

Standard 4A



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Description

Standard 4A molecular sieve is used for dehydration and is readily able to remove water from both liquid and gas feed streams. This molecular sieve is commonly used to remove water and other contaminants from hydrogen, oxygen, carbon dioxide, and other air streams. The quality of this product allows its suitability for use in natural gas, cracked gas, and coal industries for deep dehydration or to dehydrate solvents, refrigerants, or purify argon gas.

Specifications

Molecular Sieve						
Standard 4A Molecular Sieve		Bead		Pellets		
Property	Unit	4x8 Mesh	8x12 Mesh	1/8 Inch	1/16 Inch	
Diameter	mm	2.5 - 5.0	1.6 - 2.5	3.0 - 3.5	1.5 - 2.0	
Attrition	wt%	≤0.1	≤0.1	≤0.5	≤0.5	
Bulk Density	lb/ft ³	43 - 48	46 - 51	40 - 45	41 - 46	
Crush Strength	lbf	≥18	≥9	≥18	≥9	
Moisture Content	wt%	≤1.5	≤1.5	≤1.5	≤1.5	
Static H ₂ O Adsorption	wt%	≥21.5	≥21.5	≥21.5	≥21.5	

Industries Used

argon production	natural gas dehydration	petroleum gas dehydration
cracked gas dehydration	ammonia gas purification	refrigerant drying
biofuel production	polar liquid drying (ethanol, methanol)	oil refining
dehydration of unsaturated hydrocarbons streams (cracked gas, acetylene, ethylene, propylene, butadiene)		

Storage

Molecular sieve is an adsorbent and should not be left exposed to open air to prevent water from being adsorbed before its intended use. This product should be stored in dry conditions with air-proof packaging.