

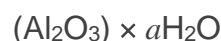
STANDARD ACTIVATED ALUMINA

ACTIVATED ALUMINA

DESCRIPTION

Standard Activated Alumina is commonly used to adsorb gases and liquids and can be used as a catalyst. Standard activated alumina can be used as a filter to remove contaminants from various feed streams, such as fluorine from drinking water and drying liquids and gases. This activated alumina offers a high adsorption capacity while maintaining durability. This product is ideal for pressure swing adsorption applications and is suitable for bulk dehydration and cryogenic air purification including air dryers, carbon dioxide, hydrocarbon streams, nitrogen, and oxygen.

CHEMICAL FORMULA



SPECIFICATIONS

Activated Alumina							
Standard Activated Alumina		Beads					
Property	Unit	1/8 Inch	1/8 *Avg	3/16 Mesh	3/16 *Avg	1/4 Inch	1/4 *Avg
Particle Size	mm	2.36 - 4.0	3.3 - 3.9	4.0 - 6.0	5.0 - 5.6	5.0 - 7.0	5.6 - 6.2
Qualified Size Ratio	%	≥90	-	≥90	-	≥90	-
Surface Area	m ² /g	≥300	343.6	≥300	322.58	≥300	315.2
Pore Volume	cc/g	≥0.40	-	≥0.40	-	≥0.40	-
Bulk Density	g/mL (lb/ft ³)	0.74 ±0.03 (46.2 ±2)	0.729 (45.5)	0.72 ±0.03 (45.0 ±2)	0.719 (44.9)	0.73 ±0.03 (45.6 ±2)	0.715 (44.6)
Crush Strength	N (lbm*ft/s ²)	≥134 (≥30.0)	175.6 (39.5)	≥160 (≥36.0)	283.6 (63.8)	≥200 (45.0)	322.6 (72.5)
H ₂ O Adsorption Capacity	wt%	RH75%: ≥22.0 RH60%: ≥17.0	-	≥17.0	-	≥17.0	-
LOI 300°C - 1,000°C (570°F - 1,835°F)	wt%	≤8.0	-	≤8.0	-	≤8.0	-
Loss on Ignition 0°C - 300°C (32°F - 570°F)	wt%	≤2.0	-	≤2.0	-	≤2.0	-
Attrition	wt%	≤0.4	0.26	≤0.4	0.27	≤0.4	0.22
Packaging	Beads	1,000kg (2,204.6lb) / Super Sack		150kg (330.7lb) / Drum		25kg (55.1lb) / Bag	

INDUSTRIES USED

*Avg refers to a 12 month average of lot analyses

natural gas dehydration petroleum gas dehydration oil refining
refrigerant drying biofuel production insulated glass
dehydration of unsaturated hydrocarbons (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, rubbers

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.

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