



Description

5A Molecular Sieve, or Zeolite, has specialized crystals inside each bead with pore openings measuring about 5 Angstrom in diameter, which allows the selective adsorption of molecules such as water, carbon dioxide, and light weight hydrocarbons from feed gas. This molecular sieve can be used repeatedly after being regenerated in temperature swing applications and pressure swing applications.

This product is suitable for industrial processes and can be used in air prepurification units to purify atmospheric air, hydrogen, nitrogen, oxygen, and synthesis gas from mixed has streams. This zeolite can also be used for the deep dehydration of streams such as ammonia cracked gas, inert gases, and liquid petroleum gas applications.

Specifications

Molecular Sieve					
Standard 5A Molecular Sieve		Bead			
Property	Unit	4x8 Mesh	8x12 Mesh	1/8 Inch	1/16 Inch
Diameter	mm	2.5 - 5.0	1.6 - 2.5	3.0 - 3.3	1.5 - 1.8
Attrition	wt%	≤0.1	≤0.1	≤0.4	≤0.4
Bulk Density	lb/ft ³	43 - 47	45 - 49	42 - 46	43 - 47
Crush Strength	lbf	≥15	≥5	≥13	≥6
Moisture Content	wt%	≤1.5	≤1.5	≤1.5	≤1.5
Static CO ₂ Adsorption	wt%	≥15.0	≥15.0	≥15.0	≥15.0
Static H ₂ O Adsorption	wt%	≥21.5	≥21.5	≥21.0	≥21.0

Industries Used

cracked gas dehydration natural gas purification petroleum gas dehydration hydrogen production oxygen production synthesis gas dehydration inert gas purification paraffin separation

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.