

## Molecular Sieve Bead Type 4A

Adsorbent for Drying and Purification of Gases and Liquids

### Product Description

4A Molecular Sieve Beads 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 <sup>3</sup>	730 / 46
Total Volatile (950°C)	%	2.0
H <sub>2</sub> O-Adsorption Capacity 10% r.h., 25°C	%	18.5
H <sub>2</sub> O Adsorption Capacity 80% r.h., 25°C	%	22.5
Crush Strength	N / lbs	60 / 13.5
Bead Size	mm	2.5 - 5.0

4A Sieve Beads 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 are drying/purification of natural gas, reformer gas and air. It is also used as Chloride Trap for HCl containing gases.

### Packaging Information

The standard packaging for 4A Sieve Beads is:

140 kg/drum      4 drums/pallet      560 kg/pallet      pallet: 1200 x 1000 mm

# Molecular 4A Sieve Beads Adsorbent for Drying and Purification of Gases and liquids

## Handling & Storage Recommendations

4A Sieve Beads 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.

## 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.

## Health & Safety Information

4A Sieve Beads 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.