

## Guaranteed Replacement to Spherisorb®

If SphereClone analytical columns do not provide at least an equivalent separation as compared to Spherisorb columns of the same phase, particle size and dimensions, send in your comparative data within 45 days and keep the SphereClone column for FREE.

- Highly reproducible
- Long column life
- Mimics performance of Waters® Spherisorb®
- Economically priced

Phenomenex SphereClone columns have been developed to provide chromatographic behavior that mimics that of Waters Spherisorb columns. The following page illustrates an example. For additional comparative applications, please contact your local Phenomenex representative.

### SphereClone™

SEM of Base Silica

Surface  
15,000x Magnification

Physical Mass  
Distribution & Shape  
4,000x Magnification

## VS.

Material Characteristics

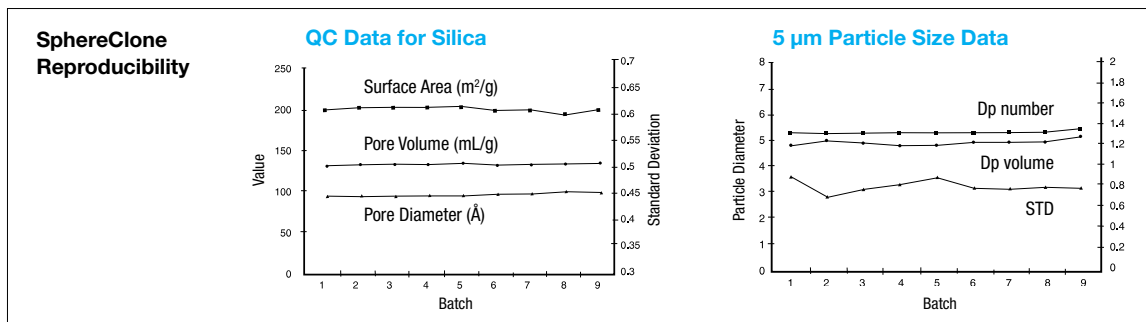
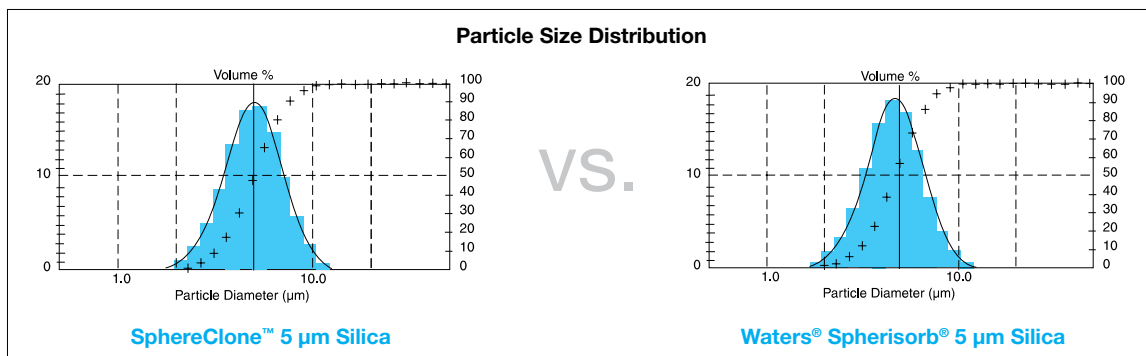
SphereClone™	vs.	Spherisorb®†
3, 5, 10 µm	<b>Particle Size</b>	3, 5, 10 µm
80 Å	<b>Pore Size</b>	80 Å
200 m <sup>2</sup> /g	<b>Surface Area</b>	200 m <sup>2</sup> /g
<b>Carbon Load</b>		
—	Silica	—
6 %	C6	6 %
6 %	C8	6 %
7 %	ODS(1)	6.2 %
12 %	ODS(2)	12 %
2 %	NH <sub>2</sub>	2 %
3.0 %	Phenyl	3.0 %
—	SCX	—

### Spherisorb®†

SEM of Base Silica

Surface  
15,000x Magnification

Physical Mass  
Distribution & Shape  
4,000x Magnification



# SphereClone™

## Ordering Information

SecurityGuard™ Analytical Cartridges require holder, Part No.: KJO-4282

3 µm Columns (mm)							SecurityGuard™ Cartridges (mm)	
Phases	150 x 2.0	100 x 3.2	150 x 3.2	50 x 4.6	100 x 4.6	150 x 4.6	4 x 2.0	4 x 3.0
							/10pk	/10pk
Silica	—	—	—	—	00D-4130-E0	00F-4130-E0	AJO-4347	AJO-4348
C8	—	00D-4133-R0	—	—	00D-4133-E0	—	AJO-4289	AJO-4290
ODS(1)	00F-4134-B0	—	00F-4134-R0	—	00D-4134-E0	00F-4134-E0	AJO-4286	AJO-4287
ODS(2)	—	—	00F-4135-R0	00B-4135-E0	00D-4135-E0	00F-4135-E0	AJO-4286	AJO-4287
NH <sub>2</sub>	—	—	00F-4137-R0	—	—	00F-4137-E0	AJO-4301	AJO-4302

for ID: 2.0-3.0 mm 3.2-8.0 mm

5 µm Columns (mm)						SecurityGuard™ Cartridges (mm)	
Phases	250 x 2.0	150 x 3.2	250 x 3.2	150 x 4.6	250 x 4.6	4 x 2.0	4 x 3.0
						/10pk	/10pk
Silica	—	—	—	00F-4139-E0	00G-4139-E0	AJO-4347	AJO-4348
C6	—	—	—	00F-4141-E0	00G-4141-E0	—	—
C8	—	—	00G-4142-R0	00F-4142-E0	00G-4142-E0	AJO-4289	AJO-4290
ODS(1)	—	00F-4143-R0	00G-4143-R0	00F-4143-E0	00G-4143-E0	AJO-4286	AJO-4287
ODS(2)	00G-4144-B0	00F-4144-R0	00G-4144-R0	00F-4144-E0	00G-4144-E0	AJO-4286	AJO-4287
NH <sub>2</sub>	—	—	00G-4147-R0	00F-4147-E0	00G-4147-E0	AJO-4301	AJO-4302
Phenyl	—	—	—	00F-4148-E0	00G-4148-E0	AJO-4350	AJO-4351
SAX	00G-4149-B0	00F-4149-R0	—	00F-4149-E0	00G-4149-E0	AJO-4310	AJO-4311

for ID: 2.0-3.0 mm 3.2-8.0 mm

10 µm Columns (mm)		SecurityGuard™ Cartridges (mm)	
Phases	250 x 4.6	4 x 3.0	
		/10pk	
ODS(1)	00G-4155-E0	AJO-4287	
ODS(2)	00G-4156-E0	AJO-4287	
SAX	00G-4160-E0	AJO-4311	

for ID: 3.2-8.0 mm

† Comparative separations may not be representative of all applications.  
 SphereClone™ is a trademark of Phenomenex. Phenomenex is a registered trademark.  
 †Spherisorb columns used for comparison studies were purchased from manufacturer.  
 †Spherisorb is a registered trademark of Waters. Phenomenex has no affiliation with Waters.

# Spherex™

- For Availability and Ordering Information please contact your Phenomenex Technical Consultant.

# Spherisorb®

- Expertly packed by Phenomenex

Phenomenex packs Spherisorb® material to high standards of quality. We have been packing Spherisorb columns for over 25 years and frequently get requests from customers who have to use Spherisorb and want Phenomenex-packed Spherisorb.

**Use SphereClone Columns  
as an Alternative to Spherisorb**


See p. 255


Ordering Information SecurityGuard™ Analytical Cartridges require universal holder Part No.: KJO-4282

5 µm Columns (mm)		SecurityGuard™ Cartridges (mm)	
Phase	150 x 4.6	250 x 4.6	4 x 3.0
			/10pk
C8	00F-0104-E0	00G-0104-E0	AJO-4290
ODS(1)	00F-0105-E0	00G-0105-E0	AJO-4287
ODS(2)	00F-0106-E0	00G-0106-E0	AJO-4287

for ID: 3.2-8.0 mm

Spherisorb® is a registered trademark of Waters Corp.  
 Phenomenex is not affiliated with Waters Corp.

 Other column dimensions available upon request.

 For SecurityGuard Cartridge Holders and Cartridges, see p. 244