Standard Activated Alumina



Description

Activated alumina is used to adsorb gases and liquids and is frequently used as a filter to remove contaminants from various feed streams, such as fluorine from drinking water. Activated Alumina is useful for bulk moisture removal and suitable for removing humidity from air. Activated alumina can also be used as a catalyst.

| Activated Alumina | | | | | | |
|-------------------------------------|--------------------|-----------|-----------|------------------------------|-----------|-----------|
| | | Bead | | | | |
| Property | Unit | 1/4 Inch | 3/16 Inch | 1/8 Inch | 1/16 Inch | 7x14 Mesh |
| Particle Size | mm | 5.0 - 7.0 | 4.0 - 6.0 | 2.36 - 4.0 | - | - |
| Attrition | wt% | ≤0.4 | ≤0.4 | ≤0.4 | - | - |
| Bulk Density | lb/ft ³ | 45.6 ±2 | 45.0 ±2 | 46.2 ±2 | 49.8 ±2 | 49.8 ±2 |
| Crush Strength | lbf | 45.0 | ≥36.0 | ≥30 | ≥4.5 | ≥4.5 |
| Static Water Adsorption Capacity | wt% | ≥17.0 | ≥17.0 | RH75%: ≥22.0 RH60%: ≥17.0 | ≥15.0 | ≥15.0 |
| Loss On Ignition 570°F - 1,835°F | wt% | ≤8.0 | ≤8.0 | ≤8.0 | ≤8.0 | ≤8.0 |
| Loss on Ignition 32°F - 570°F | wt% | ≤2.0 | ≤2.0 | ≤2.0 | ≤4.0 | ≤4.0 |
| Pore Volume | cc/g | ≥0.40 | ≥0.40 | ≥0.40 | ≥0.30 | ≥0.30 |
| Surface Area | m²/g | ≥300 | ≥300 | ≥300 | ≥285 | ≥285 |

Specifications

Industries Used

natural gas dehydrationpetroleum gas dehydrationrefrigerant dryingbiofuel productionoil refininginsulated glassdehydration of unsaturated hydrocarbons streams (cracked gas, acetylene, ethylene, propylene, butadiene)adsorption of NH3 and H2O from N2/H2 streamspolar liquid drying (ethanol and methanol)plastic, paint, sealant, glue

Storage

Activated alumina is an adsorbent and should not be left exposed to open air to prevent water from being adsorbed before its intended use. This product should be stored in dry conditions with air-proof packaging.