

# 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

	97 wt % SiO <sub>2</sub>
Chemical Composition	3 wt % Al <sub>2</sub> O <sub>3</sub>
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's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

**BASF - We create chemistry**

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