

PORESPHERE® Makro-B

Silica gel wide-pored type B

Section 1: Information about the supplier/distributor

GIEBEL Desiccants GmbH
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Germany
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Section 2: Name of substance

Chemical Product Name:	Silicon dioxide	
Composition:	≥99% Silicon Dioxide	SiO ₂
Colour change:	None	
CAS No.:	7631-86-9	
EC No.:	231-545-4	
REACH Registration number:	01-2119379499-16-0401	

Section 3: Typical Application

- a) Catalyst carrier – stable at high temperatures
- b) Chromotography & separation technology – separation of large organic molecules, e.g. proteins and polymers
- c) Cosmetics and pharmaceutical sector Excipients for active ingredients, e.g. in creams or tablets

Section 4: Specifications

Pore Size:	~7.5 nm
Appearance and shape:	Colorless, solid balls
Particle size:	3.0 - 5.0 mm
Bulk density:	0.5 g/ml
Pore volume:	0.85 - 1.0 ml/g
Crushing strength:	≥200 N
PH:	6,7
Specific surface:	650-800 m ² /g
Abrasion rate:	≤1%
Water Adsorption Capacity:	
at 25°C and 100%RH	>900 ml/kg
Adsorption RH=20%, ≥	5,9 %
at 25°C RH=50%, ≥	12,5 %
RH=90%, ≥	71,2 %
Regeneration temperature:	140 °C
Maximum storage time:	Two years

Section 5: Regeneration:

PORESPHERE™ Makro B can be regenerated by heating. To remove moisture, a temperature of 140°C is required. A correctly regenerated silica gel can reliably provide moisture. The dehumidification performance is highly dependent on temperature, humidity and gas composition in the process.