



## TYPICAL PROPERTIES OF PRODUCT

### MT-Sorb™ 3A

#### A. DESCRIPTION

MT-Sorb™ 3A 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	3	
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	18
Abrasion, % wt.	≤0.4	≤0.6
Static water adsorption, mg/g	≥200	
Moisture, % wt.	≤1.5	

Typical formular:  $2/3K_2O \cdot 1/3Na_2O \cdot A_2O_3 \cdot 2SiO_3 \cdot 9/2H_2O$

#### C. APPLICATIONS

- Drying unsaturated hydrocarbons and highly polar compounds such as ethanol and methanol.
- Very effective in dehydrating the inner space of insulation glass windows as well as refrigerant gases.

#### 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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