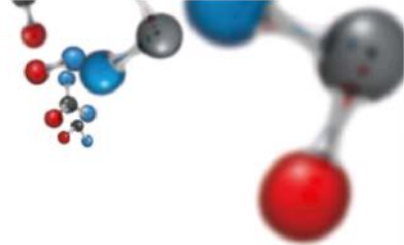


TECHNICAL DATA SHEET (TDS)

MOLECULAR SIEVE 13X



Molecular Sieve type 10 Angstrom (13X) has a X type structure and is formed by arranging soldalight cases into tetrahedral stacking and bridging with the six membered oxygen atom-ring. The oxygen ring provides a cavity opening of the diameter 7.4 Angstrom. But this structure adsorbs molecules upto 10 Angstroms, hence the effective diameter is specified as 10 Angstrom. Molecular Sieve can be represented by general formula

- $M_2 / nO [(Al_2O_3) \cdot (SiO_2)_x] \cdot H_2O$ where, *M* represents Alkali metals with valancy *N*.

The water of hydration which fills the cavities during crystallisation is removed by heating, with remaining cavities forming the active interior surface.

We supply, Molecular Sieve in spherical form. The manufacturing process of molecular sieve is precisely controlled to exhibit an efficient micropore structure and minimum attrition loss to enable the rapid diffusion of absorbate in the core of beads and for better self life .

GENERAL CHARACTERISTICS

Parameter	13X(10A)-G		13X (10A) PP
Shape	Pellets	Beads	Powder
Size (mm)	3.0 & 1.5	0.5 - 6.0	2-10.micron
Bulk Density Kg/ lit	0.55 -0.65	0.55 -0.65	0.50-0.55
Water Adsorption Capacity 4.6 mm of Hg 15% RH(%)	21.5	21.5	27.0
Water Adsorption capacity 30°C & 23.5 mm of Hg (75%RH) (%)	26.5	26.5	31.0
Attrition/ Abrasion Resistance (%)	< 0.2	< 0.2	-----

TYPICAL APPLICATIONS

- Sweeteing Natural Gas
- LPG sweeteing and drying
- Air purification for air seperation plants
- CO2 adsorption and removal of H2O
- Removal of Mercaptance
- Other Sulphur compounds from liquid and gas streams.

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This information is based on our most recent knowledge. However, the application and processing of the material after sale is beyond our control and we cannot assume responsibility for use of this material outside zeolites & Allied Products Pvt. Ltd. premises. The user is obliged to check the suitability of this material for the intended use and accepts sole responsibility for compliance with any legal requirements relating to its use. This document does not constitute a warranty or guarantee.

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