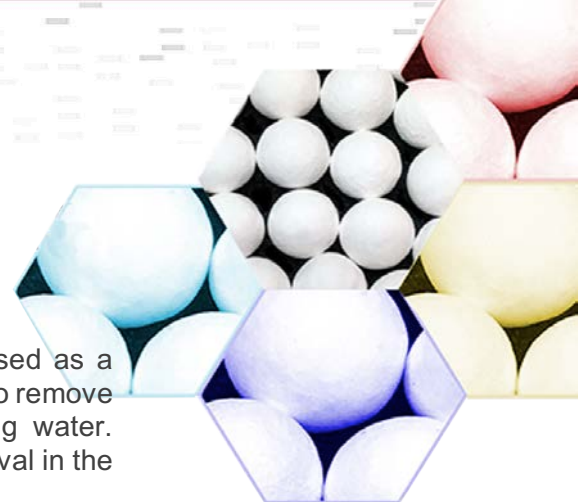


HYAA300

Standard Activated Alumina

Description

HYAA300 is commonly used to adsorb gases and liquids and can be used as a catalyst or carrier. *Standard activated alumina* is frequently used as a filter to remove contaminants from various feed streams, such as fluorine from drinking water. Activated alumina is used as a catalyst for applications such as sulfur removal in the Claus Process.



Specifications

Activated Alumina		Beads					
HYAA300		1/8 Inch	1/8 *Avg	3/16 Mesh	3/16 *Avg	1/4 Inch	1/4 *Avg
Property	Unit						
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	

*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 (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, activated alumina should not be left exposed to open air and should be stored in dry conditions with air-proof packaging.

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