

Technical Data Sheet

Product Description

The Molecular Sieve is adsorbent for Drying and Purification of Gases and Liquids is a highly porous, crystalline aluminosilicate in beaded form. The pore openings in the crystals have a diameter of approximately 4 Å.

Typical Properties and Recommended Applications

The following typical properties data are given for informational purposes only, and are not to be interpreted as product or in-process specifications.

Property	UOM	Value
Bulk Density	g/l / lbs/ft ³	730 / 46
Total Volatile (950°C)	%	2.0
H ₂ O-Adsorption Capacity 10% r.h., 25°C	%	18.5
H ₂ O Adsorption Capacity 80% r.h., 25°C	%	22.5
Crush Strength	N / lbs	60 / 13.5
Bead Size	mm	2.5 - 5.0

The molecular sieve is adsorbent for Drying and Purification of Gases and Liquids is a product for dynamic drying and purification 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 The molecular sieve Adsorbent for Drying and Purification of Gases and Liquids are drying/purification of natural gas, reformer gas and air. The molecular sieve is adsorbent for Drying and Purification of Gases and Liquids is further used as Chloride Trap for HCl containing gases.

Packaging Information

The standard packaging for The molecular sieve is adsorbent for Drying and Purification of Gases and Liquids is:

140 kg/drum	4 drums/pallet	560 kg/pallet	pallet: 1200 x 1000 mm
800 kg/big bag	1 big bag/pallet	800 kg/pallet	pallet: 1200 x 1000 mm

Handling & Storage Recommendations

The molecular sieve is adsorbent for Drying and Purification of Gases and Liquids should be handled in a manner to avoid generation of dusty conditions at the workplace. When pouring into a container in the presence of flammable liquids, gases or dust, earth both containers electrically to prevent a static electric spark and the risk of explosion. Additional information can be found in our Material Safety Data Sheet (MSDS). This product when stored in a cool and dry environment such as a warehouse has a shelf life of 48 months when packaged in Drums and 12 months when packaged in Big Bags (from the date of production). Big Bags should not be stored outside for prolonged periods of time, to avoid potential damage due to exposure to UV and rain/water. Extended exposure to UV light degrades the big bag material and this should be avoided. If outside storage is required, we recommend drum packaging. Open packages should be resealed to prevent contamination and adsorption of water or other gases and vapors. If you would like to use this product when the above mentioned shelf life has been exceeded, please contact a local Edmac representative.

Regeneration

For optimum performance of adsorbents in process applications it is recommended to start the first cycle with a regeneration of the adsorbent using a dry (process) gas. The specific regeneration conditions such as temperature, flow and duration of the regeneration step depend on the specific application and will typically be part of the proposed design. For more details please contact your local Edmac representative.

Health & Safety Information

The molecular sieve is adsorbent for Drying and Purification of Gases and Liquids is a synthetic aluminosilicate bound with a mineral clay. Additional information can be found in our Material Safety Data Sheet (MSDS). Please refer also to national laws and regulations.

ISO Certification

ISO 9001 Registered

Other Information

The information contained herein is based on our testing and experience and is offered for the user's consideration, investigation and verification. Since operating and use conditions vary and since we do not control such conditions, we must DISCLAIM ANY WARRANTY, EXPRESSED OR IMPLIED, with regard to results to be obtained from the use of this product. Test methods are available on request.

Contact

Edmac Europe NV
Terbekehofdreef 54, 2610 Wilrijk Belgium
www.edmac.eu
+32 (0)3 750 80 11