

Durasorb[®] HR4

BASF Durasorb[®] is a family of products developed in combination with proprietary 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 dew point control, 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

BASF Durasorb[®] HR4 is a synthetic crystalline aluminosilicate 4A molecular sieve with a uniform pore structure. Durasorb[®] HR4 is an innovative molecular sieve, specially created for higher stability in the toughest environments. BASF Durasorb[®] HR4 exhibits high water adsorption capacity at low partial pressures and at temperatures up to 100 °C.

Durasorb[®] HR is used in combination with Durasorb[®] HD in a dehydration unit. This custom-tailored, layered installation ensures natural gas dehydration under most severe conditions. The design reliably solves retrograde condensation and regeneration-reflux problems, maximizing the overall performance and extending the life of the bed.

Typical Properties

Bulk Density, compacted (g/L)	770
Attrition (% wt)	<0.2
Crush Strength (N)	>50
Water Adsorption Capacity*, 55% relative humidity, 20 °C (% wt)	>20

These indicative properties do not represent process capabilities nor specifications.

Typical distribution of grain size

- 1.6 – 2.5 mm
- 2.5 – 5.0 mm

Packaging

- 800 kg Big bag
- 135 kg 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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