

XR404 Molecular Sieve 13X

Products Introduction:

XR404 **Molecular sieve 13X, also called zeolite 13x** is an **adsorbent** mainly used as catalyze carrier, co-adsorption of CO₂, H₂O and H₂S as desiccant for medical and air compressor systems, and can also be adjusted to fit other various industrial applications.

XR404 molecular sieve 13X is multipurpose, porous, high capacity alkali metal alumino-silicates in the spherical form. Zeolite 13X is the sodium form of the Type X crystal structure with pore diameters of approximately 10Å. They can adsorb all molecules that can be adsorbed by 3A, 4A, and 5A molecular sieve. Molecular sieve 13X(zeolite 13x) can also adsorb molecules such as aromatics and branched-chain hydrocarbons, which have large critical diameters. has stable and excellent static and kinetic adsorption capacity and higher crush strength, our molecular sieve 13X (Zeolite 13x)has been well acceptable by domestic and abroad cryogenic air separation company.

At the same time, Xiangrun Chemical has developed special and improved molecular sieve for cryogenic *air separation* process, which can increase adsorption time and decrease desorption temperature. Molecular sieve **13X APG** and XR416 ASU molecular sieve are good for air separation unit.

Characteristics:

- stable and excellent static and kinetic adsorption capacity
- higher crush strength

Property	Unit	Bead		Pellet		Note
		8x12	4x8	1/16"	1/8"	
Static Water Adsorption	%wt	≥26.00	≥26.00	≥26.00	≥26.00	RH50%, 25°C
Static CO ₂ Adsorption	%wt	≥17.50	≥17.50	≥17.50	≥17.50	250mmHg, 25°C
Crush Strength	N	≥30.00	≥80.00	≥30.00	≥70.00	Avg. 25 bead
Crush Strength	lbs	≥7.00	≥18.00	≥7.00	≥16.00	Avg. 25 beads

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Bulk Density	g/ml	≥0.62	≥0.62	≥0.62	≥0.62	Settle
Bulk Density	lbs/ft ³	≥38.00	≥38.00	≥38.00	≥38.00	Settled
Loss on ignition	%wt	≤1.50	≤1.50	≤1.50	≤1.50	575°C, 1hr
Particle Ratio	%	≥97.00	≥99.00	~	~	~

Application of molecular sieve 13x(ZEOLITE 13x):

1. Removal of CO₂ and moisture from air (air pre-purification) and other gases.
2. Separation of enriched oxygen from air.
3. Removal of mercaptans and hydrogen 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.

Storage:

- Avoid moisture, avoid scrolling, throw and sharp shocking during transportation, rainproof facilities should be readied..
- It should be stored in dry and ventilated warehouse to prevent contamination or moisture.

Packaging:

Type	Carton	Drum
Bead	25 kg/ 55 lb	140 kg/ 308 lb
Pellet	25 kg/ 55 lb	130 kg/ 286 lb

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