

Durasorb™ HR5

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™ HR5 is a synthetic crystalline aluminosilicate 5A molecular sieve with a uniform pore structure. Durasorb™ HR5 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™ HR5 may be carried out by increasing the temperature and/or reducing the pressure or using a suitable purge gas, respectively.

Typical distribution of grain size

- 1.6 – 2.5 mm

Packaging

- 450 – 850 kg Big bags
- 135 kg Steel drum

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.

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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