

Silica: Spherical Shaped, Thermally Treated Sol-gel- **Type B Silica**; washed with Acid for low metals content, < 10ppm.

ADVANTAGES: Better Lot to Lot Consistency, More uniform bonding, improved peak shapes for basic analytes, isocratic mobile phases more effective, less need for mobile phase additives.



Cogent™ Bonded Phases:

Bonded Phase	Pore Size (Å)	Surface Area (m ² /gm)	Pore Volume (ml/gm)	Particle Size (µm)	End-Capping	Carbon Load (%)	pH Range	Max Temp (°C)
Cogent HPS Silica	120	300	0,99	5	Not	>0.1	2.0 – 6.0	60
Cogent HyperSphere™ Silica	120	170	0.65	3 & 5	Not	0	2.0 – 8.0	60
Cogent Simulare™ Silica	80	-	-	5	-	-	-	60
Cogent MS-MicroBee™ Silica	125	-	-	10	-	-	-	60
Cogent HPS C18	120	300	0.99	5	Fully	18.5	2.0–8.0	60
Cogent hQ C18	120	300	0.99	5	Not	18.0	2.0–6.0	60
Cogent e-Columns C18	100	350	0.99	5	Fully	17.0	2.0–7.0	60
Cogent HyperSphere™ C18	120	170	0.65	3 & 5	Yes	10	2.0 – 8.0	60
Cogent Simulare™ ODS1	80	220	0.5	5	Not	6.20	2.0 – 8.0	60
Cogent Simulare™ ODS2	80	220	0.5	5	Yes	11.50	2.0 – 8.0	60
Cogent MS-MicroBee™ C18	125	-	-	10	-	10	-	60
Cogent HPS C8	120	300	0.99	5	Fully	11.5	2.0–8.0	60
Cogent hQ C8	120	300	0.99	5	Not	11.5	2.0–6.0	60
Cogent e-Columns C8	100	350	0.99	5	Fully	10.0	2.0–7.0	60
Cogent HyperSphere™ C8	120	170	0.65	3 & 5	Yes	7	2.0 – 8.0	60
Cogent Simulare™ C8	80	220	0.5	5	Yes	5.75	2.0 – 8.0	60
Cogent MS-MicroBee™ C8	125	-	-	10	-	7	-	60



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Cogent HPS Amino	120	300	0.99	5	Not	4.1	2.0–7.0	60
Cogent HyperSphere™ Amino	120	170	0.65	5	Not	10	2.0 – 8.0	60
Cogent Simulare™ Amino	80	220	0.5	5	Not	1.90	2.0 – 8.0	60
Cogent MS-MicroBee™ Amino	125	-	-	10	-	3,5	-	60
Cogent HPS Cyano	120	300	0.99	5	Fully	7.5	2.0–7.0	60
Cogent HyperSphere™ Cyano	120	170	0.65	3 & 5	Not	4	2.0 – 8.0	60
Cogent Simulare™ Cyano	80	220	0.5	5	Not	3.10	2.0 – 8.0	60
Cogent MS-MicroBee™ Cyano	125	-	-	10	-	6	-	60
Cogent Phenyl	120	300	0.99	5	Not	12.0	2.0–8.0	60
Cogent HyperSphere™ Phenyl	120	170	0.65	3 & 5	Not	5	2.0 – 8.0	60
Cogent Simulare™ Phenyl	80	220	0.5	5	Not	2.50	2.0 – 8.0	60
Cogent MS-MicroBee™ Phenyl	125	-	-	10	-	8	-	60
Cogent UPHOLDC27	120	300	0.99	5	Fully	17.0	2.0–8.0	60
Cogent UPHOLDC30	120	300	0.99	5	Fully	-	2.0–8.0	60
Cogent F5	60	-	-	5	-	16	-	-
Cogent EE™	5 nm	-	-	5, 10 & 20	-	-	3.0–7.0	30