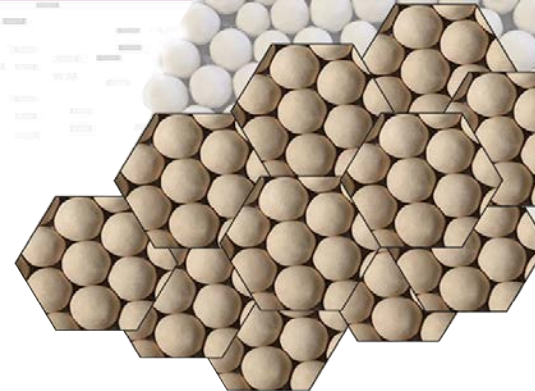


Standard 13X

Molecular Sieve



Description

Standard 13X molecular sieve is most commonly used to remove contaminants such as water, carbon dioxide, and hydrocarbons from feed gas in air pre-purification units prior to cryogenic air separation. This molecular sieve will also remove hydrogen sulfide, mercaptans, and high molecular weight sulfur compounds in LNG, LPG, and liquid hydrocarbon streams, such as propane and butane. *HYD10A* can also be used to deeply dehydrate compressed air, instrument air, inert gases, to purify ammonia synthesis gas, or to remove odorous sulfur compounds from aerosol propellants.

Specifications

Molecular Sieve		Beads			
HYD10A					
Property	Unit	4x8 Mesh	4x8 *Avg	8x12 Mesh	8x12 *Avg
Diameter	mm	2.36 - 4.76	-	1.68 - 2.36	-
Bulk Density	g/mL (<i>lb/ft³</i>)	0.65-0.71 (<i>40.6-44.3</i>)	<i>0.659 (41.1)</i>	0.66-0.72 (<i>41.2-44.9</i>)	<i>0.686 (42.84)</i>
Crush Strength	N (<i>lbm*ft/s²</i>)	≥80 (<i>≥18</i>)	<i>90.6 (20.36)</i>	≥30 (<i>≥6.7</i>)	<i>33.5 (7.52)</i>
Static H ₂ O Adsorption	wt%	≥26.0	<i>27.80</i>	≥26.0	<i>28.46</i>
Static CO ₂ Adsorption	wt%	≥17.5	-	≥17.5	-
Attrition	wt%	≤0.1	<i>0.07</i>	≤0.1	<i>0.07</i>
Moisture Content	wt%	≤1.5	<i>0.40</i>	≤1.5	<i>0.51</i>
Packaging	Beads	1,000kg (<i>2,204.6lb</i>) / Super Sack		140kg (<i>308.6lb</i>) / Drum	

*Avg refers to a 12 month average of lot analyses

Industries Used

natural gas
inert gas
air separation
large scale PSA

petroleum gas
ammonia synthesis gas
industrial air
cryogenic pressure swing adsorption

refining
cracked gas
aerosol

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. This product should not be exposed to temperatures exceeding 350°C (*662°F*).

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