

HYAA300

FOR NATURAL GAS DEHYDRATION

DESCRIPTION

HYAA300 is manufactured to remove water from saturated natural gas streams. Water must be removed before natural gas can be processed and this alumina can offer the bulk dehydration capabilities required to minimize the presence of water. This activated alumina is often used in combination with molecular sieve and can function as a guard layer.

- used to dehydrate saturated natural gas streams
- allows natural gas to be further processed and cryogenically separated
- typically used in combination with molecular sieve
- offers advantageous adsorption capacity for water

CHEMICAL FORMULA

$(Al_2O_3) \times aH_2O$

SPECIFICATIONS

| Activated Alumina | | | | |
|---|---|------------------------------|-------------------------|-------------------------|
| HYAA300 | | Beads | | |
| Property | Unit | 1/8 Inch | 3/16 Mesh | 1/4 Inch |
| Particle Size | mm | 2.36 - 4.0 | 4.0 - 6.0 | 5.0 - 7.0 |
| Qualified Size Ratio | % | ≥90 | ≥90 | ≥90 |
| Surface Area | m ² /g | ≥300 | ≥300 | ≥300 |
| Pore Volume | cc/g | ≥0.40 | ≥0.40 | ≥0.40 |
| Bulk Density | g/mL (lb/ft ³) | 0.74 ±0.03 (46.2 ±2) | 0.72 ±0.03 (45.0 ±2) | 0.73 ±0.03 (45.6 ±2) |
| Crush Strength | N (lbm*ft/s ²) | ≥134 (≥30.0) | ≥160 (≥36.0) | ≥200 (45.0) |
| Water Adsorption Capacity | wt% | RH75%: ≥22.0 RH60%: ≥17.0 | ≥17.0 | ≥17.0 |
| Loss On Ignition 300°C-1,000°C (570°F-1,835°F) | wt% | ≤8.0 | ≤8.0 | ≤8.0 |
| 0°C-300°C (32°F-570°F) | wt% | ≤2.0 | ≤2.0 | ≤2.0 |
| Attrition | wt% | ≤0.4 | ≤0.4 | ≤0.4 |
| Packaging Options | 1,000kg (2,204.6lb) / Super Sack; 150kg (330.7lb) / Drum; 25kg (55.1lb) / Bag | | | |

INDUSTRIES USED

natural gas dehydration

natural gas liquids dehydration

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.

CONNECT WITH US...

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