

Расходные материалы для хроматографии



О компании GL Sciences

Компания GL Sciences Inc. была основана в 1968 году в Японии и в настоящее время является одним из ведущих поставщиков расходных материалов для ВЭЖХ и ГХ во всём мире. С начала 1990-х годов GL Science активно экспортирует свою продукцию за пределы Японии. Их основные продукты под торговой маркой Inertsil стали признаны одними из самых лучших решений на рынке.

Сегодня GL Sciences, Inc. имеет штаб-квартиру и производство в Японии, офис в США и около 50 дистрибьюторов по всему миру. Компания имеет широкий ассортимент продуктов для ВЭЖХ, ГХ, МС, пробоподготовки и протомоики, которые делают GL Science одним из ведущих мировых поставщиков расходных материалов для лабораторий.

GL Sciences нацелена предоставить аналитической отрасли высококачественные продукты, постоянно расширяя свой портфель перспективными разработками



ISO14001 Сертификация



ISO9001 Сертификация



Штаб-квартира GL Sciences в Японии



R&D центр GL Sciences в Японии



Завод GL Sciences в Японии



R&D центр GL Science в Нидерландах



Офис GL Sciences в США

GL Sciences HPLC Columns Specification

	Column	Features	USP Code	Particle Size (µm)	Por e Size (nm)	Surfac e Area (m ² /g)
C18 Phases	InertSustain C18	First choice with ultra high inertness and high durability	L1	2, 3, 5, 10	10	350
	InertSustain AQ-C18	First choice for high polar compounds	L1, L96	1.9, 3, 5	10	350
	InertSustainSwift C18	First analysis with ultra high inertness and high durability	L1	1.9, 3, 5	20	200
	InertSustain AX-C18	Analysis of anionic highly polar compounds	L1, L78	3, 5	20	200
	InertCore Plus C18	Ideal for analyses requiring a high number of theoretical stages	L1	2.6	9	200
	Inertsil ODS-HL	Ultra high retentivity, High-density bonding of C18 phase	L1	3, 5	10	450
	Inertsil ODS-4	Ultra high inertness, High plate count, Medium retentivity	L1	2, 3, 5	10	450
	Inertsil ODS-4V	Inertsil ODS-4 Validated column	L1	3, 5	10	450
	Inertsil ODS-3	Strong retentivity, Lower column backpressure, Very inert	L1	2, 3, 4, 5, 10	10	450
	Inertsil ODS-3V	Inertsil ODS-3 Validated column	L1	3, 5	10	450
	Inertsil ODS-SP	Weak retentivity, for hydrophobic compounds	L1	3, 5	10	450
	Inertsil ODS-P	High steric selectivity	L1	3, 5	10	450
	Inertsil ODS-EP	A polar functional group embedded	L1	5	10	450
	Inertsil WP300 C18	Analysis of high molecules	L1	5	30	150
	Other Reversed Phases	Inertsil ODS-2	Ultra pure silica gel is used	L1	5	15
Inertsil ODS		Inertness 1st generation	L1	5, 10	10	350
InertSustain C8		First choice with ultra high inertness and high durability	L7	2, 3, 5	10	350
InertSustainSwift C8		High inertness and high durability C8 column	L7	1.9, 3, 5	20	200
Inertsil C8-4		Ultra high inertness, High plate count, Low retentivity	L7	2, 3, 5	10	450
Inertsil C8-3		Strong retentivity, Lower column backpressure, Very inert	L7	2, 3, 5, 10	10	450
Inertsil C8		Ultra pure silica gel is used	L7	5	15	320
Inertsil C4		Low retentivity	L26	5	15	320
Inertsil WP300 C8		Suitable for high molecules	L7	5	30	150
Inertsil WP300 C4			L26	5	30	150
InertSustain PFP		Extremely Strong retention of highly polar basic compounds.	L43	3, 5	10	350
InertSustain Phenylhexyl		Strong π-π interactions and hydrophobic interactions	L11	3, 5	10	350
InertSustain Phenyl		Extremely strong π-π interactions	L11	2, 3, 5	10	350
Inertsil Ph-3		Strong π-π interactions	L11	2, 3, 5	10	450
Inertsil Ph		High inertness, Weak π-π interactions	L11	5	15	320
InertSustain Cyano	Ultra inertness and can be used in reversed phase mode	L10	3, 5	10	350	
HILIC	InertSustain Amide	First choice for HILIC mode	L68	3, 5	10	350
	Inertsil HILIC	Separation of highly polar basic compounds	L20	3, 5	10	450
	InertSustain NH2	First choice for sugar analysis	L8	3, 5	10	350
	Inertsil NH2	Sugar analysis, High retentive in normal phase mode	L8	3, 5	10	450
Normal Phases	Inertsil Diol	First choice for normal phase mode, For SEC	L20	3, 5	10	450
	Inertsil SIL-100A	Ultra pure silica gel with 100Å pore size	L3	3, 5	10	450
	Inertsil SIL-150A	Ultra pure silica gel with 150Å pore size	L3	5	15	320
	Inertsil WP300 SIL	Ultra pure silica gel with 300Å pore size	L3	5	30	150
	Inertsil CN-3	Can be also used in reversed phase mode	L10	3, 5	10	450
SEC	Inertsil WP300 Diol	High molecule SEC, Can be also used in normal phase mode	L20, L33	5	30	150
Ion-Exchange	Inertsil AX	Anion-exchange column	—	5	10	450
	Inertsil CX	Cation-exchange column	L9	5	10	450
Application Specific Columns	InertSustainBio C18	Using for the peptides and protein with 200Å pore size	L1	1.9, 3	20	200
	MonoSelect C18 for HTS	Ideal for high-throughput screening	L1	monolith	12	340
	MonoTower C18	Cartridge type silica monolith	L1	monolith	11	200
	SYPRON AX-1	Ion exchange column for bromate analysis by LC/MS	—	5	—	—
	SYPRON AX-2	Ion exchange column for organic acid analysis by LC/MS	—	5	—	—
	InertSphere Sugar-1	Sugar analysis with ECD	—	5	—	—
	InertSphere Sugar-2	Sugar analysis with SEC and ligand exchange mode	L19	9	—	—
	Inertsil Acrolein C18	Acrolein analysis	L1	5	10	450
	Inertsil Sulfa C18	Sulfa analysis	L1	3, 5	10	450
	InertSphere FA-1	Povidone impurity analysis column	L17	9	—	—
	MonoCap Series	Monolithic silica capillary column				
	MonoSelect nPEC	Ideal for rapid evaluation of inclusion rate of low-molecular-weight compounds encapsulated in nanoparticles	—	monolith	11	110
	MonoSelect RP-mAb	Specializing in the analysis of monoclonal antibodies	—	monolith	60	50

GL Sciences HPLC Columns Specification

	Column	Carbon Loading (%)	End-Capping	Inertness	Recommended pH range
C18 Phases	InertSustain C18	14	Yes	★★★★★	1 - 10
	InertSustain AQ-C18	13	Yes	★★★★★	1 - 10
	InertSustainSwift C18	9	Yes	★★★★★	1 - 10
	InertSustain AX-C18	8	Yes	★★★★	1 - 9
	InertCore Plus C18	15	Yes	★★★★	1 - 10
	Inertsil ODS-HL	23	Yes	★★★★★	2 - 7.5
	Inertsil ODS-4	11	Yes	★★★★★	2 - 7.5
	Inertsil ODS-4V	11	Yes	★★★★★	2 - 7.5
	Inertsil ODS-3	15	Yes	★★★★	2 - 7.5
	Inertsil ODS-3V	15	Yes	★★★★	2 - 7.5
	Inertsil ODS-SP	8.5	Yes	★★★★	2 - 7.5
	Inertsil ODS-P	29	None	★★★	2 - 7.5
	Inertsil ODS-EP	9	None	★★★★	2 - 7.5
	Inertsil WP300 C18	9	Yes	★★★★	2 - 7.5
	Inertsil ODS-2	18.5	Yes	★★★★	2 - 7.5
Inertsil ODS	14	Yes	★★	2 - 7.5	
Other Reversed Phases	InertSustain C8	8	Yes	★★★★★	1 - 10
	InertSustainSwift C8	6	Yes	★★★★★	1 - 10
	Inertsil C8-4	5	Yes	★★★★★	2 - 7.5
	Inertsil C8-3	9	Yes	★★★★	2 - 7.5
	Inertsil C8	10.5	Yes	★★	2 - 7.5
	Inertsil C4	7.5	Yes	★★★★	2 - 7.5
	Inertsil WP300 C8	4	Yes	★★★★	2 - 7.5
	Inertsil WP300 C4	3	None	★★★★	2 - 7.5
	InertSustain PFP	10	Yes	★★★★★	2 - 7.5
	InertSustain Phenylhexyl	9	Yes	★★★★★	1 - 10
	InertSustain Phenyl	10	None	★★★★	2 - 7.5
	Inertsil Ph-3	9.5	None	★★★	2 - 7.5
	Inertsil Ph	10	Yes	★★★	2 - 7.5
	InertSustain Cyano	8	Yes	★★★★	2 - 7.5
HILIC	InertSustain Amide	15	None	—	2 - 8.5
	Inertsil HILIC	20	None	—	2 - 7.5
	InertSustain NH2	7	None	—	2 - 7.5
	Inertsil NH2	8	None	—	2 - 7.5
Normal Phases	Inertsil Diol	20	None	—	2 - 7.5
	Inertsil SIL-100A	—	None	—	2 - 7.5
	Inertsil SIL-150A	—	None	—	2 - 7.5
	Inertsil WP300 SIL	—	None	—	2 - 7.5
SEC	Inertsil CN-3	14	None	—	2 - 7.5
Ion-Exchange	Inertsil WP300 Diol	9	None	—	2 - 7.5
	Inertsil AX	17	None	—	2 - 7.5
Application Specific Columns	Inertsil CX	14	None	—	2 - 7.5
	InertSustainBio C18	9	Yes	★★★★★	1 - 10
	MonoSelect C18 for HTS	7	Yes	★★★★	2 - 7.5
	MonoTower C18	18	Yes	★★★★	2 - 7.5
	SYPRON AX-1	—	None	—	3 - 7
	SYPRON AX-2	—	None	—	
	InertSphere Sugar-1	—	None	—	2 - 14
	InertSphere Sugar-2	—	None	—	
	Inertsil Acrolein C18	9	Yes	★★★★	2 - 7.5
	Inertsil Sulfa C18	15	Yes	★★★★	2 - 7.5
	InertSphere FA-1	—	None	—	—
	MonoCap Series				
	MonoSelect nPEC	—	None	—	2 - 7.5
	MonoSelect RP-mAb	—	None	—	2 - 7.5

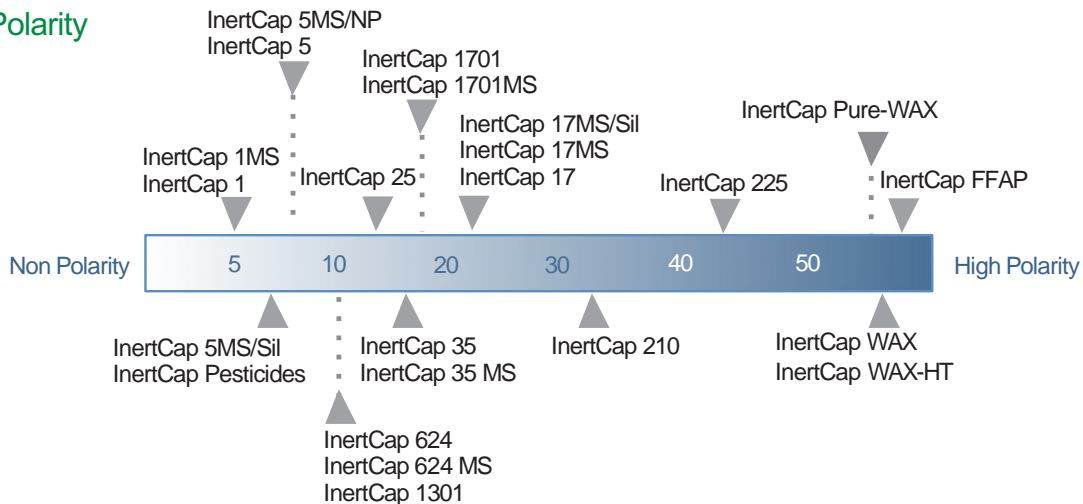
InertCap GC Series

Lineup

InertCap Product Line

Phase	Phase Composition	USP Code	Polarity	Application
InertCap 1MS	100 % Dimethylpolysiloxane	G1, G2, G38	None	General purpose, Hydrocarbons, PCBs, High Volatile solvents, Phenols
InertCap 1	100 % Dimethylpolysiloxane	G1, G2, G38	None	General purpose, Hydrocarbons, PCBs, High Volatile solvents, Phenols
InertCap 5MS/Sil	5 % Diphenyl (equiv.) - Dimethylpolysilphenylene siloxane	G27, G36	Low	General purpose, Halogenated compounds, Phenols, Pesticides, FAME
InertCap 5MS/NP	5 % Diphenyl 95 % Dimethylpolysiloxane	G27, G36	Low	General purpose, Halogenated compounds, Phenols, Pesticides, FAME
InertCap 5	5 % Diphenyl 95 % Dimethylpolysiloxane	G27, G36	Low	General purpose, Halogenated compounds, Phenols, Pesticides, FAME
InertCap 624MS	6 % Cyanopropylphenyl 94 % Dimethylpolysiloxane	G43	Medium	Residual solvents of Pharmaceuticals, VOCs, Alcohols
InertCap 624	6 % Cyanopropylphenyl 94 % Dimethylpolysiloxane	G43	Medium	VOCs, Alcohols
InertCap 1301	6 % Cyanopropylphenyl 94 % Dimethylpolysiloxane	G43	Medium	Pesticides, PCBs, Alcohols, VOCs
InertCap 25	25 % Diphenyl 75 % Dimethylpolysiloxane	G28	Medium	Pesticides, PCBs, Alcohols, VOCs
InertCap 35MS	35 % Diphenyl 65 % Dimethylpolysiloxane	G42	Medium	Pesticides, Pharmaceuticals, Polycyclic aromatics
InertCap 35	35 % Diphenyl 65 % Dimethylpolysiloxane	G42	Medium	Pesticides, Pharmaceuticals
InertCap 1701MS	14 % Cyanopropylphenyl 86 % Dimethylpolysiloxane	G46	Medium	Pesticides, Sugar, TMS derivatives, Drugs, Alcohols. Steroids
InertCap 1701	14 % Cyanopropylphenyl 86 % Dimethylpolysiloxane	G46	Medium	Pesticides, Sugar, TMS derivatives, Drugs, Alcohols. Steroids
InertCap 17MS/Sil	50 % Diphenyl(equiv.) - 50 % Dimethylsilphenylene Siloxane	G3	Medium	Pesticides
InertCap 17MS	50 % Diphenyl 50 % Dimethylpolysiloxane	G3	Medium	Steroids, Drugs, Pesticides
InertCap 17	50 % Diphenyl 50 % Dimethylpolysiloxane	G3	Medium	Steroids, Drugs, Pesticides
InertCap 210	50 % Trifluoropropyl 50 % Methylpolysiloxane	G6	Medium	Organophosphorus acids
InertCap 225	50 % Cyanopropylmethyl 50 % Phenylmethylpolysiloxane	G7, G19	Medium to high	FAME
InertCap Pure-WAX	Polyethylene Glycol	G14, G15, G16, G20, G39, G47	High	General purpose, Esters, Perfumes, Alcohols, Aromatic hydrocarbons, FAME
InertCap WAX	Polyethylene Glycol	G14, G15, G16, G20, G39, G47	High	General purpose, Esters, Perfumes, Alcohols, Aromatic hydrocarbons, FAME
InertCap WAX-HT	Polyethylene Glycol	G14, G15, G16, G20, G39, G47	High	General purpose, Esters, Perfumes, Alcohols, Aromatic hydrocarbons, FAME
InertCap FFAP	Nitroterephthalic acid modified Polyethylene Glycol	G25, G35	High	FAME, Free fatty acids, Organic acids, Alcohols, Aldehydes

Columns Polarity



Column Cross Reference

Phase	Phase Composition	Agilent	Agilent (Varian)	Agilent (Chrompack)	Restek	Merck (Supelco)
InertCap 1MS	100 % Dimethylpolysiloxane	DB-1 ms HP-1 ms	VF-1 ms	CP-Sil 5 CB Low Bleed/MS	Rxi-1MS	Equity-1
InertCap 1	100 % Dimethylpolysiloxane	DB-1, HP-1 ULTRA-1	-	CP-Sil 5 CB	Rtx-1	SPB-1
InertCap 5MS/Sil	5 % Diphenyl (equiv.) - Dimethylpolysilphenylene siloxane	DB-5 ms	VF-5 ms	CP-Sil 8 CB Low Bleed/MS	Rxi-5Sil MS	SLB-5 ms
InertCap 5MS/NP	5 % Diphenyl 95 % Dimethylpolysiloxane	HP-5 ms	-	-	Rxi-5MS Rtx-5MS	Equity-5
InertCap 5	5 % Diphenyl 95 % Dimethylpolysiloxane	DB-5, HP-5 ULTRA-2	-	CP-Sil 8 CB	Rtx-5	SPB-5
InertCap 624MS	6 % Cyanopropylphenyl 94 % Dimethylpolysiloxane	-	VF-624 ms	-	Rxi-624Sil MS	-
InertCap 624	6 % Cyanopropylphenyl 94 % Dimethylpolysiloxane	DB-624 HP-VOC	-	CP-Select 624 CB	Rtx-624	-
InertCap 1301	6 % Cyanopropylphenyl 94 % Dimethylpolysiloxane	DB-1301 HP-1301	VF-1301 ms	CP-1301	Rtx-1301	SPB-1301
InertCap 25	25 % Diphenyl 75 % Dimethylpolysiloxane	-	-	-	-	-
InertCap 35MS	35 % Diphenyl (equiv.) 65 % Dimethylpolysiloxane	DB-35ms UI	VF-35 ms	-	Rxi-35Sil MS	-
InertCap 35	35 % Diphenyl 65 % Dimethylpolysiloxane	DB-35 HP-35	-	-	Rtx-35	SPB-35
InertCap 1701MS	14 % Cyanopropylphenyl 86 % Dimethylpolysiloxane	-	VF-1701 ms	-	-	-
InertCap 1701	14 % Cyanopropylphenyl 86 % Dimethylpolysiloxane	DB-1701	-	CP-Sil 19 CB	Rtx-1701	SPB-1701
InertCap 17MS/Sil	50 % Diphenyl (equiv.) - 50 % Dimethylsilphenylene Siloxane	DB-17 ms	VF-17 ms	-	Rxi-17Sil MS	-
InertCap 17MS	50 % Diphenyl 50 % Dimethylpolysiloxane	DB-17 ms	VF-17 ms	CP-Sil 24 CB Low Bleed/MS	Rxi-17Sil MS	-
InertCap 17	50 % Diphenyl 50 % Dimethylpolysiloxane	DB-17 HP-50+	-	CP-Sil 24 CB	Rxi-17 Rtx-50	SPB-50
InertCap 210	50 % Trifluoropropyl 50 % Methylpolysiloxane	DB-210 DB-200	VF-200 ms	-	Rtx-200	-
InertCap 225	50 % Cyanopropylmethyl 50 % Phenylmethylpolysiloxane	DB-225	-	CP-Sil 43 CB	Rtx-225	-
InertCap Pure-WAX	Polyethylene Glycol (PEG)	DB-WAX HP-INNOWax	-	CP-WAX 52 CB	Rtx-Wax Stabilwax	SUPELCO WAX-10
InertCap WAX	Polyethylene Glycol (PEG)	DB-WAX HP-INNOWax	-	CP-WAX 52 CB	Rtx-Wax Stabilwax	SUPELCO WAX-10
InertCap WAX-HT	Polyethylene Glycol (PEG)	DB-WAXetr	VF-WAXms	CP-WAX 52 CB	-	SUPELCO WAX-10
InertCap FFAP	Nitroterephthalic acid modified Polyethylene Glycol	DB-FFAP HP-FFAP	-	CP-WAX 58 CB	-	Stabilwax-DA
InertCap Pesticides	5 % Diphenyl (equiv.) - Dimethylpolysilphenylene siloxane	-	-	-	-	-
InertCap AQUATIC	25 % Diphenyl 75 % Dimethylpolysiloxane	-	-	-	-	-
InertCap AQUATIC-2	25 % Diphenyl 75 % Dimethylpolysiloxane	-	-	-	-	-
InertCap for Amines	GL Sciences Original	-	-	-	-	-
InertCap CHIRAMIX	GL Sciences Original	-	-	-	-	-

Application Specific Columns

Phase	Phase Composition	USP Code	Polarity	Application
InertCap Pesticides	5 % Diphenyl (equiv.) - Dimethylpolysilphenylene siloxane	G27	Low	Multi component screening of pesticides
InertCap for Amines	GL Sciences original	-	-	Amines, Alcohols
InertCap CHIRAMIX	GL Sciences original	-	-	Optical isomers
InertCap AQUATIC	25 % Phenyl 75 % Methylpolysiloxane	G28	Medium	VOCs, 1,4-dioxane, Organic solvents
InertCap AQUATIC-2	25 % Phenyl 75 % Methylpolysiloxane	G28	Medium	VOCs, Organic solvents

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Tubing
Accessories for Gas Tubing
Gas Filters

CELLS

Cell's Features
Cell Materials and Features
Cells

VIALS

Vials for Autosamplers
GL Sciences' Vials for Autosamplers

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