



TYPICAL PROPERTIES OF PRODUCT

MT-Sorb™ 10A (13X)

A. DESCRIPTION

MT-Sorb™ 10A is a type of molecular sieve produced at the Chinese Joint Venture plant of **MinTech Absorbents, LLC**. The nominal pore size of **MT-Sorb™ 10A** is same as the pore size of other commercially called 13X.

B. TECHNICAL PROPERTIES

Properties	Product Shape	
	Spherical	Extrudes (elongates)
Diameter of single particle, mm	1.7-2.4, 2.4-4.75, or any other size per request	1.6 or 3.2
Norminal pore size, Angstroms	10	
Bulk density (lbs./ft ³)	41-43	39-41
Bulk density (g/cm ³)	0.59-0.64	0.59-0.64
Crush strength, N	20-15 for 1.7-2.4mm; 55-60 for 2.4-4.75mm	30-45
Abrasion, % wt.	≤0.5	≤0.5
Static water adsorption, g/100g	≥23	
Moisture, % wt.	≤1.5	

Typical formular: 3/4CaO•1/4Na₂O•A₂O₃•2SiO₃•9/2H₂O

C. APPLICATIONS

MT-Sorb™ 10A adsorbs all molecules that can be adsorbed on molecular sieves 3A, 4A and 5A. It can also adsorb molecules of larger critical diameters, such as aromatics and branched-chain hydrocarbons. **MA-Sorb™ 10A** is used for

- general gas drying
- air plant feed purification (removal of both H₂O and CO₂ same time)
- desulfurization of liquid hydrocarbon and natural gas sweetening (H₂S and mercapstan removal).

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/cm³. 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 alkalis.

F. PACKAGING:

1KG	Plastic bags.
30kg (10 gals)	Air tight steel drum.
136.2 (300lb.) - 150kg (55 gals)	Air tight steel drum

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