

Spherisorb Columns

Waters Spherisorb™ Columns are available in a wide range of particle sizes (3, 5, and 10 µm) and bonded phases. Their high quality bonded phases afford many different and unique separation selectivities.

Analytical columns are supplied with icommon, Parker-style, column end fittings.



Column Characteristics

	ODS2 (C ₁₈), 80 Å	ODS1 (C ₁₈), 80 Å	ODSB (C ₁₈), 80 Å	C ₈ , 80 Å	C ₈ , 80 Å	C ₁₈ , 80 Å
	HPLC: 3, 5, 10 µm	HPLC: 3, 5, 10 µm	HPLC: 5 µm	HPLC: 3, 5, 10 µm	HPLC: 3, 5, 10 µm	HPLC: 3, 5, 10 µm
Ligand Benefit	General purpose, balanced retention for acids, bases, and neutrals	General purpose, balanced retention for acids, bases, and neutrals	General purpose, balanced retention for acids, bases, and neutrals	Good retention for strong hydrophobic compounds	Increased retention for strong hydrophobic compounds	Superior retention for very strong hydrophobic compounds
Particle/Ligand						
Ligand Density*	3.0 µmol/m ²	1.5 µmol/m ²	3.0 µmol/m ²	3.1 µmol/m ²	3.4 µmol/m ²	3.0 µmol/m ²
Carbon Load*	11.5%	6.2%	11.5%	5.8%	4.7%	2.2%
Endcapped	Yes	No	No	Yes	Yes	No
USP Class No.	L1	L1	L1	L7	L15	L13
Surface Area*	220 m ² /g	220 m ² /g	220 m ² /g	220 m ² /g	220 m ² /g	220 m ² /g

*Expected or approximate value.

	NH ₂ (Amino), 80 Å	Phenyl, 80 Å	CN (Nitrile), 80 Å	OD/CN, 80 Å	W (Silica), 80 Å	SCX, 80 Å	SAX, 80 Å
	HPLC: 3, 5, 10 µm	HPLC: 3, 5, 10 µm	HPLC: 3, 5, 10 µm	HPLC: 5 µm	HPLC: 3, 5, 10 µm	HPLC: 5, 10 µm	HPLC: 5, 10 µm
Ligand Benefit	Alternate retention for polar compounds	Better retention for aromatic compounds	Alternate selectivity for polar compounds	Alternate selectivity for polar compounds	No ligand, for use in cation exchange mode for retention of large highly polar and/or charged compounds	No ligand, for general purpose separation of polar compounds in normal phase mode	No ligand, for use in anion exchange mode for retention of large highly polar and/or charged compounds
Particle/Ligand							
Ligand Density*	2.6 µmol/m ²	1.7 µmol/m ²	3.3 µmol/m ²	1.2 µmol/m ²	—	—	—
Carbon Load*	1.9%	2.5%	3.1%	5%	N/A	4%	4%
Endcapped	No	No	No	Yes	No	No	No
USP Class No.	L8	L11	L10	—	L3	L9	L14
Surface Area*	220 m ² /g	220 m ² /g	220 m ² /g	220 m ² /g	220 m ² /g	220 m ² /g	220 m ² /g

*Expected or approximate value.