

Durasorb[®] HRL5

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 dew pointing, 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[®] HRL5 is a synthetic crystalline aluminosilicate, high ion exchanged 5A molecular sieve with a uniform pore structure. Durasorb[®] HRL5 is an innovative molecular sieve, specially designed for higher stability in liquid streams. Durasorb[®] HRL5 is used for drying and desulphurization (H₂S) of natural gas.

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.

Regeneration of BASF Durasorb[®] HRL5 may be carried out by increasing the temperature and/or reducing the pressure or using a suitable purge gas, respectively.

Typical Properties

Bulk Density, compacted (g/L)	700 – 780
Attrition (% wt)	Max 0.2
Crush Strength (N)	Min 25
Moisture Content (% wt)	Max 1.0
Water Adsorption Capacity*, 55% relative humidity, 20°C (% wt)	Min 20.5

These indicative properties do not represent process capabilities nor specifications.
* Sample activated.

Typical distribution of grain size

- 1.6 – 2.5 mm

Packaging

- 450 – 850 kg big bags
- 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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