

Texalan Molecular Sieve Zeolite

— Molecular Sieve 3A

Texalan

Molecular Sieve 3A is an alkali metal aluminosilicate, it is the potassium form of the type A crystal structure. Type 3A has an effective pore opening of about 3 angstroms (0.3nm). It adsorbs molecules with effective diameters smaller than approximately 3 angstroms. But excludes molecules such as unsaturated hydrocarbons.

Item	Unit	Molecular Sieve 3A 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	19.0-21.0	
Equilibrium Ethylene Capacity	mg/g \leq	3.0	
Heat of Adsorption	BTU/lb of H ₂ O	1800.0	
Crush Strength	Point Contact	N \geq	20-58
	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 3A			

Recommended Application

1. Drying of unsaturated hydrocarbons (e.g. ethylene, propylene, butadiene).
2. Cracked Gas Drying.
3. Drying of natural gas, if COS minimization is essential, or a minimum co-adsorption of hydrocarbons is required.
4. Drying of highly polar compounds, such as methanol and ethanol.
5. Static, dehydration of insulating glass units, whether air filled or gas-filled.
6. Refrigerant Drying.
7. Moisture removal in PU Plastic or Paint.

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