

Product Information

DAVISIL® LC60Å 40-63µm

Chromatographic Silica

Product Description

DAVISIL® LC60Å 40-63µm Chromatographic Silica is a white powder consisting of synthetic amorphous silica.

Product Characteristics

The following specification parameters will be stated in our Certificate of Analysis.

Property	UOM	Value	Test Method
Total Volatile (950°C)	%	13.0 max.	GRACE Q 007
Loss on Drying (160°C)	%	6.0 max.	GRACE Q 009
SiO ₂ Content (dry basis)	%	99.4 min.	GRACE Q 271
Fe ₂ O ₃ Content (dry basis)	%	0.014 max.	GRACE Q 271
Na ₂ O Content (dry basis)	%	0.15 max.	GRACE Q 271
SO ₄ Content (dry basis)	%	0.10 max.	GRACE Q 271
Particle Size, Malvern® Mastersizer® 2000			GRACE Q 073
10% Percentile	µm	23.4 - 41.1	
50% Percentile	µm	48.2 - 65.3	
90% Percentile	µm	75.5 - 96.0	
pH (5% aqueous suspension)		6.0 - 8.0	GRACE Q 064
Surface Area	m ² /g	500 - 600	GRACE Q 049
Pore Volume (N ₂)	ml/g	0.8 - 1.0	GRACE Q 049
Average Pore Diameter	Å	53 - 80	GRACE Q 059

Typical Properties and Recommended Applications

The following Typical Properties data are given for informational purposes only, and are not to be interpreted as product or in-process specifications.

Property	UOM	Typical Value
Pore Diameter	Å	65
Surface Area	m ² /g	550
Pore Volume	ml/g	0.91
Bulk Density	g/l	420
Silica (SiO ₂)	wt %	99.8
Iron (Fe ₂ O ₃)	%	0.005
pH		6.9
Particle Size 50% Percentile, Malvern® Mastersizer® 2000	µm	57

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DAVISIL® LC60Å 40-63µm Chromatographic Silica is suitable for use as a packing for liquid chromatography normal phase separations with low operating pressures, a substrate for supporting surface functionalization, and as an adsorbent in continuous stirred tank processes.

Packaging Information

The standard packaging for DAVISIL® LC60Å 40-63µm Chromatographic Silica is:

25 kg/drum 6 drums/pallet 150 kg/pallet pallet size: 800 x 1200 mm

Handling & Storage Recommendations

Like all other finely powdered products, DAVISIL® LC60Å 40-63µm Chromatographic Silica has a tendency to develop dust. During handling, precautions should be taken against electrostatic discharge. Additional information can be found in our Safety Data Sheet (SDS).

Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination of the product. The material in standard packaging should be used within 24 months from the date of production.

Health & Safety Information

DAVISIL® LC60Å 40-63µm Chromatographic Silica is a synthetic, amorphous silica. Additional information can be found in our Safety Data Sheet (SDS). Please refer also to national laws and regulations.

Certification

- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001

Other Information

The information contained herein is based on our testing and experience and is offered for the user's consideration, investigation and verification. Since operating and use conditions vary and since we do not control such conditions, we must **DISCLAIM ANY WARRANTY, EXPRESSED OR IMPLIED**, with regard to results to be obtained from the use of this product. Test methods are available on request.

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