

Durasorb™ HR3

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 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™ HR3 is a synthetic crystalline aluminosilicate 3A molecular sieve with a uniform pore structure. Durasorb™ HR3 is an innovative molecular sieve, specially created for higher stability in the toughest environments. Durasorb™ HR3 is used for drying of natural gas in the presence of trace quantities of H₂S and CO₂. The design of Durasorb™ HR3 minimizes the common formation of COS in these situations.

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)	765
Attrition (% wt)	<0.2
Crush Strength (N)	>25
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 bags
- 135 kg 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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