

BASF Durasorb® HD

BASF Durasorb® is a family of products developed in combination with proprietary system design software to complement each other for the purification of Natural Gas streams. Based on the long and successful history of BASF Sorbead® for hydrocarbon and water dewpointing, BASF Durasorb® products are designed to work together to provide optimum solutions for the most difficult gas processing conditions, including retrofit of existing units.

Product Applications

Durasorb® HD is a water-resistant aluminosilicate gel adsorbent with high capacity for impurities. Durasorb® HD is used as an active adsorbent layer in LNG and NGL pre-treatment applications.

Durasorb® HD is in the form of hard, spherical beads, with a very high resistance to crushing and a low attrition rate. Durasorb® HD is resistant to damage from liquid water and hydrocarbon carry-over events. These properties provide a robust material, resulting in longer bed life and reduced operating costs.

Durasorb® HD has high resistance to hydrothermal aging and low regeneration temperature, making it ideal for applications where retrograde condensation and refluxing occur during adsorbent regeneration. Due to these unique properties, the use of Durasorb® HD increases the overall reliability of the system.

Durasorb® HD is used in combination with other products in the Durasorb® portfolio to create a custom-tailored installation that ensures most efficient removal of heavy hydrocarbons and water from natural gas.

Typical Properties

Chemical Composition	97 wt % SiO ₂ 3 wt % Al ₂ O ₃
Equilibrium Capacity for Water Vapor at 25° C	4 wt % at 10 % R.H. 36 wt % at 80 % R.H.
Packed Bulk Density	0.67 kg/l
Crush Strength	130 N
Attrition Rate	<0.1 wt %
Liquid Water Resistant	Yes

* These indicative properties do not represent process capabilities.

Typical distribution of grain size

2.0 – 5.0 mm

Packaging

- 750 kg (1,653 lbs) Big bag
- 130 kg (287 lbs) Steel drum

About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts and adsorbents, refinery catalysts and custom catalysts. In the process catalysts business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

The division's portfolio also includes battery materials and recycling solutions, as well as environmental catalysts and metal solutions. Customers from a variety of industries including Automotive & Transportation, Chemicals, Plastics or Energy & Resources benefit from our innovative solutions. Further information on BASF's Catalysts division is available on the Internet at www.catalysts.basf.com.

BASF - We create chemistry

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