

HY-H

FOR NATURAL GAS DEHYDRATION

DESCRIPTION

HY-H is manufactured for use in controlling the dew point of hydrocarbons by reducing the presence of water. Controlling the dew point of hydrogen allows them to be separated into gasoline and natural gas fractions while also being dried in the process. This silica product is able to be exposed to saturated hydrocarbon streams without causing the beads to pop or crack.

- used to pre-purify natural gas streams, often for transportation purposes
- allows hydrocarbons to be separated based on their unique dew points
- chemically stable, flame resistant, insoluble in most solvents except strong alkalis and HF
- offers higher capacity (by 6-10%) in high humidity and a higher thermal stability than silica gel

CHEMICAL FORMULA



SPECIFICATIONS

| Silica Alumina | | | |
|--------------------------------|----------------------------|---|----------------------------|
| HY-H | | Beads | |
| Property | Unit | 6x18 Mesh and 5x10 Mesh | Typical Values (5x10 Mesh) |
| Particle Size | mm | 1.0-3.0 and 2.0-4.0 | 2.0 - 4.0 |
| Al ₂ O ₃ | % | 0.5 - 5.0 | 3.0 |
| Surface Area | m ² /g | 600 - 800 | 694 |
| Adsorption Capacity | wt% | ≥6.0 | - |
| RH=10% 25°C (77°F) | wt% | ≥9.0 | 9.9 |
| RH=20% 25°C (77°F) | wt% | ≥18.0 | 19.8 |
| RH=40% 25°C (77°F) | wt% | ≥36.0 | - |
| RH=60% 25°C (77°F) | wt% | ≥42.0 | 46.4 |
| RH=80% 25°C (77°F) | wt% | ≥650 (≥40.6) | 721 (45.0) |
| Bulk Density | g/L (lb/ft ³) | ≥150 (≥33.7) | 186 (41.8) |
| Crush Strength | N (lbm*ft/s ²) | 4 - 8 | 4 |
| pH | - | 0.4-0.6 | 0.46 |
| Pore Volume | cc/g | ≤3.0 | 2.2 |
| Loss on Ignition | wt% | ≥80 | 86 |
| Ratio of Particles | % | 500kg (1,102.3lb) / Super Sack; 150kg (330.7lb) / Drum; 25kg (55.1lb) / Bag | |

INDUSTRIES USED

- | | | |
|------------------------------|-------------------------------|-------------------------------|
| dehydration | hydrocarbon dew point control | light hydrocarbon separation |
| liquefied natural gas drying | natural gas conditioning | peak shaving and liquefaction |

STORAGE

This product should not be left exposed to open air and should be stored in dry conditions with air-proof packaging.

CONNECT WITH US...

Hengye Inc.

11999 Katy Frwy, Suite 588

Houston, Texas 77079

Office (832) 288-4288

Fax (832) 288-4230

info@hengyeinc.com



HENGYE



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ISO 14001:2004