

ADSORBENT SORBEO SGWS

(Water resistant silicagel adsorbent)

DESCRIPTION

Adsorbent SORBEO SGWS is a beaded form of alumino-silicat gel resistant to liquid water. It is most frequently used as a protective layer in combination with silica gel or other adsorbents such as molecular sieves, activated alumina, activated carbons and catalysts in order to increase the reliability of the system. Due to its high adsorption capacity it can also be used as standalone adsorbent. With its high resistance against hydrothermal aging and low regeneration temperature, SORBEO SGWS is ideal for applications where adsorbent regeneration with humid gas occurs (e.g. Heat of Compression dryers, ...).

APPLICATIONS

- Protective buffer in adsorbent beds
- Drying of compressed air⁽¹⁾
- Heat of compression regenerated compressed air dryers

⁽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 (BET)	650 m ² /g
Bulk Density	700 g/l
Liquid water resistane	YES
Equilibrium capacity (water vapor @ 25°C)	10% r.h. = 4% wt 80% r.h. = 42% wt

STANDARD PACKING

MODEL	PACKAGE	MASS
SORBEO SGWS-S	5,8 L container	4 kg
SORBEO SGWS-M	16,6 L container	11,5 kg
SORBEO SGWS-L	35,4 L container	24 kg
SORBEO SGWS-XL	220 L barrel	150 kg
SORBEO SGWS-XXL	BIG BAG	750 kg

HANDLING AND STORAGE

Adsorbent SORBEO SGWS 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 SGWS is an alumina-silicat. 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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