

# ADSORBENT SORBEO AA

(Drying, Process stream purification, Acid removal)



## DESCRIPTION

Adsorbent SORBEO AA is a smooth sphere of activated alumina. SORBEO AA is a desiccant for drying a wide variety of liquids and gases. Although all molecules are adsorbed to some extent on activated alumina, those molecules having the highest polarity are preferentially absorbed. Stream conditions such as pressure, concentration and molecular weight of the molecules, temperature and site competing molecules affect the efficiency of adsorption.

Adsorbent SORBEO AA is used in variety of applications such as adsorbent in adsorption dryers, acid removal originating from lubricating oils and refrigerants, process stream purification/removal of highly polar compounds. <sup>(1)</sup>

## APPLICATIONS

- Water vapour removal/Drying
- Acid removal
- Process stream purification

<sup>(1)</sup> For any other technical gas please contact us or your local dealer

## TECHNICAL SPECIFICATION (Typical Values)

Appearance	Spherical beads	
Material	Al <sub>2</sub> O <sub>3</sub>	> 93 %
Bead type	Sphere	
Bead Size	approx. 3-4 mm	
Bulk Density	0,7 g/ml	
Crush Strength (N/granule)	120	
Ignition Loss 800°C, 2h	8 wt%	
Surface Area	380 m <sup>2</sup> /g	
Total Pore volume	0,4 cc/g	
H <sub>2</sub> O-Adsorption at Capacity 60% r.h., 25°C	20 %	

## STANDARD PACKING

MODEL	PACKAGE	MASS
SORBEO AA-S	5,8 L container	3,7 kg
SORBEO AA-M	16,6 L container	11 kg
SORBEO AA-L	35,4 L container	24 kg
SORBEO AA-XL	220 L barrel	155 kg
SORBEO AA-XXL	Big bag	600 kg

## HANDLING AND STORAGE

Adsorbent SORBEO AA 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. 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

In active conditions adsorbent will release heat when adsorbing water or other substances. If a large quantity of activated alumina 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

Inhalation	Get fresh air If respiratory difficulties persist seek medical attention
Skin contact	Adsorbent does not irritate the skin
Eye contact	Rinse with water or eye-cleaning solution If irritation persists seek medical attention
Ingestion	Seek medical attention

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	Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2015	
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