



HYYON® INDUSTRIAL

Date: 01 / 2019

Revision: 10

## Product Information

SILICAGEL small porous, white

PI-No.: SG-1

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### Product Description

Glassy, hard, irregular shaped granules with a very high purity of approx. 99.5 % SiO<sub>2</sub> (dry basis) and an internal surface area of approx. 800m<sup>2</sup>/g. Because of its very large surface area, SG-1 exhibits a high adsorption for water vapour. SG-1 can be reactivated without significantly impairing the efficiency. It is therefore very economical, easy to dispose of and without any known adverse effects on the environment.



Formula

SiO<sub>2</sub> · n (H<sub>2</sub>O) (amorphous form of silica)

CAS-No.

7631-86-9

**Physical and chemical  
Characteristics**

Typical water vapour adsorption capacity  
at 20 % RH min. 10.5 %  
at 50 % RH min. 23.0 %  
at 90 % RH min. 34.0 %

**Moisture loss (140 °C)**

max. 2.0 %

**Bulk density**

620 – 800 g/l

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<b>Standard grain sizes</b>	0.2 – 1.0 mm
	0.5 – 1.6 mm
	1.0 – 3.15 mm
	3.0 – 6.0 mm
	Other special gradings on request

### Applications

Due to its extremely high adsorptive capacity SG-1 small porous has a multitude of uses: Static adsorption (=removal of moisture and control of humidity in packaging and other enclosed spaces without induces air flow). Dynamic adsorption(=removal of water from a continuously flowing glass or liquidstream). The emperature at reactivation should not exceed 180 ° C. Due for its strong affinity for polar molecules and substances respectively, water vapour as well as polar organic substances (e. g. ketones and acids) are being adsorbed on the inner surface of Silica Gel. SG-1 small porous, white is specially suitable for NOVACOR SCLAIRTECH process for LLDPE/HDPE production.

### Packing

Airtight in 25 kg bags, cartons, reconditioned 150 kg steel drums or 1000 kg bulk bags with PE-Inliner

### Handling

SG-1 must always be kept in airtight containers to avoid pre-adsorption with water vapour. Face masks should be used at continual exposure to extensive dusting.

### Note

Any details of application possibilities do not free the purchaser from the obligation of performing his own tests on the material supplied by the seller, in order to determine their suitability for the intended processes and purposes. Application, use and processing of the material cannot be controlled by the seller and are thus the sole responsibility of the purchaser.

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