



HYD05C

MOLECULAR SIEVE

DESCRIPTION

HYD05C molecular sieve is manufactured for use in air prepurification units to remove water, carbon dioxide, and other contaminants from feed gas. The removal of these contaminants is essential for compressed air systems and for creating high purity gas streams. This molecular sieve offers a high adsorption capacity for impurities, especially water.

- used to purify air feed gas
- capable of removing water, carbon dioxide, light hydrocarbons, and more
- allows gas to be further separated or otherwise used in compressors
- offers an advantageous adsorption capacity for water

CHEMICAL FORMULA



SPECIFICATIONS

Molecular Sieve							
HYD05C		Beads				Pellets	
Property	Unit	4x8 Mesh	4x8 *Avg	8x12 Mesh	8x12 *Avg	1/16 Inch	1/8 Inch
Diameter	mm	2.5 - 5.0	-	1.6 - 2.5	-	1.5 - 1.8	3.0 - 3.3
Bulk Density	g/mL (lb/ft ³)	0.69-0.75 (43.1-46.8)	0.72 (44.78)	0.72-0.78 (44.9-48.7)	0.73 (45.65)	0.69-0.75 (43.1-46.8)	0.68-0.74 (42.4-46.2)
Crush Strength	N (lbm*ft/s ²)	≥70 (≥15.7)	127.1 (28.58)	≥25 (≥5.6)	41.8 (9.4)	≥30 (≥6.7)	≥60 (≥13.5)
Static Water Adsorption	wt%	≥21.5	22.13	≥21.5	21.62	≥21.0	≥21.0
Static CO ₂ Adsorption	wt%	≥15.0	-	≥15.0	-	≥15.0	≥15.0
Attrition	wt%	≤0.1	0.08	≤0.1	0.08	≤0.4	≤0.4
Moisture Content	wt%	≤1.5	0.39	≤1.5	0.50	≤1.5	≤1.5
Packaging Options		1,000kg (2,204.6lb) / Super Sack; 150kg (330.7lb) / Drum					

*Avg refers to a running average of lot analyses

INDUSTRIES USED

air separation
inert gas purification

compressed air

feed gas dehydration

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.

CONNECT WITH US...

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ISO 9001:2008



ISO 14001:2004

