

ADSORBENT SORBEO SGR

(Drying and Purification)

DESCRIPTION

Adsorbent SORBEO SGR is a narrow pore, beaded form of silica. It consists of relatively large beads and is used in a wide variety of drying and purification processes. Main applications are in dynamic drying and hydrocarbon dew point control of Natural Gas, drying of other gases and liquids in refining and petrochemical processes, and in air drying. Beaded silica gels are specifically suitable, when dust and attrition are critical in application.⁽¹⁾

APPLICATIONS

- Water vapour removal/Drying

⁽¹⁾For any other technical gas please contact us or your local dealer

TECHNICAL SPECIFICATION

(Typical Values)

Appearance	Spherical beads	
Material	SiO ₂	97 wt%
	Al ₂ O ₃	3 wt%
Grain size	approx. 2-5 mm	
Surface area	750 m ² /g	
Moisture content (160°C)	2% max.	
Screen Analysis	>4.0mm = 5% max.	
	<3,15mm = 75% max.	
	<2,5mm = 7% max	
Bulk Density	700 g/l	
H ₂ O-Adsorption at Capacity 10% r.h., 25°C	6,5 %	
H ₂ O-Adsorption at Capacity 80% r.h., 25°C	36 %	
Single particle crush strength	175 N	
Bulk crush strength	0,98 MPa	

STANDARD PACKING

MODEL	PACKAGE	MASS
SORBEO SGR-S	5,8 L container	4 kg
SORBEO SGR-M	16,6 L container	11,5 kg
SORBEO SGR-L	35,4 L container	24 kg
SORBEO SGR-XL	220 L barrel	150 kg
SORBEO SGR-XXL	BIG BAG	500 kg

HANDLING AND STORAGE

Adsorbent SORBEO SGR should be handled so as to avoid generation of dusty conditions at the workplace. When pouring into a container in the presence of flammable liquids, gases or dust, both containers should be electrically earthed. Storage in a dry warehouse is recommended. Extended exposure to UV light degrades the big bag material and this should be avoided. Open packages should be resealed to prevent contamination and adsorption of water or other gases and vapours. The material in drums should be used within 4 years, the material in big bags within 6 months (from the date of production).

HEALTH AND SAFETY INFORMATION

Adsorbent SORBEO SGW is an amorphous form of silica. In active conditions it will release heat when adsorbing water or other substances. If a large quantity of silica gel quickly adsorbs water, the adsorbent can become hot enough to cause thermal burns of the skin; contact has to be avoided under these conditions. Information to date indicates that the dust from the product is not toxic and does not cause fibrosis. Please refer to relevant national laws and regulations.


First aid measures

General notes	Remove contaminated clothing
Inhalation	Get fresh air If respiratory difficulties persist seek medical attention
Skin contact	Wash with water and soap
Eye contact	Rinse cautiously with water or eye-cleaning solution for several minutes If irritation persists seek medical attention
Ingestion	Rinse mouth and drink plenty of water If symptoms persist seek medical attention

Fire fighting

Extinguishing media	carbon dioxide dry chemical foam water spray
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	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285	
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