

SILICYCLE[®] SPECIFICATION SHEET

SiliaBond[®] Phenyl nec



PRODUCT NUMBER: R34130B
PARTICLE SHAPE: Irregular Silica Gel

COMPANY IDENTIFICATION

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 CANADA

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Properties	Specifications	Analysis Methods
BARE SILICA SPECIFICATIONS		
Particle Size Distribution (μm)	40 - 63	Laser Diffraction
Pore Diameter (\AA , 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 696-736, 1430, & 1688-1702 cm^{-1}	FTIR
Carbon Content (%)	≥ 8.00	CHNS Analyser
Molecular Loading (mmol/g)	≥ 1.11	Based on Carbon Content
Surface Coverage ($\mu\text{mol}/\text{m}^2$)	≥ 2.51	Based on Molecular Loading
Endcapping	No	-
Purity (%)	≥ 99.95	GC-MS
Volatile Content ($\%$, 110°C)	≤ 4.00	Moisture Balance

Revision Date: 2008/12/04

Version: 1,1