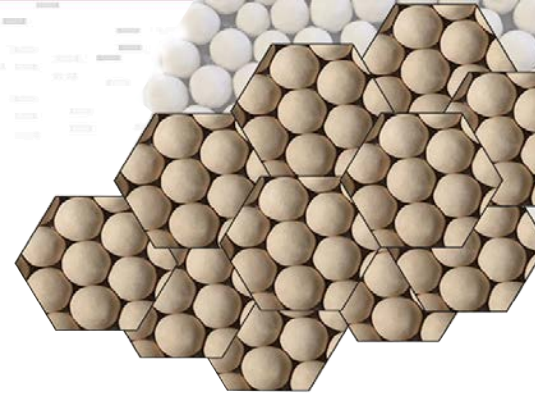


Standard 3A

Molecular Sieve



Description

Standard 3A molecular sieve is most commonly used for dehydration and can be applied in both PSA and VSA units to remove H₂O. It has a quick mass transfer rate, high mechanical strength, low attrition, and can minimize byproduct formation. *Standard 3A* is a versatile molecular sieve that has a wide range of applications including those in natural and petroleum gas dehydration, refrigerant drying, and for use in insulated glass.

Specifications

Molecular Sieve		Beads			
Standard 3A		4x8 Mesh	4x8 *Avg	8x12 Mesh	8x12 *Avg
Property	Unit				
Diameter	mm	2.5 - 5.0	-	1.6 - 2.5	-
Bulk Density	g/mL (<i>lb/ft³</i>)	0.70-0.76 (<i>43.7-47.4</i>)	<i>0.72 (45.19)</i>	0.72-0.76 (<i>44.9-48.7</i>)	<i>0.75 (46.73)</i>
Crush Strength	N (<i>lbm*ft/s²</i>)	≥90 (<i>≥18</i>)	<i>113.6 (25.54)</i>	≥30 (<i>≥6.7</i>)	<i>40.4 (9.08)</i>
Static H₂O Adsorption	wt%	≥21.0	<i>21.49</i>	≥21.0	<i>21.47</i>
Attrition	wt%	≤0.1	<i>0.07</i>	≤0.1	<i>0.07</i>
Moisture Content	wt%	≤1.0	<i>0.17</i>	≤1.0	<i>0.21</i>
Packaging	Beads	1,000kg (<i>2,204.6lb</i>) / Super Sack		150kg (<i>330.7lb</i>) / Drum	

*Avg refers to a 12 month average of lot analyses

Industries Used

natural gas dehydration petroleum gas dehydration refrigerant drying
 biofuel production oil refining insulated glass
 dehydration of unsaturated hydrocarbons streams (cracked gas, acetylene, ethylene, propylene, butadiene)
 adsorption of NH₃ and H₂O from N₂/H₂ streams
 polar liquid drying (ethanol and methanol)
 plastic, paint, sealant, glue

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. This product should not be exposed to temperatures exceeding 350°C (662°F).

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