

PORESPHERE® White / 1.0 – 3.0mm

Silica Gel Type A Narrow Pore White

Section 1: Information about the supplier/distributor

GIEBEL Desiccants GmbH
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74626 Bretzfeld-Schwabbach
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) Desiccant
- b) Catalyst Carrier
- c) Adsorbents

Section 4: Specifications

Pore Size:	2.0 – 3.0 nm	
Appearance and shape:	White, solid balls	
Particle size:	1.0 - 3.0 mm	
Bulk density:	0.775 g/ml	
Pore volume:	0.35-0.45 ml/g	
Crushing strength:	≥200 N	
PH:	4,38	
Specific surface:	650-800 m ² /g	
Abrasion rate:	≤2%	
Water Adsorption Capacity:	>370 ml/kg	(at 25°C and 100%RH)
Adsorption at 25°C:	11,61 %	(RH=20%, ≥)
	25,04 %	(RH=50%, ≥)
	39.86 %	(RH=90%, ≥)
Regeneration temperature:	140 °C	
Maximum storage time:	Two years	

Section 5: Regeneration:

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