Molecular Sieves 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.

Technical Specification

Property	Unit	Bead		Pellet		Note
Diameter	mm	1.6-2.5	3.0-5.0	1/16”	1/8”	
Static H_2O Adsorption	%wt	≥26.50	≥26.50	≥26.50	≥26.50	RH75%, 25℃
Static CO_2 Adsorption	%wt	≥18.00	≥18.00	≥18.00	≥18.00	250mmHg, 25℃
Bulk Density	g/ml	≥0.62	≥0.62	≥0.60	≥0.60	Tapped
Loss on ignition	%wt	≤1.50	≤1.50	≤1.50	≤1.50	575℃, 1hr
Loss on Attrition	%wt	≤0.10	≤0.10	≤0.30	≤0.30	~
Crush strength	N	≥30.00	≥80.00	≥30.00	≥70.00	Avg. 25 beads
Particle ratio	%	≥97.00	≥99.00	~	~	~

Recommended Application

1. Removal of CO_2 and moisture from air (air pre-purification) and other gases.
2. Separation of enriched oxygen from air.
3. Removal of mercaptans and hydrpogen sulphide from hydrocarbon liquid streams such as LPG, butane, propane etc.
4. Catalyst protection, removal of oxygenates from hydrocarbons (olefin streams)
5. Removal of n-chained compositions from aromatics

Packing:

55 gallon air-tight iron drum.
25 kg carton with inner PE bag.
※Other packing according to your requirement.

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