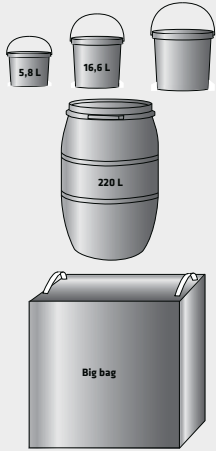




ADSORBENTS



DESCRIPTION

Our adsorbents are highly porous materials suitable for use in many adsorption applications. Adsorbents are available in several pack sizes. For detail specification please refer to technical data sheet of specific adsorbent.

APPLICATIONS

- Adsorption dryers
- N₂/O₂ generators
- Air/Gas/Water purification

AA - Activated Alumina



Adsorbent AA is a smooth sphere of activated alumina. It 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. AA can be used as **adsorbent in adsorption dryers, acid removal originating from lubricating oils and refrigerants, process stream purification/removal of highly polar compounds.**

Model	Shape	Bulk density	Package	Mass
AA-S	Granulate 2,0mm - 5,0mm	0,77 kg/l	5,8 L container	4 kg
AA-M			16,6 L container	12 kg
AA-L			35,4 L container	27 kg
AA-XL			220 L barrel	170 kg
AA-XXL			Big bag	907 kg

MS 3A - Molecular sieve



Adsorbent MS3 is a highly porous, crystalline aluminosilicate in beaded form. The pore openings in the crystals have a diameter of approximately 3 Å. Adsorbent has been specially designated for drying of ethylene in cracked gas units. Also, propylene, butadiene and other unsaturated hydrocarbons are dried using this molecular sieve. Adsorbent is also used in **drying of gases containing H₂S and CO₂**, where COS formation has to be minimized.

Model	Shape	Bulk density	Package	Mass
MS3-S	Granulate 2,5mm - 5,0mm	0,7 kg/l	5,8 L container	4 kg
MS3-M			16,6 L container	11,5 kg
MS3-L			35,4 L container	24 kg
MS3-XL			216,5 L barrel	150 kg
MS3-XXL			4 x barrel	600 kg

SMS 4A - Molecular sieve



Adsorbent MS4 is a highly porous, crystalline aluminosilicate in beaded form. The pore openings in the crystals have a diameter of approximately 4 Å. MS4 is a product for dynamic drying of most gases and vapors. It can also be used to remove other impurities with effective molecule diameters smaller than 4 Å. Typical applications for SORBEO MS4 adsorbent are **drying/purification of natural gas, reformer gas and air.**

Model	Shape	Bulk density	Package	Mass
MS4-S	Granulate 2,5mm - 5,0mm	0,7 kg/l	5,8 L container	4 kg
MS4-M			16,6 L container	11,5 kg
MS4-L			35,4 L container	24 kg
MS4-XL			220 L barrel	150 kg
MS4-XXL			Big bag	800 kg

MS 10A - Molecular sieve



Adsorbent MS10 is a highly porous, crystalline aluminosilicate in beaded form. The pore openings in the crystals have a diameter of approximately 10 Å. Due to its high capacity for water and CO₂ this molecular sieve is widely used for **air purification in cryogenic air separation plants.** It is also applied in the **removal of H₂S/mercaptans and other sulphur compounds** from natural gas and LPG.

Model	Shape	Bulk density	Package	Mass
MS10-S	Granulate 2,5mm - 5,0mm	0,64 kg/l	5,8 L container	3,5 kg
MS10-M			16,6 L container	10,5 kg
MS10-L			35,4 L container	22 kg
MS10-XL			216,5 L barrel	130 kg
MS10-XXL			4x barrel	520 kg

SORBEO SGWS - Water resistant silica gel



Adsorbent SGWS is a beaded form of aluminosilicate 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. It is ideal for applications where adsorbent regeneration with humid gas occurs (e.g. Heat of Compression dryers, ...).

Model	Shape	Bulk density	Package	Mass
SGWS-S	Granulate 2,0mm - 5,0mm	0,7 kg/l	5,8 L container	4 kg
SGWS-M			16,6 L container	11,5 kg
SGWS-L			35,4 L container	24 kg
SGWS-XL			220 L barrel	150 kg
SGWS-XXL			Big bag	750 kg

