



Molecular Sieve 4A

Molecular Sieve 4A is an alkali aluminosilicate; it is the sodium form of the Type A crystal structure. Molecular sieve 4A has an effective pore opening of about 4 angstroms (0.4nm). It will adsorb most molecules with a kinetic diameter of fewer than 4 angstroms and exclude those larger. Such adsorbable molecules include simple gas molecules such as oxygen, nitrogen, carbon dioxide, and straight-chain hydrocarbons. Branched-chain hydrocarbons and aromatics are excluded.

Technical Specification:

Properties	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	≥22.50	≥22.50	≥22.00	≥22.00	RH75%, 25°C
Bulk Density	g/ml	≥0.74	≥0.72	≥0.65	≥0.65	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	≥40.00	≥80.00	≥35.00	≥80.00	Avg. 25 beads
Particle Ratio	%	≥ 97.00	≥99.00	~	~	~

Recommended Application:

1. Drying and removing CO₂ from natural gas, LPG, air, inert and atmospheric gases.
2. Removal of hydrocarbons, ammonia, and methanol from gas streams (ammonia syngas treating).
3. Dehydration of refrigerant and air in buses, trucks, and locomotives' air-brake units.
4. Packed in small bags for packing desiccant for foods.

Packaging:

Steel drum - Size D58*H87CM