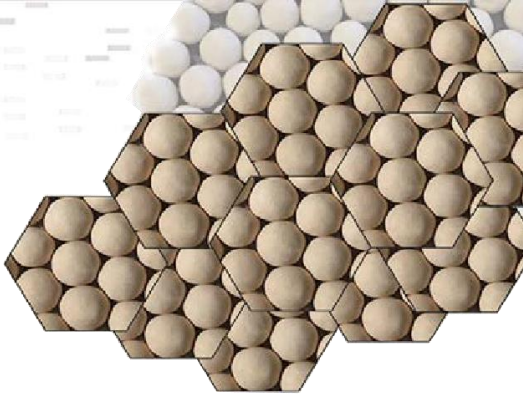
HYD10A

MOLECULAR SIEVE



DESCRIPTION

HYD10A 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.

CHEMICAL FORMULA

$(Ɏ)_a \times [(AlO_2)_a(SiO_2)_b] \times cH_2O$ *(Ɏ = Na)*

SPECIFICATIONS

Molecular Sieve					
HYD10A		**Beads**			
Property	**Unit**	**4x8 Mesh**	***4x8 *Avg***	**8x12 Mesh**	***8x12 *Avg***
Diameter	mm	2.36 - 4.76	-	1.68 - 2.36	-
Bulk Density	g/mL *(lb/ft^3)*	0.65-0.71 *(40.6-44.3)*	*0.659 (41.1)*	0.66-0.72 *(41.2-44.9)*	*0.686 (42.84)*
Crush Strength	N *(lbm*ft/s^2)*	≥80 *(≥18)*	*90.6 (20.36)*	≥30 *(≥6.7)*	*33.5 (7.52)*
Static H_2O Adsorption	wt%	≥26.0	*27.80*	≥26.0	*28.46*
Static CO_2 Adsorption	wt%	≥17.5	-	≥17.5	-
Attrition	wt%	≤0.1	*0.07*	≤0.1	*0.07*
Moisture Content	wt%	≤1.5	*0.40*	≤1.5	*0.51*
Packaging	Beads	1,000kg *(2,204.6lb)* / Super Sack		140kg *(308.6lb)* / Drum	

**Avg refers to a 12 month average of lot analyses*

INDUSTRIES USED

natural gas
inert gas
industrial air
aerosol
petroleum gas
large scale PSA
ammonia synthesis gas
cryogenic pressure swing adsorption
refining
air separation
cracked gas

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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