



# HICHROM

Chromatography Columns and Supplies

## LC COLUMNS Waters Spherisorb

Catalogue 9

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# WATERS

## Waters Spherisorb®

- Spherical porous silica
- 3, 5 and 10µm particle sizes
- Widely referenced HPLC columns
- Hichrom high efficiency

Spherisorb® is a classical 80Å pore size silica manufactured by the Waters Corporation. Waters Spherisorb HPLC columns are widely referenced in the scientific literature.

### Spherisorb Phases

Spherisorb Phase	Functional Group	Endcapped	Particle Size (µm)	Pore Size (Å)	Surface Area (m <sup>2</sup> /g)	Carbon Load (%)
Silica	-	-	3, 5, 10	80	220	-
C1	Methyl	No	3, 5	80	220	2.2
C6	Hexyl	Yes	3, 5	80	220	4.7
C8	Octyl	Yes	3, 5, 10	80	220	5.8
ODS1	Octadecyl	No	3, 5, 10	80	220	6.2
ODS2	Octadecyl	Yes	3, 5, 10	80	220	11.5
ODSB	Octadecyl	Yes	5	80	220	11.5
Phenyl	Phenyl	No	3, 5	80	220	2.5
NH2	Amino	No	3, 5, 10	80	220	1.9
CN	Cyano	No	3, 5	80	220	3.1
SAX	Tetramethyl Ammonium	No	5	80	220	4
SCX	Sulphonic Acid	No	5,10	80	220	4

### Ordering Information – Waters Spherisorb - Hichrom Manufactured Columns

#### Microbore (1.0mm i.d.) Columns

Please contact Hichrom for further details of 1.0mm i.d. Waters Spherisorb columns

#### Microbore (2.1mm i.d.) Columns

Spherisorb Phase	Column Dimensions <sup>1</sup> (mm)				Guard Cartridges <sup>2</sup> (For 2.1mm i.d. Columns)
	50 x 2.1	100 x 2.1	150 x 2.1	250 x 2.1	
<b>3µm</b>					<b>(5/pk)<sup>3</sup></b>
Silica	S3W-50AM	S3W-100AM	S3W-150AM	S3W-250AM	S3W-10CM5
C1	S3C1-50AM	S3C1-100AM	S3C1-150AM	S3C1-250AM	S3C1-10CM5
C6	S3C6-50AM	S3C6-100AM	S3C6-150AM	S3C6-250AM	S3C6-10CM5
C8	S3C8-50AM	S3C8-100AM	S3C8-150AM	S3C8-250AM	S3C8-10CM5
ODS1	S3ODS1-50AM	S3ODS1-100AM	S3ODS1-150AM	S3ODS1-250AM	S3ODS1-10CM5
ODS2	S3ODS2-50AM	S3ODS2-100AM	S3ODS2-150AM	S3ODS2-250AM	S3ODS2-10CM5
Phenyl	S3P-50AM	S3P-100AM	S3P-150AM	S3P-250AM	S3P-10CM5
NH2	S3NH-50AM	S3NH-100AM	S3NH-150AM	S3NH-250AM	S3NH-10CM5
CN	S3CN-50AM	S3CN-100AM	S3CN-150AM	S3CN-250AM	S3CN-10CM5
<b>5µm</b>					<b>(5/pk)<sup>3</sup></b>
Silica	S5W-50AM	S5W-100AM	S5W-150AM	S5W-250AM	S5W-10CM5
C1	S5C1-50AM	S5C1-100AM	S5C1-150AM	S5C1-250AM	S5C1-10CM5
C6	S5C6-50AM	S5C6-100AM	S5C6-150AM	S5C6-250AM	S5C6-10CM5
C8	S5C8-50AM	S5C8-100AM	S5C8-150AM	S5C8-250AM	S5C8-10CM5
ODS1	S5ODS1-50AM	S5ODS1-100AM	S5ODS1-150AM	S5ODS1-250AM	S5ODS1-10CM5
ODS2	S5ODS2-50AM	S5ODS2-100AM	S5ODS2-150AM	S5ODS2-250AM	S5ODS2-10CM5
Phenyl	S5P-50AM	S5P-100AM	S5P-150AM	S5P-250AM	S5P-10CM5
NH2	S5NH-50AM	S5NH-100AM	S5NH-150AM	S5NH-250AM	S5NH-10CM5
CN	S5CN-50AM	S5CN-100AM	S5CN-150AM	S5CN-250AM	S5CN-10CM5
					<b>(5/pk)<sup>3</sup></b>
ODSB	S5ODSB-50AM	S5ODSB-100AM	S5ODSB-150AM	S5ODSB-250AM	S5ODSB-10CM5
SAX	S5SAX-50AM	S5SAX-100AM	S5SAX-150AM	S5SAX-250AM	S5SAX-10CM5
SCX	S5SCX-50AM	S5SCX-100AM	S5SCX-150AM	S5SCX-250AM	S5SCX-10CM5

<sup>1</sup> Other column dimensions available – please enquire

<sup>2</sup> Use with free-standing holder HI-161

and column coupler HI-081

– see p. 24

<sup>3</sup> Starter kits

also available – see p. 25

**Ordering Information – Waters Spherisorb® - Hichrom Manufactured Columns (continued)**
**Medium Bore (3.2mm i.d.) Columns**

Spherisorb Phase	Column Dimensions <sup>1</sup> (mm)				Guard Cartridges <sup>2</sup> (For 3.2mm i.d. Columns)
	50 x 3.2	100 x 3.2	150 x 3.2	250 x 3.2	
<b>3µm</b>					<b>(5/pk)<sup>3</sup></b>
Silica	S3W-50AS	S3W-100AS	S3W-150AS	S3W-250AS	S3W-10C5
C1	S3C1-50AS	S3C1-100AS	S3C1-150AS	S3C1-250AS	S3C1-10C5
C6	S3C6-50AS	S3C6-100AS	S3C6-150AS	S3C6-250AS	S3C6-10C5
C8	S3C8-50AS	S3C8-100AS	S3C8-150AS	S3C8-250AS	S3C8-10C5
ODS1	S3ODS1-50AS	S3ODS1-100AS	S3ODS1-150AS	S3ODS1-250AS	S3ODS1-10C5
ODS2	S3ODS2-50AS	S3ODS2-100AS	S3ODS2-150AS	S3ODS2-250AS	S3ODS2-10C5
Phenyl	S3P-50AS	S3P-100AS	S3P-150AS	S3P-250AS	S3P-10C5
NH2	S3NH-50AS	S3NH-100AS	S3NH-150AS	S3NH-250AS	S3NH-10C5
CN	S3CN-50AS	S3CN-100AS	S3CN-150AS	S3CN-250AS	S3CN-10C5
<b>5µm</b>					<b>(5/pk)<sup>3</sup></b>
Silica	S5W-50AS	S5W-100AS	S5W-150AS	S5W-250AS	S5W-10C5
C1	S5C1-50AS	S5C1-100AS	S5C1-150AS	S5C1-250AS	S5C1-10C5
C6	S5C6-50AS	S5C6-100AS	S5C6-150AS	S5C6-250AS	S5C6-10C5
C8	S5C8-50AS	S5C8-100AS	S5C8-150AS	S5C8-250AS	S5C8-10C5
ODS1	S5ODS1-50AS	S5ODS1-100AS	S5ODS1-150AS	S5ODS1-250AS	S5ODS1-10C5
ODS2	S5ODS2-50AS	S5ODS2-100AS	S5ODS2-150AS	S5ODS2-250AS	S5ODS2-10C5
Phenyl	S5P-50AS	S5P-100AS	S5P-150AS	S5P-250AS	S5P-10C5
NH2	S5NH-50AS	S5NH-100AS	S5NH-150AS	S5NH-250AS	S5NH-10C5
CN	S5CN-50AS	S5CN-100AS	S5CN-150AS	S5CN-250AS	S5CN-10C5
					<b>(5/pk)<sup>3</sup></b>
ODSB	S5ODSB-50AS	S5ODSB-100AS	S5ODSB-150AS	S5ODSB-250AS	S5ODSB-10C5
SAX	S5SAX-50AS	S5SAX-100AS	S5SAX-150AS	S5SAX-250AS	S5SAX-10C5
SCX	S5SCX-50AS	S5SCX-100AS	S5SCX-150AS	S5SCX-250AS	S5SCX-10C5

**Analytical (4.6mm i.d.) Columns** (please enquire for 4.0mm i.d. columns)

Spherisorb Phase	Column Dimensions <sup>1</sup> (mm)				Guard Cartridges <sup>2</sup> (For 4.6mm i.d. Columns)
	50 x 4.6	100 x 4.6	150 x 4.6	250 x 4.6	
<b>3µm</b>					<b>(5/pk)<sup>3</sup></b>
Silica	S3W-50A	S3W-100A	S3W-150A	S3W-250A	S3W-10C5
C1	S3C1-50A	S3C1-100A	S3C1-150A	S3C1-250A	S3C1-10C5
C6	S3C6-50A	S3C6-100A	S3C6-150A	S3C6-250A	S3C6-10C5
C8	S3C8-50A	S3C8-100A	S3C8-150A	S3C8-250A	S3C8-10C5
ODS1	S3ODS1-50A	S3ODS1-100A	S3ODS1-150A	S3ODS1-250A	S3ODS1-10C5
ODS2	S3ODS2-50A	S3ODS2-100A	S3ODS2-150A	S3ODS2-250A	S3ODS2-10C5
Phenyl	S3P-50A	S3P-100A	S3P-150A	S3P-250A	S3P-10C5
NH2	S3NH-50A	S3NH-100A	S3NH-150A	S3NH-250A	S3NH-10C5
CN	S3CN-50A	S3CN-100A	S3CN-150A	S3CN-250A	S3CN-10C5
<b>5µm</b>					<b>(5/pk)<sup>3</sup></b>
Silica	S5W-50A	S5W-100A	S5W-150A	S5W-250A	S5W-10C5
C1	S5C1-50A	S5C1-100A	S5C1-150A	S5C1-250A	S5C1-10C5
C6	S5C6-50A	S5C6-100A	S5C6-150A	S5C6-250A	S5C6-10C5
C8	S5C8-50A	S5C8-100A	S5C8-150A	S5C8-250A	S5C8-10C5
ODS1	S5ODS1-50A	S5ODS1-100A	S5ODS1-150A	S5ODS1-250A	S5ODS1-10C5
ODS2	S5ODS2-50A	S5ODS2-100A	S5ODS2-150A	S5ODS2-250A	S5ODS2-10C5
Phenyl	S5P-50A	S5P-100A	S5P-150A	S5P-250A	S5P-10C5
NH2	S5NH-50A	S5NH-100A	S5NH-150A	S5NH-250A	S5NH-10C5
CN	S5CN-50A	S5CN-100A	S5CN-150A	S5CN-250A	S5CN-10C5
					<b>(5/pk)<sup>3</sup></b>
ODSB	S5ODSB-50A	S5ODSB-100A	S5ODSB-150A	S5ODSB-250A	S5ODSB-10C5
SAX	S5SAX-50A	S5SAX-100A	S5SAX-150A	S5SAX-250A	S5SAX-10C5
SCX	S5SCX-50A	S5SCX-100A	S5SCX-150A	S5SCX-250A	S5SCX-10C5
<b>10µm</b>					<b>(5/pk)<sup>3</sup></b>
Silica	S10W-50A	S10W-100A	S10W-150A	S10W-250A	S10W-10C5
C8	S10C8-50A	S10C8-100A	S10C8-150A	S10C8-250A	S10C8-10C5
ODS1	S10ODS1-50A	S10ODS1-100A	S10ODS1-150A	S10ODS1-250A	S10ODS1-10C5
ODS2	S10ODS2-50A	S10ODS2-100A	S10ODS2-150A	S10ODS2-250A	S10ODS2-10C5
NH2	S10NH-50A	S10NH-100A	S10NH-150A	S10NH-250A	S10NH-10C5
					<b>(5/pk)<sup>3</sup></b>
SCX	S10SCX-50A	S10SCX-100A	S10SCX-150A	S10SCX-250A	S10SCX-10C5

<sup>1</sup> Other column dimensions available – please enquire

<sup>2</sup> Use with free-standing holder HI-161

and column coupler HI-081

– see p. 24

<sup>3</sup> Starter kits

also available – see p. 25

**Semi-Preparative and Preparative (7.75 – 21.2mm i.d.) Columns**

Please contact Hichrom for further details of 7.75 – 21.2mm i.d. Waters Spherisorb columns