

STANDARD AND VOID-SEALING HPLC COLUMNS

- Spherical and irregular silicas
- Void sealing hardware features:
 - Reusable end fittings
 - Built-in void compensator

Whatman® is known for its high quality HPLC columns and silica materials. By using tightly controlled QC procedures, Whatman materials have excellent reproducibility. Columns are available in microbore, analytical and preparative dimensions to suit the needs of many chromatographers.

The Whatman Void Sealing (WVS™) System has a threaded disposable column and reusable end fittings. This system uses a piston-like plunger which can be compressed onto the packed bed to remove voids and restore column performance. Both the PartiSphere™ and Partisil™ materials are available in the WVS hardware.

Partisil® and PartiSphere® are available in a wide variety of bonded phases. PartiSphere offers selectivity similar to Partisil but with the advantages of spherical materials. PartiSphere phases are available on 5 µm silica while Partisil phases are available on both 5 and 10 µm silicas.

Material Characteristics

Packing Material	Particle Shape/Size (µm)	Pore Size (Å)	Surface Area (m ² /g)	Carbon Load (%)	Calculated Bonded Phase Coverage (µmole/m ²)	End Capping
Partisil Silica	Irreg. 5, 10	85	350	0	0	No
Partisil C8	Irreg. 5, 10	85	350	8.5	2.33	Yes
Partisil ODS	Irreg. 10	85	350	5	0.63	o
Partisil ODS-2	Irreg. 5	85	350	16	2.43	No
Partisil ODS-3	Irreg. 5, 10	85	350	10.5	1.45	Yes
Partisil PAC	Irreg. 10	85	350	0.85(N)	—	No
Partisil SAX	Irreg. 10	85	350	0.85(N+R3)	—	No
Partisil SCX	Irreg. 5, 10	85	350	0.40(S)	—	No
PartiSphere Silica	Spher. 5	120	160	0	0	No
PartiSphere C8	Spher. 5	120	160	6	3.44	Yes
PartiSphere C18	Spher. 5	120	160	10	3.01	Yes
PartiSphere SAX	Spher. 5	120	160	0.85(N+R3)	—	No
PartiSphere SCX	Spher. 5	120	160	0.40(S)	—	No
PartiSphere WAX	Spher. 5	120	160	0.50(N)	—	No
PartiSphere WCX	Spher. 5	120	160	0.7	—	No



See p. 191 for Phenomenex packed Partisil HPLC columns

ORDERING INFORMATION

Whatman Standard HPLC (WCS)² Columns

Part No.	Mfr. No.	Description	Column Type	Size (mm)	Price
CH0-2136	4215-001	Partisil 5 µm Silica	Analytical	250 x 4.6	
CH0-2142	4222-225	Partisil 5 µm ODS-3	RAC II	100 x 4.6	
CH0-2143	4238-001	Partisil 5 µm ODS-3	Analytical	250 x 4.6	
CH0-2145	4222-232	Partisil 5 µm C8	RAC II	100 x 4.6	
CH0-2146	4239-001	Partisil 5 µm C8	Analytical	250 x 4.6	
CH0-2154	4222-228	Partisil 5 µm SCX	RAC II	100 x 4.6	
CH0-2159	4223-001	Partisil 10 µm ODS	Analytical	250 x 4.6	
CH0-2161	4228-001	Partisil 10 µm ODS-3	Analytical	250 x 4.6	
CH0-2163	4229-001	Partisil 10 µm C8	Analytical	250 x 4.6	
CH0-2165	4225-001	Partisil 10 µm PAC	Analytical	250 x 4.6	
CH0-2168	4226-001	Partisil 10 µm SAX	Analytical	250 x 4.6	
CH0-2169	4250-001	Partisil 10 µm SAX	Analytical	250 x 4.6	
CH0-2170	4227-001	Partisil 10 µm SCX	Analytical (w/Solvecon Precolumn)	250 x 4.6	

² WCS = Whatman Compression Screw.

ORDERING INFORMATION (CONTINUED)

Standard Semi-Preparative and Preparative Columns

Part No.	Mfr. No.	Description	Column Type	Size (mm)	Price
CHO-2217	4230-225	Partisil 10 µm ODS-3	Magnum 9	500 x 9.4	

WVS¹ Columns*

Part No.	Mfr. No.	Description	Size (mm)	Price
CHO-2222	4681-0502	Partisil 5 µm ODS-3	125 x 4.6	
CHO-2223	4681-1502	Partisil 5 µm ODS-3	250 x 4.6	
CHO-2229	4681-1507	Partisil 5 µm SCX	250 x 4.6	
CHO-2240	4682-1505	Partisil 10 µm SAX	250 x 4.6	
CHO-2246	4621-0502	PartiSphere 5 µm C18	125 x 4.6	
CHO-2248	4621-0503	PartiSphere 5 µm C8	125 x 4.6	
CHO-2252	4621-0505	PartiSphere 5 µm SAX	125 x 4.6	
CHO-2253	4621-1505	PartiSphere 5 µm SAX	250 x 4.6	
CHO-2256	4621-0507	PartiSphere 5 µm SCX	125 x 4.6	
CHO-2257	4621-1507	PartiSphere 5 µm SCX	250 x 4.6	

*Replacement column only, end-fittings sold separately.

¹ WVS™ = Whatman Void Sealing.

WVS¹ Hardware

Part No.	Mfr. No.	Description	Price
CHO-2299	4631-1001	WVS Column End-fittings 1 pair, 4.6 mm	

¹ WVS™ = Whatman Void Sealing.



All other Whatman columns and accessories not listed are available upon request.

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