CL-750

Promoted Chloride Adsorbent

BASF CL-750 is a spherical surface modified adsorbent, custom formulated to provide optimum adsorption of HCl from vapor and liquid phase process streams. It is covered by U.S. patent number 5,316,998. BASF CL-750 is available in nominal sizes of 1/16”, 1/8” and 3/16” spheres.

Product Application

1. BASF CL-750 is particularly appropriate for use in vapor phase chloride traps in catalytic reforming processes where optimum HCl adsorption capacity and minimization of polymer (“gum”) formation is desirable. The high macroporosity of BASF CL-750 improves diffusion rates to assure high HCl adsorption capacity.

2. Liquid naphtha reformate streams often contain sufficient amounts of HCl which cause corrosion and NH₄Cl plugging problems in heat exchangers, pumps, compressors and stabilizer towers. BASF CL-750 is an excellent HCl scavenger for these streams at both ambient and elevated temperatures. The use of BASF CL-750 chloride adsorbent allows continuous operation without the problems associated with water washing of chloride deposits in process equipment.

3. With its superior adsorption capacity and high porosity, CL-750 is appropriate for the removal of HCl and free chloride ions from a variety of vapor and liquid phase streams in numerous petrochemical production processes.

Available Packaging

- 2000 lb super sacks
- 330 lb steel drums

Typical Chemical Composition (%)

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al₂O₃ + surface modifier (inorganic, non-toxic)</td>
<td>95.5</td>
</tr>
<tr>
<td>SiO₂</td>
<td>0.015</td>
</tr>
<tr>
<td>LOI (1000°C)</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Pore Volume, cc/g</td>
<td>0.50</td>
</tr>
<tr>
<td>Bulk Density, lbs/ft³ (kg/m³)</td>
<td>47.5 (760)</td>
</tr>
<tr>
<td>Crush Strength, (5 mesh eq), lbs (kg)</td>
<td>30 (14)</td>
</tr>
</tbody>
</table>
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Americas
BASF Corporation
25 Middlesex/Essex Turnpike
Iselin, New Jersey, 08830, USA
Tel : +1-732-205-5000
Fax: +1-732-205-7725
Email: catalysts-americas@basf.com

Asia Pacific
BASF (China) Company Limited
300 Jiang Xin Sha Road,
Pudong, Shanghai 200137
P.R. China
Tel: +86-21-2039 2549
Fax: +86-21-2039 4800-2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa
BASF De Meern BV Catalysts
The Netherlands
Tel: +31-30-666 9437
Email: catalysts-europe@basf.com

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