

Product Description

Glassy, hard, irregular shaped granules with pharmaceutical-grade purity according USP, and an internal surface area of approx. 800m²/g. Due to its very large surface area, SIOGEL® exhibits a high adsorption capacity for water vapour. SIOGEL® 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

SiO₂ · n (H₂O) (amorphous form of silica)

CAS-No.


7631-86-9

Physical and Chemical

Typical water vapour adsorption capacity (at 23°C)

Characteristics

at 20 % RH	min. 10.0 %
at 40 % RH	min. 20.0 %
at 80 % RH	min. 31.0 %
Moisture loss (140 °C)	max. 2.0 %
Bulk density	620 – 800 g/l

	Product Information	
	SIOGEL® small pored, white	
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Standard grain sizes	0.2 – 1.0 mm 0.5 – 1.5 mm 1.0 – 3.15 mm 3.0 – 6.0 mm Other special gradings on request
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Applications	Due to its extremely high adsorptive capacity SIOGEL® small porous has 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 at reactivation should not exceed 180°C. Due to its strong affinity for polar molecules and compounds, water vapour as well as polar organic substances (e. g. ketones and acids) are adsorbed on the inner surface of Silica Gel.
Packing	Airtight in 25 kg – cartons, reconditioned 125 kg – steel drums or bulk bags with max. 850kg
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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