

## Molecular Sieve desiccant in general

Molecular Sieve is an adsorbent with excellent kinetic gas adsorption and separation capacity. This adsorbent is used widely within different industries within applications for Air separation, Oxygen generation, Hydrogen purification and dehydration of Natural gas, Ethanol, Ethylene, Propylene, Refrigerant etc. Molecular Sieve are available in various types depending of the application it shall be used for.



## Description of AdsoMax<sup>®</sup> MS 4A

AdsoMax<sup>®</sup> MS (Molecular Sieve) 4A (often called MS 512) is an alkali aluminosilicate; it is the sodium form of the Type A crystal structure. AdsoMax<sup>®</sup> MS 4A has an effective pore opening of about 4 angstroms (0.4nm) and with a ball size of 3-5 mm. It will adsorb most molecules with a kinetic diameter of less than 4 angstroms and exclude those larger. Such adsorbable molecules include simple gas molecules such as oxygen, nitrogen, carbon dioxide and straight chain hydrocarbons. Branched chain hydrocarbons and aromatics are excluded.

## Recommended Applications

1. Drying and removing of CO<sub>2</sub> from natural gas, LPG, Compressed Air, inert and atmospheric gases, etc.
2. Removal of hydrocarbons, ammonia and methanol from gas streams (ammonia syn gas treating).
3. Dehydration of refrigerant and air in the air break units of buses, trucks and locomotives.
4. Packed in small bags for packing desiccant for foods, etc.

## Packing

- 150 kg air-tight iron drum
- 25 kg carton with inner PE bag
- Big Bag



### Technical Specification

Technical Name	MOLECULAR SIEVES 4A
Diameter	2.5-5 mm
Static Water Adsorption	≥22.5 %wt (RH50%, 25°C)
Bulk Density	≥0.72 g/ml (Tapped)
Loss on Ignition	≤1.50 %wt (575°C, 1hr)
Loss on Attrition	≤0.10
Crush Strength	≥80 N (Avg. 25 beads)
Particle Ratio	≥99 %

### Production and Distribution

AdsoMax<sup>®</sup> is a registered trademark by Kompauto Nordic. Manufacturing of AdsoMax products is made in China with worldwide deliveries distributed by Kompauto Nordic.

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