

PORESPHERE® AL-H

Silica Gel Alumina Gel-H

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:	96.6% silicon dioxide	SiO ₂
	3.4% Alumina	Al ₂ O ₃
Colour change:	None	
CAS No.:	7631-86-9	
EC No.:	231-545-4	
REACH Registration		
number:	01-2119379499-16-XXX	

Section 3: Typical Application

- a) Air and Gas Drying – Ideal for use in compressed air dryers, PPE plants or gas packaging lines.
- b) Adsorption of polar compounds
- c) Catalyst carrier - excellent carrier material for acid-catalytic reactions
- d) Solvent drying – advantageous in laboratory or production processes
- e) Pharmaceutical Intermediates

- f) Stabilizer Packaging Industry – Moisture and Odor Absorbers in Closed Packaging Systems
- g) Chromatography carrier (preparative)

Section 4: Specifications

Appearance and shape:	White, solid balls
Particle size:	3.0 - 5.0 mm
Bulk density:	0.725 g/ml
Pore volume:	0.49 ml/g
Crushing strength:	≥211 N
Specific surface area:	729 m ² /g
Abrasion rate:	0,01 %
Adsorption	RH=10%, ≥ 6,5 %
at 25 °C	RH=20%, ≥ 9,7 %
	RH=60%, ≥ 36,6 %
	RH=80%, ≥ 44,2 %
Regeneration temperature:	140 °C
Maximum storage time:	Two years

Section 5: Regeneration:

PORESPHERE® AL-H 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.