 | 130 | 200 | **8.608.001** |
| 2000 | 165 | 235 | **8.608.002** |

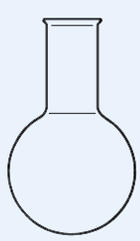


**8.608.***

**Flask, round bottom, with short narrow neck,** with beaded rim, made of quartz-glass

***Ballon à fond rond,*** *col étroit à bord évasé, en verre de silice tranparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 42 | 75 | **8.609.025** |
| 50 | 51 | 85 | **8.609.050** |
| 100 | 63 | 100 | **8.609.100** |
| 250 | 85 | 125 | **8.609.250** |
| 500 | 105 | 150 | **8.609.500** |
| 750 | 120 | 170 | **8.609.750** |
| 1000 | 130 | 200 | **8.609.001** |
| 2000 | 165 | 235 | **8.609.002** |



**8.609.***



**8.610.*****

**Flask, round bottom, with long narrow neck,** with beaded rim, made of quartz-glass

***Ballon à fond rond,** col étroit à bord évasé, en verre de silice tranparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 42 | 110 | **8.610.025** |
| 50 | 51 | 120 | **8.610.050** |
| 100 | 63 | 150 | **8.610.100** |
| 250 | 85 | 200 | **8.610.250** |
| 500 | 105 | 250 | **8.610.500** |
| 750 | 120 | 275 | **8.610.750** |
| 1000 | 130 | 300 | **8.610.001** |
| 2000 | 165 | 335 | **8.610.002** |



**8.608.*** S**

**Flask, round bottom, with wide neck,** with socket, made of quartz-glass

***Ballon à fond rond,** col large à rodage, en verre de silice tranparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Socket<br>*Rodage*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 51 | 105 | 29/32 | **8.608.050 S** |
| 100 | 64 | 115 | 29/32 | **8.608.100 S** |
| 250 | 85 | 145 | 45/40 | **8.608.250 S** |
| 500 | 105 | 175 | 45/40 | **8.608.500 S** |
| 1000 | 131 | 210 | 45/40 | **8.608.001 S** |
| 2000 | 165 | 260 | 45/40 | **8.608.002 S** |



**8.609.*** S**

**Flask, round bottom, with narrow neck,** with socket, made of quartz-glass

***Ballon à fond rond,** col étroit à rodage, en verre de silice tranparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Socket<br>*Rodage*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 25 | 41 | 67 | 14,5/23 | **8.609.025 S** |
| 50 | 51 | 105 | 19/26 | **8.609.050 S** |
| 100 | 64 | 115 | 19/26 | **8.609.100 S** |
| 250 | 85 | 145 | 29/32 | **8.609.250 S** |
| 500 | 105 | 175 | 29/32 | **8.609.500 S** |
| 1000 | 131 | 210 | 29/32 | **8.609.001 S** |
| 2000 | 165 | 260 | 29/32 | **8.609.002 S** |

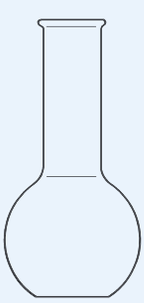


**8.611.*****

**Flask, flat bottom, with short neck, DIN 12375,** with beaded rim, made of quartz-glass

***Ballon à fond plat, DIN 12375,** col étroit à bord évasé, en verre de silice tranparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 42 | 70 | **8.611.025** |
| 50 | 51 | 70 | **8.611.050** |
| 100 | 63 | 90 | **8.611.100** |
| 250 | 85 | 125 | **8.611.250** |
| 500 | 105 | 150 | **8.611.500** |
| 750 | 117 | 175 | **8.611.750** |
| 1000 | 131 | 200 | **8.611.001** |
| 2000 | 165 | 200 | **8.611.002** |



**8.612.*****

**Flask, flat bottom, with long neck, DIN 12370,** with beaded rim, made of quartz-glass

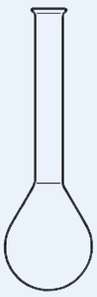
***Ballon à fond plat, DIN 12370,** col étroit à bord évasé, en verre de silice tranparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 25 | 42 | 75 | **8.612.025** |
| 50 | 51 | 85 | **8.612.050** |
| 100 | 63 | 100 | **8.612.100** |
| 250 | 85 | 150 | **8.612.250** |
| 500 | 105 | 200 | **8.612.500** |
| 750 | 117 | 215 | **8.612.750** |
| 1000 | 131 | 230 | **8.612.001** |
| 2000 | 165 | 250 | **8.612.002** |

**Kjeldahl Flasks, DIN 12360,** with beaded rim, made of quartz-glass

***Fioles de Kjeldahl, DIN 12360,*** *en verre de silice transparent, à bord évasé*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50 | 49 | 200 | **8.613.050** |
| 100 | 60 | 200 | **8.613.100** |
| 250 | 81 | 270 | **8.613.250** |
| 500 | 101 | 300 | **8.613.500** |
| 750 | 115 | 340 | **8.613.750** |
| 1000 | 126 | 350 | **8.613.001** |
| 2000 | 150 | 415 | **8.613.002** |

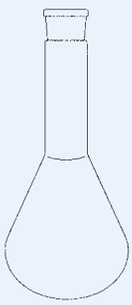


**8.613.*****

**Kjeldahl Flasks,** with socket, made of quartz-glass

***Fioles de Kjeldahl,*** *en verre de silice transparent, à rodage*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Socket<br>*Rodage*<br>ST | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 50 | 51 | 200 | 19/26 | **8.613.050 S** |
| 100 | 60 | 200 | 19/26 | **8.613.100 S** |
| 250 | 81 | 280 | 19/26 | **8.613.250 S** |
| 500 | 101 | 300 | 19/26 | **8.613.500 S** |
| 750 | 115 | 340 | 19/26 | **8.613.750 S** |
| 1000 | 126 | 350 | 19/26 | **8.613.001 S** |

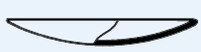


**8.613.*** S**

**Watch glasses, DIN 12341,** made of quartz-glass

***Verre de montre,*** *en silice, selon DIN 12341*

| Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 20 | **8.629.001** |
| 40 | **8.629.002** |
| 50 | **8.629.003** |
| 60 | **8.629.004** |
| 70 | **8.629.005** |
| 80 | **8.629.006** |
| 100 | **8.629.007** |

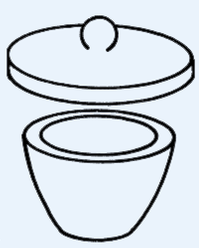


**8.629.*****

**Crucibles and cover,** low form, made of quartz-glass

***Creusets et couvercles,*** *forme basse, en verre de silice transparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Complete with cover<br>*Complet avec couvercle* | Crucible<br>*Creuset* | Cover<br>*Couvercle* |
|---|---|---|---|---|---|
| 6 | 30 | 20 | **8.630.001** | **8.630.101** | **8.630.201** |
| 15 | 40 | 26 | **8.630.002** | **8.630.102** | **8.630.202** |
| 29 | 50 | 33 | **8.630.003** | **8.630.103** | **8.630.203** |
| 50 | 60 | 40 | **8.630.004** | **8.630.104** | **8.630.204** |
| 150 | 70 | 56 | **8.630.005** | **8.630.105** | **8.630.205** |

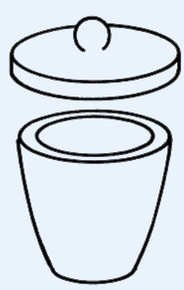


**8.630.*****

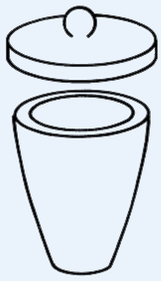
**Crucibles and cover,** medium form, made of quartz-glass

***Creusets et couvercles,*** *forme moyenne, en verre de silice transparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Complete with cover<br>*Complet avec couvercle* | Crucible<br>*Creuset* | Cover<br>*Couvercle* |
|---|---|---|---|---|---|
| 15 | 35 | 28 | **8.631.001** | **8.631.101** | **8.631.201** |
| 20 | 40 | 32 | **8.631.002** | **8.631.102** | **8.631.202** |
| 33 | 45 | 36 | **8.631.003** | **8.631.103** | **8.631.203** |
| 40 | 40 | 50 | **8.631.004** | **8.631.104** | **8.631.204** |
| 75 | 50 | 63 | **8.631.005** | **8.631.105** | **8.631.205** |



**8.631.*****

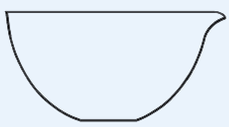


**8.633.*****

**Crucibles and cover,** tall form, made of quartz-glass

***Creusets et couvercles,** forme haute, en verre de silice transparent*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Complete with cover<br>*Complet avec couvercle* | Crucible<br>*Creuset* | Cover<br>*Couvercle* |
|---|---|---|---|---|---|
| 30 | 40 | 40 | **8.633.001** | **8.633.101** | **8.633.201** |
| 40 | 45 | 45 | **8.633.002** | **8.633.102** | **8.633.202** |
| 50 | 50 | 50 | **8.633.003** | **8.633.103** | **8.633.203** |
| 90 | 60 | 60 | **8.633.004** | **8.633.104** | **8.633.204** |
| 100 | 65 | 65 | **8.633.005** | **8.633.105** | **8.633.205** |



**8.651.*****

**Evaporating dishes, DIN 12341,** made of quartz-glass

***Capsules d'évaporation, en silice,** selon DIN 12341*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 10 | 40 | 18 | **8.651.001** |
| 15 | 50 | 25 | **8.651.002** |
| 45 | 60 | 30 | **8.651.003** |
| 60 | 70 | 35 | **8.651.004** |
| 90 | 80 | 45 | **8.651.005** |
| 170 | 95 | 55 | **8.651.006** |
| 320 | 115 | 65 | **8.651.007** |



**8.653.*****

**Crystallizing dishes,** with spout, made of quartz-glass

***Cristallisoirs à bec,** en silice*

| Capacity<br>*Capacité*<br>ml | Outer Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 20 | 40 | 25 | **8.653.001** |
| 40 | 50 | 30 | **8.653.002** |
| 60 | 60 | 35 | **8.653.003** |
| 100 | 70 | 40 | **8.653.004** |
| 150 | 80 | 45 | **8.653.005** |
| 300 | 95 | 55 | **8.653.006** |
| 400 | 100 | 60 | **8.653.007** |



**Witeg Wise Therm® F - Digital Muffle Furnaces**

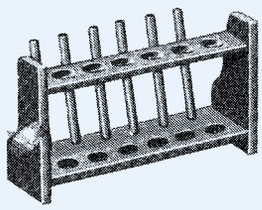
**With 4-side Heating & Digital PID Control System**

**for Lab & Industrie from 3 - 63 Lit., 1000 °C**

**Test tube supports,** made of polished wood

***Portoirs** en bois pour tubes à essais*

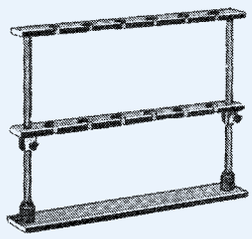
| Dimension<br>*Dimension*<br>mm | depth of holes<br>mm | Holes<br>*Orifices* | Order No.<br>*N° de code* |
|---|---|---|---|
| **Low form, height of deck 80 mm / *Forme basse, hauteur du rayonnage 80 mm*** | | | |
| 210 x 70 x 120 | 18 | 1 x 6 | **9.000.001** |
| 210 x 70 x 120 | 18 | 2 x 6 | **9.000.002** |
| **Tall form, 2 decks, height of deck 80 mm / *Forme haute, à 2 rayonnages de hauteur 80 mm*** | | | |
| 200 x 65 x 120 | 18 | 1 x 6 | **9.010.001** |
| 220 x 75 x 120 | 18 | 2 x 6 | **9.010.002** |
| 120 x 70 x 190 | 18 | 2 x 3 | **9.020.001** |
| 210 x 70 x 190 | 18 | 2 x 6 | **9.020.002** |
| 290 x 90 x 190 | 18 | 3 x 8 | **9.020.004** |
| **Height of deck 160 mm / *Forma basse, hauteur du rayonnage 160 mm*** | | | |
| 290 x 65 x 200 | 30 | 1 x 6 | **9.030.001** |
| 290 x 90 x 200 | 30 | 2 x 6 | **9.030.002** |
| **Tall form, 2 decks, height of deck 80 mm / *Forme haute , à 2 rayonnages de hauteur 160 mm*** | | | |
| 120 x 70 x 190 | 18 | 2 x 3 | **9.040.001** |
| 210 x 90 x 190 | 18 | 2 x 6 | **9.040.002** |
| 370 x 90 x 190 | 18 | 2 x 12 | **9.040.004** |
| 370 x 190 x 150 | 18 | 4 x 12 | **9.040.006** |



**Filtration support (funnel support),** made of polished wood. Detachable, height adjustable, height 500 mm

***Support de filtration** en bois, pour trois entonnoirs, hauteur réglable, 500 mm*

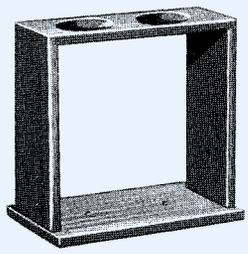
| Dimension<br>*Dimension*<br>mm | No. of openings<br>*Nombre de places* | Rows | Order No.<br>*N° de code* |
|---|---|---|---|
| 110 x 300 | 2 | 1 | **9.050.003** |



**Support for Imhof-funnels,** made of polished wood. Ø of bore 80 mm

***Support** en bois pour deux cônes d'Imhoff, orifices de 80 mm*

| Dimension<br>*Dimension*<br>mm | No. of openings<br>*Nombre de places*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 300 x 180 x 300 | 2 | **9.130.002** |





**9.200.*****

**Steristoppers,** made of cellulose. "BIOGEN". For steril non-toxic closure of different cultures, sterilizable and autoclavable, air-pervions and cateria filtering.

***Bouchons*** *en cellulose "BIOGEN", pour fermeture stérile non-toxique de cultures, autoclavables*

| For neck inner Ø<br>*Pour col de Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 6.5 - 7 | 9.200.004 |
| 5.5 - 6.5 | 9.200.005 |
| 6.5 - 7.5 | 9.200.006 |
| 8.5 - 9.5 | 9.200.007 |
| 9.5 | 9.200.008 |
| 10.5 - 11.5 | 9.200.009 |
| 9.5 - 11.5 | 9.200.010 |
| 12 - 14.5 | 9.200.011 |
| 11.5 - 13.5 | 9.200.012 |
| 12.5 - 14.5 | 9.200.013 |
| 13 - 14.5 | 9.200.014 |
| 13.5 - 15.5 | 9.200.015 |
| 16.5 - 18 | 9.200.016 |
| 13 - 16 | 9.200.017 |
| 17.5 - 18.5 | 9.200.018 |
| 19 - 22 | 9.200.019 |
| 20.5 - 22 | 9.200.020 |
| 21.5 - 23 | 9.200.022 |
| 26 - 27 | 9.200.026 |
| 27 - 32.5 | 9.200.027 |
| 29.5 - 31 | 9.200.029 |
| 32.5 - 35 | 9.200.032 |
| 33.5 - 36.5 | 9.200.034 |
| 35.5 - 39.5 | 9.200.036 |
| 37.5 - 41.5 | 9.200.037 |



**9.201.*****

**Stoppers,** silicone, transparent, flexible, extremly resistant against high temperature, cold and chemical attacks (-60 to +180 °C).

***Bouchons*** *en silicone tranparent, flexibles, à haute résistance thermique (-60/+ 180°C) et chimique*

| Ø top / bottom<br>*Ø Sup./Inf.*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 6.5/3.5 | 15 | 9.201.001 |
| 9/5 | 20 | 9.201.002 |
| 12/8 | 20 | 9.201.003 |
| 14.5/10 | 20 | 9.201.004 |
| 16.5/12.5 | 20 | 9.201.005 |
| 18/14 | 20 | 9.201.006 |
| 22/17 | 25 | 9.201.007 |
| 24/18 | 30 | 9.201.008 |
| 27/21 | 30 | 9.201.009 |
| 29/23 | 30 | 9.201.010 |
| 32/26 | 30 | 9.201.011 |
| 35/29 | 30 | 9.201.012 |
| 38/31 | 35 | 9.201.013 |
| 44/36 | 40 | 9.201.014 |
| 45/41 | 40 | 9.201.015 |
| 55/47 | 40 | 9.201.016 |
| 59.5/50.5 | 45 | 9.201.017 |
| 65/56 | 45 | 9.201.018 |
| 70/60 | 50 | 9.201.019 |
| 75.5/64.5 | 55 | 9.201.020 |
| 83/71 | 60 | 9.201.021 |
| 92/79 | 65 | 9.201.022 |
| 100/87 | 65 | 9.201.023 |
| 107/94 | 65 | 9.201.024 |

**Please refer also page 608**
*veuillez svp vous référe aux page 608*

**Grey-blue rubber stoppers**
- Natural rubber
- Elastic and resistant providing good tightness and adhesion
- Withstands chemical agents in normal laboratory use
- Temperature from -35°C to +70°C (+120 °C in damp heat)
- Recommended in contact with non agressive or low concentrated solutions

***Bouchons en caoutchouc gris-bleu***
- *Caoutchouc naturel*
- *Élastiques et haute résistance avec bonne étanchéité*
- *Résistants contre les agents chimiques au laboratoire*
- *Plage de température -35°C à +70°C. (+120°C sous vapeur)*
- *Recommandés en contact avec les solutions non-aggrésives ou faiblement concentrées*

| bottom / top<br>mm | Length<br>*Longueur* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* | Order No.<br>*N° de code*<br>1 hole / *1 trou* |
|---|---|---|---|---|
| 3.5/6.5 | 15.0 | 100<br>50 | **9.202.000**<br>**9.202.001** | |
| 4.0/8.0 | 20.0 | 100<br>50 | **9.202.003**<br>**9.202.004** | |
| 5.0/9.0 | 20.0 | 100<br>50 | **9.202.005**<br>**9.202.006** | |
| 8.0/12.0 | 20.0 | 50 | **9.202.007** | **9.202.107** |
| 10.5/14.5 | 20.0 | 50 | **9.202.008** | |
| 12.5/16.5 | 20.0 | 50 | **9.202.009** | |
| 14.0/18.0 | 20.0 | 50<br>25 | **9.202.010**<br>**9.202.011** | |
| 17.0/22.0 | 25.0 | 50<br>25 | **9.202.012**<br>**9.202.013** | **9.202.112**<br>**9.202.113** |
| 18.0/24.0 | 30.0 | 50<br>10 | **9.202.014**<br>**9.202.015** | |
| 21.0/27.0 | 30.0 | 50<br>10 | **9.202.016**<br>**9.202.017** | **9.202.116**<br>**9.202.117** |
| 23.0/29.0 | 30.0 | 50 | **9.202.018** | |
| 26.0/32.0 | 30.0 | 10 | **9.202.019** | **9.202.119** |
| 29.0/35.0 | 30.0 | 20<br>10 | **9.202.020**<br>**9.202.021** | **9.202.120**<br>**9.202.121** |
| 31.0/38.0 | 35.0 | 10 | **9.202.022** | |
| 34.0/41.0 | 35.0 | 20<br>5 | **9.202.023**<br>**9.202.025** | |
| 36.0/44.0 | 40.0 | 20<br>5 | **9.202.026**<br>**9.202.027** | |
| 41.0/49.0 | 40.0 | 10<br>5 | **9.202.028**<br>**9.202.029** | |
| 47.0/55.0 | 40.0 | 10<br>5 | **9.202.030**<br>**9.202.031** | |
| 50.5/59.5 | 45.0 | 10<br>5 | **9.202.032**<br>**9.202.033** | |
| 56.0/65.0 | 45.0 | 5 | **9.202.034** | |
| 60.0/70.0 | 50.0 | 5 | **9.202.035** | |
| 64.5/75.5 | 55.0 | 5 | **9.202.036** | |
| 71.0/83.0 | 60.0 | 5 | **9.202.037** | |
| 79.0/92.0 | 65.0 | 5 | **9.202.038** | |
| 87.0/100.0 | 65.0 | 5<br><br>1 | **9.202.039**<br>**9.202.040**<br>**9.202.041** | |
| 94.0/107.0 | 65.0 | 1 | **9.202.042** | |



**9.202.0****



**9.202.2****

**Grey-blue rubber stoppers**
- Natural rubber
- Elastic and resistant providing good tightness and adhesion
- Withstands chemical agents in normal laboratory use
- Temperature from -35°C to +70°C (+120 °C in damp heat)
- Recommended in contact with non agressive or low concentrated solutions
- From 1 to 5 pre - holes

***Bouchons en caoutchouc gris-bleu***
- *Caoutchouc naturel*
- *Élastiques et haute résistance avec bonne étanchéité*
- *Résistants contre les agents chimiques au laboratoire*
- *Pplage de température -35°C à +70°C. (+120°C sous vapeur)*
- *Recommandés en contact avec les solutions non-aggrésives ou faiblement concentrées*
- *Livrables avec 1 à 5 trous*

| bottom / top<br>*Ø Sup./Inf.*<br>mm | Length<br>*Longueur*<br>mm | No. of holes<br>*N° de trous* | Ø of holes<br>*Ø de trous*<br>mm | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|---|
| 8.0/12.0 | 20.0 | 1 | 4.0 | 50 | **9.202.200** |
| 10.5/14.5 | 20.0 | 1 | 4.5 | 50 | **9.202.201** |
| 14.0/18.0 | 20.0 | 2 | 4.5 | 50 | **9.202.202** |
| 17.0/22.0 | 25.0 | 3 | 4.5 | 50 | **9.202.203** |
| 18.0/24.0 | 30.0 | 3 | 5.0 | 50 | **9.202.204** |
| 21.0/27.0 | 30.0 | 5 | 6.0 | 50 | **9.202.205** |
| 29.0/35.0 | 30.0 | 5 | 6.5 | 20 | **9.202.206** |
| 31.0/38.0 | 35.0 | 5 | 6.5 | 20 | **9.202.207** |
| 34.0/41.0 | 35.0 | 5 | 6.5 | 20 | **9.202.208** |
| 36.0/44.0 | 40.0 | 5 | 6.5 | 20 | **9.202.209** |
| 47.0/55.0 | 40.0 | 5 | 7.0 | 10 | **9.202.210** |
| 50.5/59.5 | 45.0 | 5 | 9.0 | 10 | **9.202.211** |
| 56.0/65.0 | 45.0 | 5 | 9.5 | 5 | **9.202.212** |
| 60.0/70.0 | 50.0 | 5 | 10.0 | 5 | **9.202.213** |
| 87.0/100.0 | 65.0 | 5 | 11.5 | 3 | **9.202.214** |



**9.202.3****

**Versilic stoppers**
- High grade translucent pure silicone
- Biological neutral, chemical inert
- Temperature from -60 °C to +200 °C (peaks at +220 °C)

***Bouchons pleins en versilic (silicone)***
- *en silicone pure translucide*
- *Biologiquement neutre, chimiquement inerte*
- *Plage de température -60 °C à +200 °C (temporairement judqu'à +220 °C)*

| Ø top / bottom<br>*Ø Sup./Inf.*<br>mm | Length<br>*Longueur*<br>mm | | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 3.5 | 6.5 | 15.0 | 50 | **9.202.300** |
| 4.0 | 8.0 | 20.0 | 50 | **9.202.301** |
| 5.0 | 9.0 | 20.0 | 50 | **9.202.302** |
| 8.0 | 12.0 | 20.0 | 50 | **9.202.303** |
| 10.5 | 14.5 | 20.0 | 50 | **9.202.304** |
| 12.5 | 16.5 | 20.0 | 50 | **9.202.305** |
| 14.0 | 18.0 | 20.0 | 20 | **9.202.306** |
| 17.0 | 22.0 | 25.0 | 20 | **9.202.307** |
| 18.0 | 24.0 | 30.0 | 20 | **9.202.308** |
| 21.0 | 27.0 | 30.0 | 10 | **9.202.309** |
| 23.0 | 29.0 | 30.0 | 10 | **9.202.310** |
| 26.0 | 32.0 | 30.0 | 10 | **9.202.311** |
| 29.0 | 35.0 | 30.0 | 5 | **9.202.312** |
| 31.0 | 38.0 | 35.0 | 5 | **9.202.313** |
| 34.0 | 41.0 | 35.0 | 5 | **9.202.314** |
| 36.0 | 44.0 | 40.0 | 5<br>2 | **9.202.315**<br>**9.202.316** |
| 41.0 | 49.0 | 40.0 | 2 | **9.202.317** |
| 47.0 | 55.0 | 40.0 | 2 | **9.202.318** |
| 50.5 | 59.5 | 45.0 | 2 | **9.202.319** |
| 56.0 | 65.0 | 45.0 | 2 | **9.202.320** |
| 60.0 | 70.0 | 50.0 | 2 | **9.202.321** |
| 64.5 | 75.5 | 55.0 | 2 | **9.202.322** |
| 71.0 | 83.0 | 60.0 | 2 | **9.202.323** |
| 79.0 | 92.0 | 65.0 | 1 | **9.202.324** |
| 87.0 | 100.0 | 65.0 | 1 | **9.202.325** |

**Cork stoppers,** for laboratory purposes, extra fine quality SI, packed in plastic bags (see minimum quantity). Smaller quantities are only available at surcharge of 40%

***Bouchons** en liège de laboratoire, trés bonne qualité, livrés en sachet standard (voir quantité minimum). Une quantité inférieure fera objet d'un supplément de prix de 40%*

| Ø top / bottom<br>*Ø Sup./Inf.*<br>mm | Length<br>*Longueur*<br>mm | Type<br>*Type* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 10/7 | 19 | 0 | 200 | **9.300.000** |
| 12/9 | 17 | 1 | 200 | **9.300.001** |
| 15/12 | 22 | 2 | 200 | **9.300.002** |
| 17/14 | 22 | 3 | 200 | **9.300.003** |
| 20/17 | 22 | 4 | 100 | **9.300.004** |
| 26/22 | 27 | 5 | 100 | **9.300.005** |
| 30/26 | 27 | 6 | 100 | **9.300.006** |
| 36/32 | 27 | 7 | 50 | **9.300.007** |
| 40/36 | 27 | 8 | 50 | **9.300.008** |
| 45/40 | 30 | 9 | 25 | **9.300.009** |
| 50/45 | 30 | 10 | 25 | **9.300.010** |
| 55/50 | 30 | 11 | 25 | **9.300.011** |
| 60/55 | 30 | 12 | 10 | **9.300.012** |
| 65/60 | 30 | 13 | 10 | **9.300.013** |
| 70/65 | 30 | 14 | 10 | **9.300.014** |
| 75/70 | 30 | 15 | 10 | **9.300.015** |
| 80/75 | 30 | 16 | 10 | **9.300.016** |
| 85/80 | 30 | 17 | 10 | **9.300.017** |
| 90/85 | 30 | 18 | 10 | **9.300.018** |
| 95/90 | 30 | 19 | 5 | **9.300.019** |
| 100/95 | 30 | 20 | 5 | **9.300.020** |



**9.300.*****

**Cork laboratory rings,** for supporting flasks, dishes etc. height 30 mm.

***Anneaux** en liège, pour ballon ou autre récipient. Hauteur 30 mm*

| For flask<br>*Pour flacon*<br>ml | Outer Ø<br>*Ø ext.*<br>mm | Inner Ø<br>*Ø int.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| 50-250 | 80 | 30 | **9.302.001** |
| 500-1000 | 110 | 60 | **9.302.002** |
| 2000-4000 | 140 | 90 | **9.302.003** |
| 6000-10000 | 170 | 120 | **9.302.004** |
| 20000 | 210 | 150 | **9.302.005** |
| | 240 | 180 | **9.302.006** |



**9302.*****




**Witeg WiseCircu® WCH**

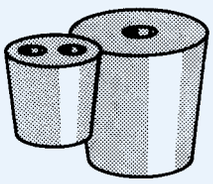
**High Temperature Bath Circulators**

**With Digital Fuzzy Control & Digital LCD Backlight System**

**for your Laboratory, from 8 - 30 Lit., up to 250 °C, ± 0.1 °C**



9.303.***



9.305.***

**Rubber stoppers,** grey natural rubber, solid, shore-hardness 35 - 5°, specific weight 0,99, non-toxic, low sulphur content, especially for laboratory purposes. Rubber stoppers are available with 1 or 2 holes, 3 - 8 mm Ø.

***Bouchons de laboratoire*** *en caoutchouc naturel gris, dureté shore 35-5°, faible teneur en soufre. Disponibles également avec 1 ou 2 trous compris entre 3 et 8 mm chacun en fonction du diamètre du bouchon*

| Ø top / bottom<br>*Ø Sup./Inf.*<br>mm | Length<br>*Longueur*<br>mm | Type<br>*Type* | Standard pack<br>*Conditionnement*<br>pcs. | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 8/4 | 20 | 0 | 200 | **9.303.000** |
| 10/6 | 20 | 1 | 200 | **9.303.001** |
| 13/9 | 20 | 2 | 200 | **9.303.002** |
| 15/11 | 20 | 3 | 200 | **9.303.003** |
| 19/14 | 20 | 4 | 100 | **9.303.004** |
| 21/16 | 25 | 5 | 100 | **9.303.005** |
| 24/19 | 25 | 6 | 100 | **9.303.006** |
| 27/22 | 25 | 7 | 50 | **9.303.007** |
| 31/25 | 30 | 8 | 50 | **9.303.008** |
| 34/28 | 30 | 9 | 25 | **9.303.009** |
| 38/31 | 35 | 10 | 25 | **9.303.010** |
| 41/34 | 35 | 11 | 25 | **9.303.011** |
| 45/38 | 35 | 12 | 10 | **9.303.012** |
| 49/42 | 35 | 13 | 10 | **9.303.013** |
| 54/46 | 40 | 14 | 10 | **9.303.014** |
| 60/50 | 50 | 15 | 10 | **9.303.015** |
| 73/63 | 50 | 16 | 10 | **9.303.016** |
| 90/70 | 50 | 17 | 10 | **9.303.017** |
| 92/78 | 50 | 18 | 10 | **9.303.018** |
| 95/85 | 50 | 19 | 5 | **9.303.019** |
| 105/95 | 50 | 20 | 5 | **9.303.020** |
| Surcharge for 1 hole<br>*Supplément pour 1 trou* | | | | **9.305.001** |
| Surcharge for 2 holes<br>*Supplément pour 2 trous* | | | | **9.305.002** |

## Rubber Tubing
*Tuyau en caoutchouc*



9.311.***

**Rubber tubing** for laboratory purposes, quality "Para HR 1374 red"

***Tuyau*** *en caoutchouc rouge pour laboratoire (eau et gaz), qualité Para HR 1374*

| Inner Ø<br>*Ø int.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 3 | 1.5 | **9.311.001** |
| 4 | 1.5 | **9.311.002** |
| 5 | 1.5 | **9.311.003** |
| 6 | 1.5 | **9.311.004** |
| 6 | 2 | **9.311.005** |
| 7 | 1.5 | **9.311.006** |
| 7 | 2 | **9.311.007** |
| 8 | 2 | **9.311.008** |
| 9 | 2 | **9.311.009** |
| 10 | 2 | **9.311.010** |
| 12 | 2.5 | **9.311.011** |
| 12 | 3 | **9.311.012** |
| 15 | 3 | **9.311.013** |
| 20 | 3.5 | **9.311.014** |



9.312.***

**Rubber vacuum tubing (high pressure)** for laboratory purposes, quality "Para HR 1374 red"

***Tuyau pour vide*** *en caoutchouc rouge, résistant à la haute pression, qualité Para HR 1374*

| Inner Ø<br>*Ø int.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 4 | 3 | **9.312.001** |
| 5 | 5 | **9.312.002** |
| 6 | 3.5 | **9.312.003** |
| 7 | 5 | **9.312.004** |
| 8 | 6 | **9.312.005** |
| 10 | 5 | **9.312.006** |

## PVC Tubing
*Tuyau souple en PVC*

**PVC-tubing,** clear, resistant against acids and oil, approx. 65/70° shore hardness

***Tuyau souple*** *en PVC cristal, résistant aux acides et huiles, dureté shore env. 65/70°*

| Inner Ø<br>*Ø int.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 2 | 1 | **9.313.002** |
| 4 | 1.5 | **9.313.004** |
| 5 | 1 | **9.313.005** |
| 6 | 1.5 | **9.313.006** |
| 6 | 2 | **9.313.007** |
| 7 | 1.5 | **9.313.008** |
| 8 | 1.5 | **9.313.009** |
| 9 | 2 | **9.313.010** |
| 10 | 2 | **9.313.011** |
| 12 | 2 | **9.313.013** |
| 16 | 2 | **9.313.016** |
| 19 | 2.5 | **9.313.018** |



**Glass-clear PVC hose**
*PVC standard*

**9.313.*****

**PVC-high pressure-tubing,** transparent, flexible, with armation, resistant to acids, chemical solutions, gases etc.

***Tuyau pour haute pression*** *en PVC cristal et armé, résistant aux acides, solutions chimiques, gaz etc....*

| Inner Ø<br>*Ø int.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 4 | 3 | **9.314.001** |
| 5 | 3 | **9.314.002** |
| 6 | 3 | **9.314.003** |
| 8 | 3 | **9.314.004** |
| 9 | 3 | **9.314.015** |
| 10 | 3 | **9.314.016** |
| 16 | 4 | **9.314.018** |
| 19 | 4 | **9.314.019** |



**Clear PVC pressure hose**
*PVC renforcé*

**9.314.*****

## Polyethylene Tubing
*Tuyau souple en Polyéthylène*

Polyethylene-tubing, transparent, flexible, resistant to acids, alkalis, alcohol, salt solutions up to +40 °C, but not to benzene, kerosene and organic solutions

***Tuyau*** *en polyéthylène souple, transparent et flexible, résistant aux acides, bases, alcools, solutions salées jusqu'à +40°C (excepté le benzène, le kérosène et les solutions organiques)*

| Inner Ø<br>*Ø int.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 4 | 1 | **9.315.001** |
| 6 | 1 | **9.315.002** |
| 7 | 1.5 | **9.315.003** |
| 8 | 1 | **9.315.004** |
| 10 | 2 | **9.315.005** |
| 12 | 2 | **9.315.006** |



**9.315.*****

## Silicone Tubing
*Tuyau souple en Silicone*

**Silicone-tubing,** transparent, flexible, extremly resistant to heat, cold, and chemical attacks, qualify special ST 7450

***Tuyau*** *en silicone transparent et flexible, haute résistance chimique et thermique, qualité spéciale ST 7450*



**9.316.*****

| Inner Ø<br>*Ø int.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 1 | 1 | **9.316.001** |
| 2 | 0.3 | **9.316.002** |
| 2 | 1 | **9.316.003** |
| 3 | 0.4 | **9.316.004** |
| 3 | 1 | **9.316.005** |
| 4 | 1 | **9.316.006** |
| 4 | 1.5 | **9.316.007** |
| 5 | 1.5 | **9.316.008** |
| 6 | 1.5 | **9.316.009** |
| 6 | 2 | **9.316.010** |
| 7 | 1.5 | **9.316.011** |
| 8 | 2 | **9.316.012** |
| 10 | 2.5 | **9.316.013** |
| 12 | 2 | **9.316.014** |

## Teflon Tubing
*Tuyau souple en Téflon*

**Teflon-tubing,** natural colour, flexible. Temperature resistant from -200 °C to +275 °C, non-inflammable. Water absorbance max. 0.1 %. Resistant to aggressive media, even at high temperature

***Tuyau*** *en téflon à couleur naturelle, flexible, Haute résistance thermique de -200°C à +275°C et chimique, non-inflammable. Absorbance max. en eau de 0.1%*



**9.317.*****

| Inner Ø<br>*Ø int.*<br>mm | Wall thickness<br>*Epaisseur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 2 | 0.5 | **9.317.004** |
| 3 | 0.5 | **9.317.005** |
| 4 | 1 | **9.317.006** |
| 8 | 1 | **9.317.010** |

**Latex examination gloves,** soft latex gloves for biological, radioimmunological uses, autoclavable, excellent stretch, 400 mm length, ambidextrous and hyperallergic, powdered with cornstarch, 100 pieces per dispenser box

***Gants d'examen poudrés,*** *en latex souple et autoclavable. Longueur 400 mm, livrés par 100 dans un carton de distribution*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 6/7 | **9.318.101** |
| 7/8 | **9.318.102** |
| 8/9 | **9.318.103** |



**9.318.1****

**Vynil examination gloves,** for laboratory and medical purpose, 100 pieces per dispenser box

***Gants d'examen en vynil,*** *pour utilisation en laboratoire ou dans le médicial, livrés par 100 dans un carton de distribution*

| Size<br>*Taille* | Order No.<br>*N° de code* |
|---|---|
| 6/7 | **9.318.201** |
| 7/8 | **9.318.202** |
| 8/9 | **9.318.203** |



**9.318.2****

**Needle holder acc. to Kolle**
Length 210mm

***Porte-aiguille selon Kolle (manche de Pasteur)*** *longueur totale 210 mm*

| Description<br>*Description* | Order No.<br>*N° de code* |
|---|---|
| Needle holder, acc. to Kolle<br>*Porte-aiguille selon Kolle* | **9.318.300** |



**9.918.3****

**Needles and Inoculating loops**

***Anses d'inoculation pour encemencement et aiguilles de dissection***

| Type / Material<br>*Type, Matière* | Loops<br>*Oeillet*<br>mm | Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|---|
| Chrom brass | 1.5 | 70 | **9.318.404** |
| Chrom brass | 2.5 | 70 | **9.318.405** |
| Chrom brass | 4 | 70 | **9.318.406** |
| 1.0 mm dia./Platinum | 2 | 60 | **9.318.502** |
| 1.0 mm dia./Platinum | 3 | 60 | **9.318.503** |
| 1.0 mm dia./Platinum | 4 | 60 | **9.318.504** |
| 1.0 mm dia./Platinum | 5 | 60 | **9.318.505** |
| 1.0 mm dia./Platinum | 6 | 60 | **9.318.506** |
| Needle, straight | – | 50 | **9.318.601** |
| Needle, bent | – | 50 | **9.318.602** |



**9.318.4****

**Pipette sterilizing box,** stretchable, aluminum. 280-420 mm length. 60 mm Ø. For pipettes with different lengths

***Boite de stérilisation*** *en aluminium pour pipettes diverses, télescopique de 280-420 mm, Ø 60 mm*

| | Order No.<br>*N° de code* |
|---|---|
| | **9.325.001** |



**9.325.001**

**Pipette sterilizing box,** 70 x 70 mm, bottom and lid covered with silicone-rubber, made of non-corrosive metal

***Boite de stérilisation carrée*** *en acier non corrosif pour pipettes diverses, dimensions 70 x 70mm. Couvercle et fond à revêtement de caoutchouc siliconé*

| Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 170 | **9.326.001** |
| 270 | **9.326.002** |
| 380 | **9.326.003** |
| 450 | **9.326.004** |



**9.326.*****



**9.328.*****

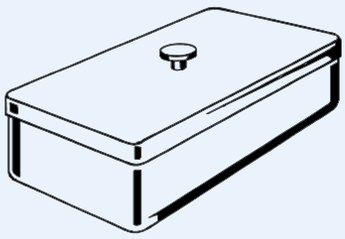
**Sterilizing and storage boxes,** aluminum. With overlapping cover for test tubes, centrifuge tubes, petri dishes, Pasteur pipettes, graduated pipettes, sterile instruments etc.

***Boites de stérilisation et de stockage*** *en aluminium, pour tubes à essai, tubes à centrifuger, boites de petri, pipettes de Pasteur ou graduées, instruments etc...*

| Height<br>*Hauteur*<br>mm | Outer Ø<br>*Ø ext.*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 270 | 140 | **9.328.001** |
| 175 | 120 | **9.328.003** |
| 120 | 120 | **9.328.004** |

Accessories / *Accessoires*

| | |
|---|---|
| Petri dish holder with handle for 10 - 12 petri dishes 80 - 120 mm Ø, suitable for Order No. 9.328.001<br>*Portoir avec anse pour 10 à 12 boites de petri de dia. 80 à 120 mm, recommandé pour l'article No. 9.328.001* | **9.328.101** |



**9.329.*****

**Instrument trays,** made of stainless steel, with overlapping knobcover, tarn

***Boites à instruments rectangulaires,*** *en acier inoxydable, avec couvercle à bouton*

| Dimension<br>*Dimension*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 200 x 100 | 50 | **9.329.002** |
| 220 x 150 | 50 | **9.329.003** |
| 260 x 150 | 50 | **9.329.004** |
| 305 x 205 | 50 | **9.329.005** |



**9.330.*****

**Instrument jars,** made of stainless steel, with base

***Boites à instrument circulaires,*** *en acier inoxydable*

| Outer Ø<br>*Ø ext*<br>mm | Height<br>*Hauteur*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| 50 | 120 | **9.330.003** |
| 100 | 150 | **9.330.007** |
| 100 | 200 | **9.330.008** |



**9.331.*****

**Dewar vessels in metal jacket,** tubular form, flask made of borosilicate glass, silvered and evacuated. Jacket stove-enamelled, offering excellent protection

***Vases de Dewar*** *en verre borosilicaté à manteau métallique de protection*

| Capacity<br>*Capacité*<br>ml | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Weight<br>*Poids*<br>kg | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 300 | 47 | 190 | 0.5 | **9.331.001** |
| 500 | 57 | 210 | 0.8 | **9.331.002** |
| 800 | 67 | 240 | 1.0 | **9.331.003** |
| 1000 | 77 | 235 | 1.1 | **9.331.004** |
| 1500 | 100 | 240 | 1.4 | **9.331.005** |
| 2000 | 100 | 290 | 1.8 | **9.331.006** |
| 3000 | 138 | 240 | 2.3 | **9.331.007** |



**9.333.*****

**Dewar vessels in metal jacket,** having insulated clamp-on lid and carrying handle, flask made of borosilicate glass, silvered and evacuated. Jacket stove-enamelled

***Vases de Dewar*** *en verre borosilicaté à manteau métallique de protection, livré abvec couvercle et poignée*

| Capacity<br>*Capacité*<br>ml | Inner Ø<br>*Ø int.*<br>mm | Height<br>*Hauteur*<br>mm | Weight<br>*Poids*<br>kg | Order No.<br>*N° de code* |
|---|---|---|---|---|
| 1000 | 100 | 165 | 1.5 | **9.333.001** |
| 2000 | 138 | 170 | 2.0 | **9.333.002** |
| 3000 | 138 | 230 | 2.5 | **9.333.003** |
| 4000 | 138 | 310 | 3.0 | **9.333.004** |

**Brushes.** For all laboratory purposes. With wooden handle or bristle on twisted wire.

***Goupillons pour laboratoire,*** *avec manche en bois ou à fil d'acier torsadé*

| For<br>*Pour* | Ø<br>*Ø*<br>mm | Order No.<br>*N° de code* |
|---|---|---|
| Pipettes, Pipe cleaners<br>*Pour nettoyage des pipettes* | 5 | **9.335.001** |
| Injection<br>*Pour injecteur* | 10 | **9.335.002** |
| Test tubes, wool tip<br>*Pour tube à essai, avec embout* | 15 | **9.335.003** |
| Test tubes, wool tip<br>*Pour tube à essai, avec embout* | 30 | **9.335.004** |
| Flasks and bottles<br>*Pour fiole et flacon* | 45 | **9.335.005** |
| Flasks and bottles<br>*Pour fiole et flacon* | 60 | **9.335.006** |
| Beakers, wooden handle<br>*Pour bécher, avec manche en bois* | 60 | **9.335.007** |
| Beakers, wooden handle<br>*Pour bécher, avec manche en bois* | 75 | **9.335.008** |
| Beakers, wooden handle<br>*Pour bécher, avec manche en bois* | 90 | **9.335.009** |
| Burettes, 1m long<br>*Pour burette, longueur 1 m* | 30 | **9.335.010** |
| Sieves<br>*Pour tamis* | 65 | **9.335.011** |

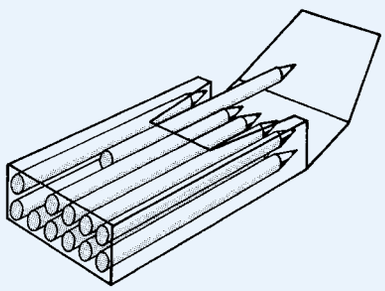


**9.335.*****

**Glass marking pencils,** for writing on or marking glass, lead-cased. Temperature resistant up to +250 °C. Packed of 1 dozen

***Crayons pour écrire ou marquer sur le verre.*** *Résistant à la température jusqu'à 250°C. En paquet de 12*

| Colour<br>*Couleur* | Order No.<br>*N° de code* |
|---|---|
| | **9.336.001** |
| | **9.336.002** |
| | **9.336.003** |
| | **9.336.004** |
| | **9.336.005** |
| | **9.336.006** |
| | **9.336.007** |



**9.336.*****

**Blood lancets,** stainless steel. Disposable, single sterile packed. 1000 pcs. in carton

***Lancettes sanguines stériles,*** *en acier inoxydable à usage unique, emballage individuel, conditionnement de 1000*

| | Order No.<br>*N° de code* |
|---|---|
| | **9.900.000** |



**9.900.0****

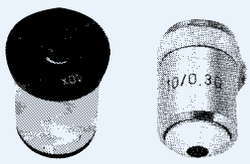
**Stirring rods,** made of glass, ends melted

***Tiges d'agitation*** *en verre, à bouts rebrûlés*

| Length<br>*Longueur*<br>mm | Order No.<br>*N° de code* |
|---|---|
| 100 x 3 | **9.900.101** |
| 200 x 3 | **9.900.103** |
| 200 x 4 | **9.900.104** |
| 200 x 6 | **9.900.106** |
| 300 x 6 | **9.900.107** |
| 300 x 8 | **9.900.108** |



**9.900.1****

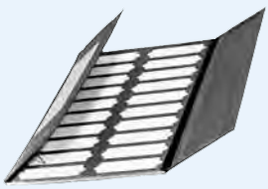



**9.900.2****

**Eyepieces,** acc. to Huygens

***Oculaires de Huygens*** *pour microscope*

| Magnification | Order No. |
|---|---|
| | *N° de code* |
| 5 x | 9.900.205 |
| 10 x | 9.900.210 |
| 15 x | 9.900.215 |

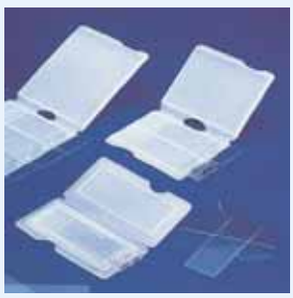


**9.900.6****

**Folder for micro slides,** made of strong cardboard

***Classeur de rangement*** *pour lames microscopiques, en carton fort*

| Type | Order No. |
|---|---|
| *Type* | *N° de code* |
| For 2 micro slides<br>*Pour 2 lames* | 9.900.602 |
| For 3 micro slides<br>*Pour 3 lames* | 9.900.603 |
| For 5 micro slides<br>*Pour 5 lames* | 9.900.605 |
| For 20 micro slides<br>*Pour 20 lames* | 9.900.620 |



**9.900.7****

**Storage- and dispatch boxes for slides,** plastic, transparent, for micro slides with lid

***Boites de rangement et pochettes d'envoi pour lames microscopiques,*** *en plastique transparent avec couvercle*

| Type | Order No. |
|---|---|
| *Type* | *N° de code* |
| For 1 micro slides<br>*Pour 1 lame* | 9.900.701 |
| For 2 micro slides<br>*Pour 2 lames* | 9.900.702 |
| For 5 micro slides<br>*Pour 5 lames* | 9.900.705 |



**9.900.8****

**Dropping pipettes (eye droppers),** made of glass

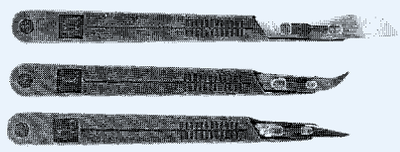
***Pipettes compte-gouttes,*** *en verre*

| Description | Ø x length | Order No. |
|---|---|---|
| *Description* | *Ø x Longueur* | *N° de code* |
| | mm | |
| Without bulb<br>*sans boule* | 7/8 x 80 | 9.900.801 |
| With rubber teat<br>*avec têtine* | – | 9.900.802 |
| With bulb<br>*avec boule* | 7/8 x 80 | 9.900.803 |
| With rubber teat<br>*avec têtine* | – | 9.900.804 |

**Disposable scalpels,** single sterile packed (10 pcs. per bag, 100 pcs. per standard box)

***Bistouris à usage unique,*** *emballage individuel stérile (10 par sachet, 100 en conditionnement standard)*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| No. 10 | **9.901.010** |
| No. 11 | **9.901.011** |
| No. 15 | **9.901.015** |
| No. 20 | **9.901.020** |
| No. 21 | **9.901.021** |
| No. 22 | **9.901.022** |
| No. 23 | **9.901.023** |
| No. 24 | **9.901.024** |



**9.901.0****

**Scalpel handles,** made of stainless steel for interchangeable blades

***Manches de bistouri,*** *en acier inoxydable pour lames interchangeables*

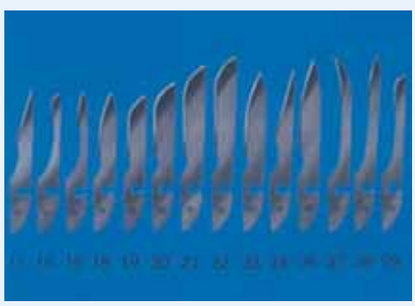
| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| No. 3 | **9.901.103** |
| No. 4 | **9.901.104** |



**Blades,** for scalpel handle with Order No. 9.901.103 and 9.901.104, pack of 100 pcs.

***Lames de bistouri,*** *pour N° de code 9.901.103 et 9.901.104, en paquet de 100 pcs.*

| Type<br>*Type* | Order No.<br>*N° de code* |
|---|---|
| No. 10 | **9.901.210** |
| No. 11 | **9.901.211** |
| No. 15 | **9.901.215** |
| No. 20 | **9.901.220** |
| No. 21 | **9.901.221** |
| No. 22 | **9.901.222** |
| No. 23 | **9.901.223** |
| No. 24 | **9.901.224** |





**Witeg WiseShake® SHO - Digital Orbital Shaker**

**With Programmable Digital Feedback Control System**

**10 - 300 rpm, CE-Certificate**

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