

4A and 13X Molecular Sieves

Product Family: High quality, multi-purpose adsorbents based on 4A and 13X zeolites.

Typical Applications: dehydration and CO₂ removal from natural gas, LPG, air sweetening and desulfurizing of natural gas, PSA hydrogen purification, air purification upstream of PSA units and compressors, syngas purification

4A Molecular Sieves (Na-A)

Property		Round Bead		Cylindrical Pellet		Notes
Diameter	mm	1.6-2.5	3-5	1.6	3.2	
Static H ₂ O Adsorption	wt%	> 21.5	> 21.5	> 21.5	> 21.5	R.H. 50%, 25 C.
Bulk Density	g/ml	> .70	> .70	> .65	> .65	Settled
Ignition Loss (LOI)	wt%	< 1.5	< 1.5	< 1.5	< 1.5	575 C, 1 hr.
Attrition Loss (LOA)	wt%	< .1	< .1	< .2	< .2	ASTM
Crush Strength	N	> 40	> 80	> 35	> 80	Anvil

13X Molecular Sieves (Na-X)

Property		Round Bead		Cylindrical Pellet		Notes
Diameter	mm	1.6-2.5	3-5	1.6	3.2	
Static H ₂ O Adsorption	wt%	> 26	> 26	> 26	> 26	R.H. 50%, 25 C.
Static CO ₂ Adsorption	wt%	> 18	> 18	> 18	> 18	250mm Hg, 25C
Bulk Density	g/ml	> .65	> .65	> .62	> .62	Settled
Ignition Loss (LOI)	wt%	< 1.5	< 1.5	< 1.5	< 1.5	575 C, 1 hr.
H ₂ O Content	wt%	< 0.5	< 0.5	< 0.5	< 0.5	Karl Fischer
Attrition Loss (LOA)	wt%	< .1	< .1	< .2	< .2	ASTM
Crush Strength	N	> 30	> 80	> 40	> 70	Anvil

Packaging options: 25 kg carton with inner polyethylene bag
55 gallon drum with polyethylene liner
Other packaging, including jumbo bags, upon request

EURECAT - Zeolites, Molecular Sieves and Custom Catalysts