

BASF Durasorb AR[®]

BASF Durasorb[®] is a family of products developed in combination with proprietary system design software 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[®] AR is a high performance, extremely robust silica gel adsorbent for simultaneous control of hydrocarbon dewpointing and dehydration of natural gas streams. Durasorb[®] AR is an acid resistant material specially developed for improved performance in high acid gas conditions.

Durasorb[®] AR is an adsorbent with high water capacity and above-average drying capacity with a low desorption energy requirement. Due to the unique properties of Durasorb[®] AR, the product experiences minimal product loss from attrition, demonstrates high mechanical strength, and leads to reliable operation.

Durasorb[®] AR 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.

Physical Properties

Chemical Composition	96 wt % SiO ₂ 4 wt % AL ₂ O ₃
Surface Area (BET)	700 m ² /g
Equilibrium Capacity for	6 wt% at 10% R.H. 36 wt% at 80% R.H.
Water Vapor at 25° C	
Packed Bulk Density	0.8 kg/L
Crushing Strength	170 N

* These indicative properties do not represent process capabilities.

Typical distribution of grain size

- 2.0 – 5.0 mm

Packaging

- 850 kg Big bag
- 150 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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