

PRODUCT INFORMATION

SPEC NO. SIO - 01

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Brand Name	SIOGEL® small porous, white	
Product Description	glassy, hard, irregular shaped granules with a very high purity of approx. 99.5 % SiO ₂ (dry basis) and an internal surface area of approx. 800 m ² /g. Because of its very large surface area SIOGEL exhibits a high adsorption for water vapour. SIOGEL 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 ₂ · n (H ₂ O) (amorphous form of silica)	
CAS No.	7631-86-9	
Physical Characteristics	Typical water vapour adsorption capacity	
	at 20 % RH	10.0 % min.
	at 40 % RH	20.0 % min.
	at 80 % RH	31.0 % min.
	Moisture loss (140°C)	2.0 % max.
	Bulk density	650 - 800 g/l
Standard grain sizes	0.2 - 1.0 mm 1,0 - 3.15 mm 2.5 - 5.0 mm other special gradings on request	

OKER-CHEMIE GmbH
Im Schleeke 77 D - 38642 Goslar
P. O. Box 13 28 D - 38603 Goslar

Phone +49 5321/751-3415
Fax +49 5321/751-6509
E-mail: vertrieb@oker-chemie.de
Internet: <http://www.oker-chemie.de>

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Applications

Due to its extremely high adsorptive capacity SIOGEL has a multitude of uses:

static adsorption (=removal of moisture and control of humidity in packaging and other enclosed spaces without induced air flow).

dynamic adsorption (=removal of water from a continuously flowing gas or liquid stream).

The temperature at reactivation should not exceed 180 °C.

Packaging

airtight in 25 kg-cartons, reconditioned 125 kg-steel drums or 1,000 kg-bulk bags

Handling

SIOGEL 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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