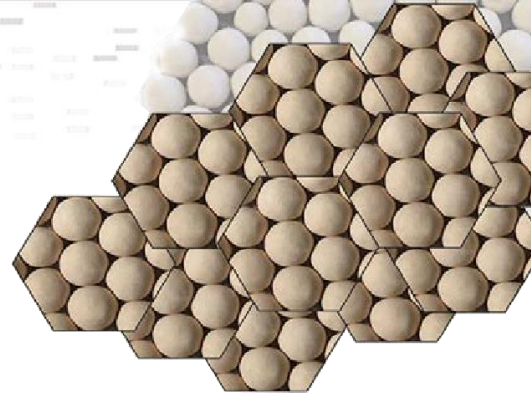


STANDARD 5A

MOLECULAR SIEVE



DESCRIPTION

Standard 5A molecular sieve can be used to remove water, carbon dioxide, and hydrocarbons from feed gas and is commonly used in air prepurification units. This molecular sieve can be used in PSA separation for paraffin and isoparaffin mixtures (n~C4~n~C6), and to purify air, oxygen, nitrogen, hydrogen, and synthesis gases from mixed gas streams. Standard 5A also has applications as a dehydrator in industries such as liquid petroleum gas, ammonia cracked gas, and other industrial inert gas purification applications.

CHEMICAL FORMULA



SPECIFICATIONS

Molecular Sieve					
Standard 5A		Beads			
Property	Unit	4x8 Mesh	4x8 *Avg	8x12 Mesh	8x12 *Avg
Diameter	mm	2.5 - 5.0	-	1.6 - 2.5	-
Bulk Density	g/mL (<i>lb/ft³</i>)	0.69-0.75 (<i>43.1-46.8</i>)	<i>0.72 (44.78)</i>	0.72-0.78 (<i>44.9-48.7</i>)	<i>0.73 (45.65)</i>
Crush Strength	N (<i>lbm*ft/s²</i>)	≥70 (<i>≥15.7</i>)	<i>127.1 (28.58)</i>	≥25 (<i>≥5.6</i>)	<i>41.8 (9.4)</i>
Static H ₂ O Adsorption	wt%	≥21.5	<i>22.13</i>	≥21.5	<i>21.62</i>
Static CO ₂ Adsorption	wt%	≥15.0	-	≥15.0	-
Attrition	wt%	≤0.1	<i>0.08</i>	≤0.1	<i>0.08</i>
Moisture Content	wt%	≤1.5	<i>0.39</i>	≤1.5	<i>0.50</i>
Packaging	Beads	1,000kg (<i>2,204.6lb</i>) / Super Sack		150kg (<i>330.7lb</i>) / Drum	

*Avg refers to a 12 month average of lot analyses

INDUSTRIES USED

natural gas dehydration
dehydration synthesis gas
inert gas purification

petroleum gas dehydration
oxygen production
paraffin separation

cracked gas
hydrogen production

STORAGE

As an adsorbent, molecular sieve should not be left exposed to open air and should be stored in dry conditions with air-proof packaging.

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