

Molecular Sieve 13X

Molecular Sieve 13X is the sodium form of the type X crystal and has a much larger pore opening than the type A crystals. It will adsorb molecules with a kinetic diameter of less than 9 Angstrom (0.9nm) and exclude molecules of larger than 0.9nm. It is commonly used to separate nitrogen from oxygen. Since it also has the highest theoretical capacity of the common adsorbents and very good mass transfer rates. it usually used as carrier for catalysts.

Property	Unit	Bead		Pellet		Note
		1.6-2.5	3-5	1/16"	1/8"	
Diameter	mm	1.6-2.5	3-5	1/16"	1/8"	
Static H ₂ O Adsorption	%wt	≥26.50	≥26.50	≥26.50	≥26.50	RH75%, 25°C, Activated
Static CO ₂ Adsorption	%wt	≥18.50	≥18.50	≥18.00	≥18.00	250mmHg, 25°C, Activated
Bulk Density	g/ml	≥0.64	≥0.64	≥0.61	≥0.61	Tapped
Water Content	%wt	≤1.50	≤1.50	≤1.50	≤1.50	550°C, 1hr
Loss on Attrition	%wt	≤0.10	≤0.10	≤0.10	≤0.20	~
Crush strength	N	≥30	≥85	≥30	≥50	Avg. 25 beads

Recommended Application:

- Removal of CO₂ and moisture from air (air pre-purification) and other gases.
- Separation of enriched oxygen from air.
- Removal of mercaptans and hydrogen sulphide from hydrocarbon liquid streams such as LPG, butane, propane etc.
- Catalyst protection, removal of oxygenates from hydrocarbons (olefin streams)
- Removal of n-chained compositions from aromatics

Packing:

- 55 gallon air-tight iron drum with 140kg net weight
- Other packing according to your requirement.