

Texalan Molecular Sieve Zeolite

— Molecular Sieve 4A

Texalan

Molecular Sieve 4A is an alkali aluminosilicate; it is the sodium form of the Type A crystal structure. Molecular sieve 4A has an effective pore opening of about 4 angstroms (0.4nm). It will adsorb most molecules with a kinetic diameter of less than 4 angstroms and exclude those larger. Carbons and aromatics are excluded.

Item	Unit	Molecular Sieve 4A 8*12 Mesh	
Bead Size	mm	1.6-2.5	
Bulk Density	g/ml \geq	0.70-0.82	
Equilibrium Water Capacity @ 25°C	wt% \geq	20.5-22.5	
Equilibrium Methanol Capacity	wt% \geq	15.0	
Heat of Adsorption	BTU/lb of H ₂ O	1800.0	
Crush Strength	Point Contact	N \geq	30-80
	Variation Coefficient	-	0.3
Attrition Rate	wt% \leq	0.1	
Size Qualification	% \geq	98.0	
Package Moisture	wt% \geq	1.5	
The interval value of the indexes above are on the basis of the different grade of Molecular Sieve 4A			

Recommended Application

1. Drying and removing of CO₂ from natural gas, LPG, air, cracked gas, inert and atmospheric gases, etc.
2. Removal of hydrocarbons, ammonia and methanol from gas streams.
3. Dehydration of refrigerant and air in the air break units of buses, trucks and locomotives.
4. Static drying of insulating glass units, whether air filled or gas-filled.
5. Dehydration of highly polar compounds, such as methanol and ethanol.
6. Dehydration of unsaturated hydrocarbons (e.g. ethylene, propylene, butadiene).

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