



## TYPICAL PROPERTIES OF PRODUCT

### MT-Sorb™ 4A

#### A. DESCRIPTION

MT-Sorb™ 4A is a type of molecular sieve produced at the Chinese Joint Venture plant of MinTech Absorbents, LLC.

#### B. TECHNICAL PROPERTIES

Properties	Product Shape	
	Spherical	Extrudes (elongates)
Diameter of single particle, mm	2-3, 3-5, 5-8, or any other size per request	1.6 or 3.2
Norminal pore size, Angstroms	4	
Bulk density (lbs./ft <sup>3</sup> )	41-43	39-41
Bulk density (g/cm <sup>3</sup> )	0.65-0.68	0.62-0.65
Crush strength, N	44-75	15-25
Abrasion, % wt.	≤0.2	≤0.4
Static water adsorption, mg/g	≥210	
Moisture, % wt.	≤1.5	

Typical formular: Na<sub>2</sub>O•A<sub>2</sub>O<sub>3</sub>•2SiO<sub>3</sub>•9/2H<sub>2</sub>O

#### C. APPLICATIONS

MT-Sorb™ 4A is typically used in regenerable drying systems to remove water vapor or contaminants which have a smaller critical diameter than four angstroms. It is applied in purification in various chemical gasses and liquids including Ar and refrigerant.

#### D. REGENERATION

- Dehydration: Allow the gas pass through the sieve bed when the temperature is at 200-350°C and the pressure is at 0.3-0.5 kg/cm<sup>3</sup>. When the outlet temperature reaches 150-180°C, cool the bed down.
- Removal of organic component: Repalce the organic componets with steam and then dehydrate.

#### E. STORAGE

- The product should be stored at room temperature in which the relative humidity is lower than 90%, and be not exposed to air, and prevented against direct contact with water, acids, and alkalies.

#### F. PACKAGING:

1KG	Plastic bags.
30kg (10 gals)	Air tight steel drum.
150kg (55 gals)	Air tight steel drum

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