

# Durasorb<sup>®</sup> HC

## Aluminosilicate gel adsorbent for HHC removal

**BASF Durasorb<sup>®</sup> 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<sup>®</sup> for hydrocarbon (HHC) and water dewpointing, BASF Durasorb<sup>®</sup> 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<sup>®</sup> HC is a high performance, extremely robust silica gel adsorbent for simultaneous control of hydrocarbon dewpointing and dehydration of natural gas streams.

Durasorb<sup>®</sup> HC is an aluminosilicate gel in the form of hard, spherical beads, with a very high resistance to crushing and a low attrition rate. Durasorb<sup>®</sup> adsorbents have a longer life than most other adsorbents thus reduce operating costs.

Durasorb<sup>®</sup> HC is used in combination with Durasorb<sup>®</sup> HD in a Hydrocarbon Removal Unit (HRU), a custom-tailored installation that ensures most efficient removal of heavy hydrocarbons and water from natural gas. The design solves most common retrograde condensation and regeneration-reflux problems, thereby maximizing the overall performance and the life of the bed.

### Typical distribution of grain size

2.0-5.0 mm

### Packaging

- 850 kg Big bag
- 150 kg Steel drum

### Physical Properties

<b>Chemical Composition</b>	96 wt % SiO <sub>2</sub> 4 wt % Al <sub>2</sub> O <sub>3</sub>
<b>Surface Area (BET)</b>	700 m <sup>2</sup> /g
<b>Pore Volume</b>	0.45 ml/g
<b>Equilibrium capacity for water vapor at 25°C</b>	6 wt% at 10% RH 40 wt% at 80% RH
<b>Crush Strength</b>	170 N
<b>Attrition Rate</b>	0.1 wt%

These indicative properties do not represent process capabilities nor specifications.

## 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.

BASF's process catalysts business is part of the company's Performance Chemicals division. The division's portfolio also includes fuel and lubricant solutions, as well as oilfield chemicals and mining solutions. Customers from a variety of industries including Chemicals, Plastics, Consumer Goods, Energy & Resources and Automotive & Transportation benefit from our innovative solutions.

**BASF - We create chemistry**



<https://chemical-catalysts-and-adsorbents.basf.com/global/en/adsorbents>

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