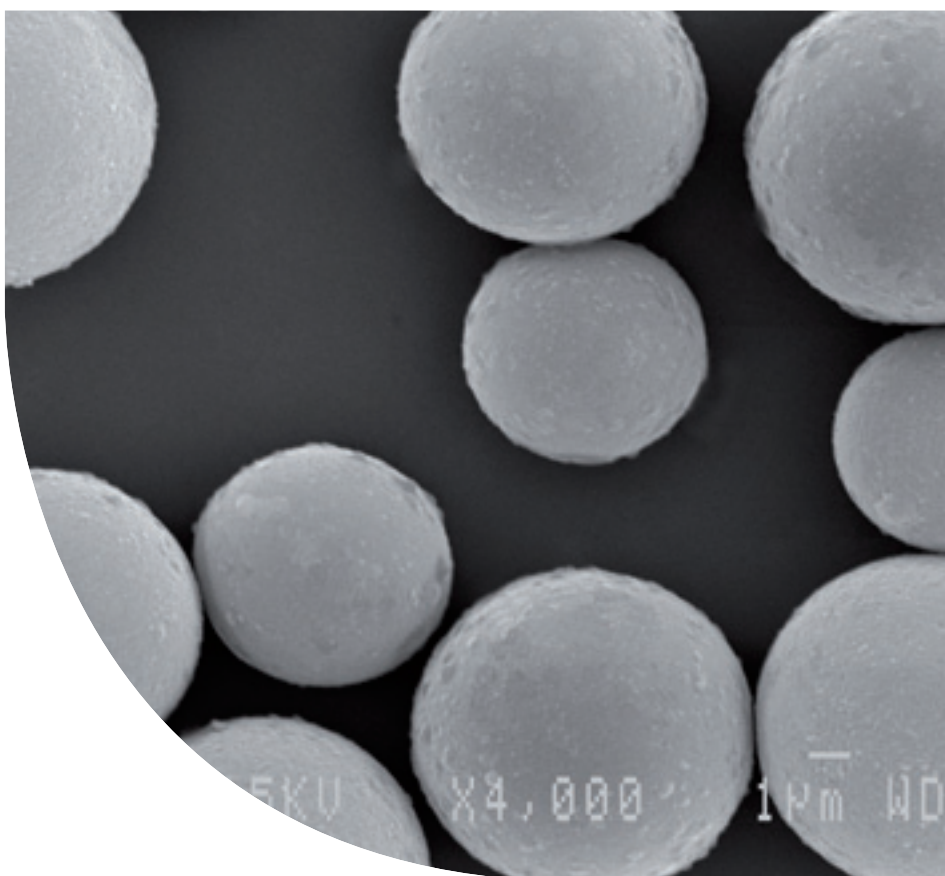




SiliaSphereTM

Spherical Silica Gels



Distributed by

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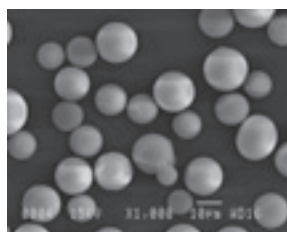
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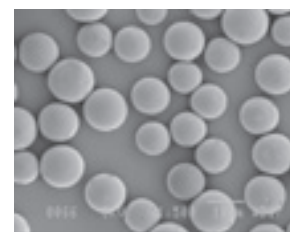
SiliaSphere Spherical Silica Gel

SiliCycle is your partner of choice for your purification and chromatography needs.

- SiliCycle has improved large-scale production of its SiliaSphere spherical silica support. You will be happy to see that the quality is superior due to a narrower particle size distribution.
- SiliaSphere spherical silica gels present great advantages for your preparative chromatography applications.



Old version
S10007G



New version
S10007G-A

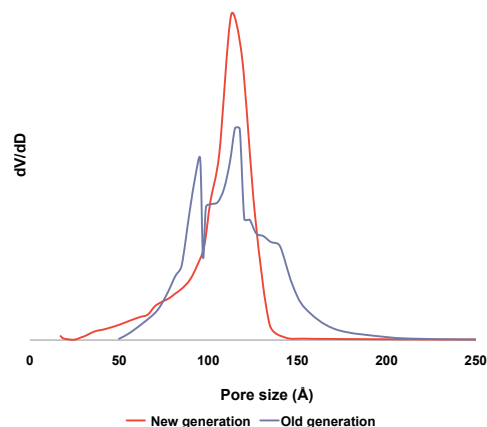
SEM picture of 10 μm

SiliaSphere Monodispersed Spherical Silica Gels

Our SiliaSphere family of silicas are monodispersed spherical silica gels with particle sizes from 1.8 to 15 μm . The 1.8, 2.2, 3, and 5 μm gels are used in analytical scale chromatography. The 10 and 15 μm gels are used in preparative chromatography. Available in 60, 80, 100, 120 and 300 \AA pore sizes.

Our SiliaSphere are characterized by low metal content to avoid specific interaction between acid sites and analytes as well as high mechanical stability and very high purity.

The SiliaSphere are manufactured from an organic form of silicon (alkoxydes). This ensures very low metal content as the starting material is purified by distillation. Deionized water is used to hydrolyze the silicon alkoxydes. Careful monitoring and control of the parameters that induce precipitation afford spherical silica gels with the desired characteristics.



The SiliaSphere family is characterized by a very low metal content and exceptionally stable at the low or high pH. The SiliaSphere manufacturing process ensures quality and reproducibility in pore size, surface area and particles sizes and morphology. The high specific surface area enables a high loading capacity with a uniform and reproducible coverage.

Please note that we are able to provide all our functionalized products (C18, C8, amine, cyano, diol, etc.) on any spherical silica gel presented in this catalog. Contact us for details!



SiliaSphere Product Overview

SiliaSphere Monodispersed Spherical Silica Gels				
Product Number	Particle Size (μm) D50	Pore Diameter (\AA)	Pore Volume (mL/g) / Spec. Surf. Area (m^2/g)	BONDED C18 mono Product Number
BARE SiliaSphere Monodispersed Spherical Silica				C18 mono
S10007B-A	10	60	0.85 - 1.15 / ≥ 600	S03207B-A
S10008B-A	15	60	0.85 - 1.15 / ≥ 600	S03208B-A
S10003F-A	3	80	0.85 - 1.15 / ≥ 450	S03203F-A
S10005F-A	5	80	0.85 - 1.15 / ≥ 450	S03205F-A
S10007F-A	10	80	0.85 - 1.15 / ≥ 450	S03207F-A
S10008F-A	15	80	0.85 - 1.15 / ≥ 450	S03208F-A
S10003E-A	3	100	0.85 - 1.15 / ≥ 400	S03203E-A
S10005E-A	5	100	0.85 - 1.15 / ≥ 400	S03205E-A
S10007E-A	10	100	0.85 - 1.15 / ≥ 400	S03207E-A
S10008E-A	15	100	0.85 - 1.15 / ≥ 400	S03208E-A
S10001G-A	1.8	120	0.85 - 1.15 / ≥ 300	S03201G-A
S10002G-A	2.2	120	0.85 - 1.15 / ≥ 300	S03202G-A
S10003G-A	3	120	0.85 - 1.15 / ≥ 300	S03203G-A
S10005G-A	5	120	0.85 - 1.15 / ≥ 300	S03205G-A
S10007G-A	10	120	0.85 - 1.15 / ≥ 300	S03207G-A
S10008G-A	15	120	0.85 - 1.15 / ≥ 300	S03208G-A
S10003M	3	300	0.75 - 1.05 / ≥ 80	S03203M
S10005M	5	300	0.75 - 1.05 / ≥ 80	S03205M
S10007M	10	300	0.75 - 1.05 / ≥ 80	S03207M
S10008M	15	300	0.75 - 1.05 / ≥ 80	S03208M
S10007T	10	1,000	0.75 - 1.05 / ≥ 20	S03207T
S10008T	15	1,000	0.75 - 1.05 / ≥ 20	S03208T

pH (5% w/w): 4 - 7, Volatile content: ≤ 10

Formats : 100g, 500g, 1kg, 5kg, 10kg, 25kg, ... up to multi-ton scale

SiliaSphere PC (Preparative Chromatography)

Cost is very important in preparative and process chromatography, and the use of spherical particles with narrow particle size distribution is very expensive. It is possible in this case to use irregular or angular silica but the separation may not provide the desired results. For these situations, SiliCycle has developed a second class of spherical silica particles for preparative chromatography. The advantage of using SiliaSphere PC materials over standard silica gels includes the following:

- Increased efficiency of the eluent's flow characteristics
- Improvement of the resolution between compounds of a sample
- Ease of packing

SiliaSphere for Preparative Chromatography							
Product Number	Particle Size (µm) D50	Pore Diameter (Å)	Surface Area (m ² /g)	Product Number	Particle Size (µm) D50	Pore Diameter (Å)	Surface Area (m ² /g)
S10030B-A	50	60	≥ 650	S10020M	30	300	≥ 100
S10034B-A	75	60	≥ 650	S10030M	60	300	≥ 100
S10040B-A	100	60	≥ 650	S10040M	100	300	≥ 100
S10063B-A	150	60	≥ 650	S10020T	30	1,000	≥ 50
S10030G-A	50	150	≥ 290	S10030T	60	1,000	≥ 50
S10040G-A	100	150	≥ 290	S10040T	100	1,000	≥ 50

Formats : 250g, 1kg, 5kg, 10kg, 25kg, ... up to multi-ton scale

IMPAQ Angular Silica Gels

The IMPAQ angular silica gels are a good alternative to spherical material for preparative applications as they provide very efficient separations at a much lower price. IMPAQ is premium-grade angular silica designed for preparative chromatography where consistent

high purity and narrow particle distribution and pore dimension are required. IMPAQ is a porous silica gel in which the surface area, porosity and rigidity have been optimized for loading capacity and mechanical stability.

IMPAQ for Preparative Chromatography						
Product Number	Particle Size Distribution (µm)		Pore Diameter (Å)	Pore Volume (mL/g)	Spec. Surface Area (m ² /g)	pH (5% w/w)
	D50	D10/D90				
B10007B	10 µm	≤ 1.8	60	0.70 - 0.85	≥ 450	≥ 4
B10009B	20 µm	≤ 1.8	60	0.70 - 0.85	≥ 450	≥ 4
B10025B	40 µm	≤ 2.1	60	0.70 - 0.85	≥ 450	≥ 4
B10007E	10 µm	≤ 1.8	100	1.0 - 1.4	≥ 400	≥ 6
B10009E	20 µm	≤ 1.8	100	1.0 - 1.4	≥ 400	≥ 6
B10025E	40 µm	≤ 2.1	100	1.0 - 1.4	≥ 400	≥ 6

Formats : 100g, 1kg, 5kg, 10kg, 25kg, ... up to multi-ton scale