

PORESPHERE® AL-W (water resistant)

Silica Gel Alumina Gel-W

Section 1: Information about the supplier/distributor

GIEBEL Desiccants GmbH
Carl-Zeiss-Str. 5
74626 Bretzfeld-Schwabbach
Germany
Telephone: +49 7946 944401-11
Email: desiccants@gf-dry.com

Section 2: Name of substance

Chemical Product Name:	Silicon dioxide	
Composition:	86.5% silicon dioxide	SiO ₂
	13.5% Alumina	Al ₂ O ₃
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) Compressed air and gas drying in high humidity – especially for high humidity or liquid water contact
- b) Dehumidification in demanding applications – ideal for dynamic air drying
- c) Regenerative dry cartridges and cartridges
- d) Open Adsorption Systems – Contact with Condensed Water
- e) Air and gas systems with a risk of condensate

Section 4: Specifications

Appearance and shape:	White, solid balls
Particle size:	3.0 - 5.0 mm
Bulk density:	0.749 g/ml
Pore volume:	0.42 ml/g
Crushing strength:	≥97 N
Specific surface:	540 m ² /g
Abrasion rate:	0,03 %
Adsorption	RH=10%, ≥ 4,1 %
at 25 °C	RH=20%, ≥ 6,5 %
	RH=60%, ≥ 22,9 %
	RH=80%, ≥ 34,1 %
Regeneration temperature:	140 °C
Maximum storage time:	Two years

Section 5: Regeneration:

PORESPHERE™ AL-W 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.