

Product: 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. The pore size 13X molecular sieve is about 10 Å . It can absorb any molecular smaller than 10 Å , mainly used as catalyze carrier, co-absorption of CO₂ and H₂O, H₂O and H₂S, as desiccant for medical and air compressor system, and can also be adjusted to fit other various applications.

Type 13X APG molecular sieve is specially designed to co-absorb CO₂ and H₂O for air cryo-separation industry. It has large capacity and faster adsorption speed for removal of CO₂ and H₂O to prevent the bed gelation, it is suitable for any air cryo-separation plants of any size and any types in the world

Application

- 1) Air refining (removing CO₂ and H₂O).
- 2) Removal of mercaptans and hydrogen sulphide from natural gas using patented Zeochem technology.
- 3) Removal of mercaptans and hydrogen sulphide from hydrocarbon liquid streams (LPG, butane, propane etc).
- 4) Air separation oxygen generation.
- 5) Special double glass (removing solvent and grease).

Regeneration

1. Removing the moisture

You May use the dry gas like nitrogen, the air, the hydrogen, the saturated hydrocarbon and heat the gas up to 150-320 °C . Firstly you need let the hot gas purge through the molecular sieve bed with the pressure of 0.3-0.5kg/m² for 3 to 4 hours. Then change to dry cold gas for 2-3 hour, at last you need isolate the molecular sieve from air and cool it to room temperature.

2. Removing the organics

You can use the water vapor to take the place of organics, then use the method 1.

You can also use the hot water vapor or inner gas pass through the molecular sieve under the temperature of 200-350°C (couldn't use the gas which will explore when to mix with the adsorbed organics).

3. Removing the gas

You can reduce the pressure to regenerate the molecular sieve.



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Technical Specification

Item	Unit	Target			
		Pellet		sphere	
Diameter	mm	1.6	3.2	1.7-2.5	3-5.0
Size ratio up to grade	% min	98	98	96	96
Bulk density	g/ml	0.68	0.65	0.70	0.70
Wear ratio	% max	0.2	0.2	0.2	0.2
Crushing strength	N min	30	45	35	85
Static water absorption capacity	% min	27	27	27	27
CO2 air disposal	NL/g min	18	18	18	18
strength	compression garrulous strength N/mm2	35	35	40	80
	Coefficient of variation	0.3	0.3	0.3	0.3
Moisture content	water % max 300°C	1	1	1	1