

SILICYCLE[®] SPECIFICATION SHEET

SiliaBond[®] Carbodiimide (DCC)



PRODUCT NUMBER: R70530B
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	Off-white Powder	Visual Test
Chemical Structure	Peaks at 1400-1470, 1340-1580 & 2130-2155 cm ⁻¹	FTIR
Nitrogen Content (%)	≥ 3.10	CHNS Analyser
Active Loading (mmol/g)	≥ 0.91	Titration of Oxalic Acid Based on Molecular Loading
Surface Coverage (µmol/m ²)	≥ 2.81	
Endcapping	Yes	-
Purity (%)	≥ 99.95	GC-MS
Volatile Content (%, 110°C)	≤ 4.00	Moisture Balance

Revision Date: 2008/11/24

Version: 1,1