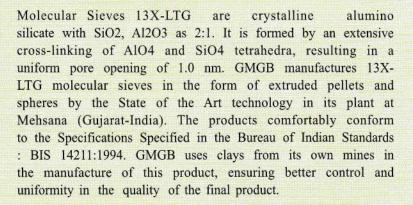


MOLSIEVE 13X-ITE



The micro-porous crystalline structure of 13X-LTG coupled with selective adsorptivity, high adsorption capacity and ability to be regenerated at substantially lower tempeture, makes them especial attractive for Air Separation Units designed for low energy consumption.

# **Specifications**

## **GMGB Molsieve 13X-LTG**

Nominal Dia : 10A°				(1 A° = 10 <sup>-8</sup> cm )	
Form : Cylindrical Pallets and Spheres					
Sr. NO	PHYSICO-CHEMICAL PROPERTIES	Unit	1.6 -2.6 mm dia spheres	2-4 mm dia spheres	
1	Equilibrium Water Adsorption Capacity at 30 and 15% RH	% w/w	23 - 27	23 - 27	
2	75% RH	% w/w	26 - 29	26 - 29	
3	Thermal Stability after 600oC Equilibrium Water Adsorption capacity at 30oC & 15% RH	% w/w	23 - 27	23 - 27	
4	CO <sub>2</sub> Ads. Capacity 760 mmHg. At 30 deg.	% w/w	19.5 - 21.5	19.5 – 21.5	
5	Crushing Strength (Active)	Kg.	3 - 7	4 - 10	
6	Attrition Loss on Tumbling	% w/w	0.02- 0.20	0.02 - 0.25	
7	Free Moisture (Max)	% w/w	1.5	1.5	
8	Bulk Density	g/L	600 - 700	600 - 700	
9	Bed Crushing Strength	%	80 - 90	80 - 90	



## **GUJARAT MULTI GAS BASE CHEMICALS PVT. LTD.**

Opp. ONGC Colony, Palavasna, Mehsana-384003. INDIA

Tel. No.: +91 2762-225566, 225577 Fax No.: +91 2762-225544

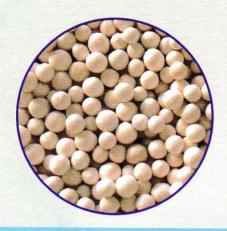
E-mail: gujaratmulti@gmail.com Website: www.gmgbsilica.com







▲ MOLSIEVE 13X-LTG in pellets form



▲ MOLSIEVE 13X-LTG in Spheres form

## Packing:

**Molecular Sieves GMGB 13X-LTG** are packed for industrial use in airtight MS drums under hot conditions with proper sealing arrangement so that there is no ingress of moisture during storage and transport. Standard packing: 200/210 Lit. drum size  $570 \times 860$  (H) mm

#### Life:

MOL. SIEVES 13X-LTG has infinite shelf life, when stores in packed condition. The active service life would depend, however, on the operating conditions of the plant, actual application, and the usage by the customer.

## **Loading:**

MOL. SIEVES 13X-LTG does not require any special precaution or procedure during loading. However, the health of the grid support is to be checked, and the vessel is to be cleaned of dust, foreign particles, etc. before the adsorbent is loaded. During actual loading, the material should be poured carefully through funnel and chute so as to avoid dusting and attrition due to impact of free fall. The drums should be kept in the covered shed. In case of prolonged exposure of the adsorbent to moisture during storage / loading, it may require prolonged regeneration at higher temperature to restore its full adsorptive capacity.

## Material Safety Data:

The product as such is neither inflammable, nor toxic. Overall, it is not hazardous. Repeated exposure may irritate skin, eyes and respiratory system. The product gets hot as it is first exposed to atmosphere due to adsorption of moisture.

## **Regeneration:**

MOL Sieves 13X-LTG should be regenerated thermally or by evacuation with simultaneous purge. For thermal regeneration, the adsorbent may by heated to 180 – 200 deg.C for removal of CO2. For simultaneous removal of H2O and CO2, the adsorbent should be heated to 180-250 deg.C. However, the exact regeneration condition (temperature, purge gas flow, etc) depends on the application, feed quality and other operating condition.

## **Applications:**

- 1. Simultaneous removal of Moisture & CO2 from feed air of Air Separation / Cryogenic Plant.
- 2. Mercaptans removal from gaseous streams.
- 3. Process air drying of dew point less than (minus) 60 deg. C for suphonation plant.
- 4. Sweetening of Natural Gas
- Removal of H2S from gaseous streams.

