



TYPICAL PROPERTIES OF PRODUCT

MT-Sorb™ 5A

A. DESCRIPTION

MT-Sorb™ 5A 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	2-2.8, 2.8-4.75, or any other size per request	1.6 or 3.2
Norminal pore size, Angstroms	5	
Bulk density (lbs./ft ³)	41-43	39-41
Bulk density (g/cm ³)	0.62-0.68	0.62-0.65
Crush strength, N	25-30 for the size of 2-2.8mm; 50-60 for 2.8-4.75mm.	15-25
Abrasion, % wt.	≤0.5	≤0.5
Static water adsorption, g/100g	≥19	
Moisture, % wt.	≤1.5	

Typical formular: $3/4\text{CaO} \cdot 1/4\text{Na}_2\text{O} \cdot \text{A}_2\text{O}_3 \cdot 2\text{SiO}_3 \cdot 9/2\text{H}_2\text{O}$

C. APPLICATIONS

MT-Sorb™ 5A is typically used in separate normal paraffins from branched-chain and/cyclic hydrocarbons through a selective adsorption process. It is applied to dry and refine gas and liquid in chemical, petroleum, natural gas and other industries.

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 alkalies.

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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