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.

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>700 – 780</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Density, compacted (g/L)</td>
<td></td>
</tr>
<tr>
<td>Attrition (% wt)</td>
<td>Max 0.2</td>
</tr>
<tr>
<td>Crush Strength (N)</td>
<td>Min 25</td>
</tr>
<tr>
<td>Moisture Content (% wt)</td>
<td>Max 1.0</td>
</tr>
<tr>
<td>Water Adsorption Capacity*, 55% relative humidity, 20°C (% wt)</td>
<td>Min 20.5</td>
</tr>
</tbody>
</table>

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

Americas
BASF Corporation
Phone: +1-732-205-5000
Email: catalysts-americas@basf.com

Asia Pacific
BASF (China) Company Limited
Phone: +86-21-2039 2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa
BASF Services Europe GmbH
Phone: +49-30-20055000
Email: catalysts-europe@basf.com

Durasorb and Sorbead are trademarks of BASF

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2015 BASF