

SILICYCLE[®] SPECIFICATION SHEET

SiliaBond[®] Dimethylamine



PRODUCT NUMBER: R45030B
PARTICLE SHAPE: Irregular Silica Gel

COMPANY IDENTIFICATION

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Properties	Specifications	Analysis Methods
BARE SILICA SPECIFICATIONS		
Particle Size Distribution (µm)	40 - 63	Laser Diffraction
Pore Diameter (Å, BJH)	60	Nitrogen Adsorption / Desorption Method at 77K
Specific Surface Area (m ² /g, BET)	470 - 530	
Specific Pore Volume (mL/g, BJH)	0.70 - 0.85	
FUNCTIONALIZED SILICA SPECIFICATIONS		
Color	White Powder	Visual Test
Chemical Structure	Peaks at 1330-1380 & 1469 cm ⁻¹	FTIR
Nitrogen Content (%)	≥ 1.60	CHNS Analyser
Molecular Loading (mmol/g)	≥ 1.14	Based on Nitrogen Content
Surface Coverage (µmol/m ²)	≥ 2.63	Based on Molecular Loading
Endcapping	Yes	-
Purity (%)	≥ 99.95	GC-MS
Volatile Content (% , 110°C)	≤ 4.00	Moisture Balance

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