OKER CHEMIE®	**Product Information**	
	SIOGEL® small pored, white, beads	
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Revision: 08		

Product Description

Glassy, hard beads with a pharmaceutical-grade purity according USP, and an internal surface area of approx. 800m²/g. Because of its very large surface area SIOGEL® beads exhibit a high adsorption capacity for water vapour. SIOGEL® beads can be reactivated without significantly reducing the adsorption efficiency. It is therefore very economical, easy to dispose of and without any known adverse effects on the environment.

Formula $SiO_2 \cdot n\ (H_2O)$ (amorphous form of silica)

CAS-No. 7631-86-9

Physical and Chemical Characteristics

Typical water vapour adsorption capacity (at 23°C)	
at 20 % RH	min. 10.0 %
at 40 % RH	min. 21.5 %
at 80 % RH	min. 31.0 %
Moisture loss (140 °C)	max. 2.0 %
Bulk density	680 – 780 g/l

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Standard grain sizes	∅ 0.5 – 1.0 mm ∅ 0.5 – 1.5 mm ∅ 1.0 – 3.15 mm ∅ 2.5 – 4.0 mm

Application	Due to its extremely high adsorptive capacity SIOGEL® beads have a multitude of uses: Static adsorption (moisture removal and humidity control in packaging and other enclosed spaces without induced air flow). Dynamic adsorption (moisture removal from a continuously flowing gas or liquid stream). The temperature of reactivation should not exceed 180 °C.
Packing	• Airtight in 15/25 kg-cartons with PE-Inliner • reconditioned 125 kg steel drums with PE-Inliner • 800 kg bulk bags with PE-Inliner
Handling	SIOGEL® must always be kept in airtight containers to avoid pre-adsorption with water vapour. Face masks should be used during continuous exposure to extensive dusting.
Note	Any details of application possibilities do not free the purchaser from the obligation of performing 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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