



Molecular Sieves 5A

Molecular Sieve 5A is an alkali aluminosilicate; it is the calcium form of the Type A crystal structure. Type 5A has an effective pore opening of 5 angstroms (0.5 nm). It will adsorb molecules with a kinetic diameter of less than 5 Angstrom and exclude molecules larger than 0.5nm. It is especially suitable for PSA adsorber applications where it may be used for the separation of normal- and iso-paraffins (C4 to C6 species), in PSA hydrogen purification and in oxygen concentrators.

Technical Specification

Property	Unit	Bead		Pellet		Note
		1.6-2.5	3.0-5.0	1/16"	1/8"	
Diameter	mm	1.6-2.5	3.0-5.0	1/16"	1/8"	
Static Water Adsorption	%wt	≥22.00	≥22.00	≥22.00	≥22.00	RH75%, 25°C
Bulk Density	g/ml	≥0.70	≥0.68	≥0.64	≥0.64	Tapped
Loss on Ignition	%wt	≤1.50	≤1.50	≤1.50	≤1.50	575°C, 1hr
Loss on Attrition	%wt	≤0.10	≤0.10	≤0.30	≤0.30	~
Crush Strength	N	≥30.00	≥80.00	≥30.00	≥80.00	Avg. 25 beads
Particle Ratio	%	≥97.00	≥99.00	~	~	~

Recommended Application

1. The strong ionic forces of the divalent calcium ion makes it an excellent adsorbent to remove water, CO₂, H₂S from sour natural gas streams, while decreasing COS formation. It can also adsorbs light mercaptans.
2. It is also used for the separation of normal- and iso-paraffins.
3. Production of high purity N₂, O₂, H₂ and inert gases from mixed gas streams.

Packing:

55 gallon air-tight iron drum,

25 kg carton with inner PE bag.

※Other packing according to your requirement.