

# DAVISIL® CHROMATOGRAPHIC SILICA

Davisil® LC60Å 30-200µm silica



## Product Description

Davisil® media is a white powder consisting of synthetic amorphous silica.

PRODUCT SPECIFICATIONS			
Property	Unit	Specification	Test Method
<b>Chemical</b>			
Total Volatiles @ 950°C	%	13.0 max	GRACE Q 07
Moisture @ 160°C	%	6.0 max	GRACE Q 09
Silica (SiO <sub>2</sub> ), dry base	%	99.4 min	GRACE Q 271
Iron (Fe <sub>2</sub> O <sub>3</sub> ), dry base	%	0.014 max	GRACE Q 271
Soda (Na <sub>2</sub> O), dry base	%	0.15 max	GRACE Q 271
Sulfate (SO <sub>4</sub> )	%	0.10 max	GRACE Q 271
pH		6.0 – 8.0	GRACE Q 64
			DIN EN ISO 787-9
<b>Particle Size</b>			
Malvern Laser Diffraction			
10% Percentile	Microns	30.0min	GRACE Q 73
90% Percentile	Microns	250.0max	GRACE Q 73
<b>Physical</b>			
Surface Area	m <sup>2</sup> /g	500 – 600	GRACE Q 49
Pore Volume, N <sub>2</sub>	ml/g	0.8 – 1.0	GRACE Q 49
Pore Diameter	Angstroms	53 – 80	GRACE Q 59

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

TYPICAL PROPERTIES		
Property	Unit	Typical Value
Pore Size	Å	65
Surface Area	m <sup>2</sup> /g	550
Pore Volume	ml/g	0.91
Bulk Density	g/L	420
Silica (SiO <sub>2</sub> )	wt.%	99.8
Iron (Fe <sub>2</sub> O <sub>3</sub> )	%	0.005
pH		6.9
Particle Size 50% Percentile*	µm	110

\*Malvern Laser Diffraction

Certified Quality System DIN ISO 9001 DQS 9001 Reg. No. 0924

see reverse side also

## Recommended Applications

Davisil® 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

PACKAGING				
Cat. #	Package Size	Package Type	Packages per Pallet	Pallet Size
5152703	25kg	80L drum	6 drums/pallet (150kg/pallet)	800 x 1200mm

## Handling & Storage Recommendations

Like all other finely powdered products, Davisil® 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. Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination of the product. The material should be used within 24 months from the date of production.

## Health & Safety Information

Full EH&S information is available by requesting an SDS from any Grace representative. Davisil® silica is a synthetic, amorphous silica. Please also refer to national laws and regulations.

## 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.