Zn 9201
Sulfur Adsorbent

BASF Zn 9201 is a zinc oxide adsorbent for the removal of hydrogen sulfide from hydrocarbon feedstocks.

Zn 9201 is produced as extrudates with a nominal diameter of 4 mm.

Product Applications

Zn 9201 is specifically used for the adsorption of H₂S (hydrogen sulfide) from different streams containing either hydrocarbons or hydrogen or mixtures thereof.

As the feed gas passes through the adsorbent bed, hydrogen sulfide is irreversibly adsorbed by the active zinc oxide particles within the catalyst. This reaction starts at the outer surface and proceeds to the core of the adsorbent. Since diffusion of hydrogen sulfide through the matrix is a slow process, more high-activity zinc oxide sites need to be available to maximize the sulfur adsorption. Zn 9201 is designed with this in mind as it provides an optimal surface area of highly active zinc oxide for maximal sulfur pickup.

To maximize performance, higher temperatures are recommended. Zn 9201 can be used up to temperatures of 400°C / 750°F.

Packaging

- Steel drums, 200kg net

Shipping Point

- De Meern, The Netherlands

<table>
<thead>
<tr>
<th>Typical Properties</th>
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<tbody>
<tr>
<td>Chemical</td>
<td></td>
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<tr>
<td>ZnO wt. %</td>
<td>≥ 95</td>
</tr>
<tr>
<td>Physical</td>
<td></td>
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<tr>
<td>Surface Area, m²/g</td>
<td>30 m²/g</td>
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<tr>
<td>Bulk Density</td>
<td>~ 1150 kg/m³ (~ 72 lbs/cuft)</td>
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<tr>
<td>Crush Strength</td>
<td>100 N/cm</td>
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These indicative properties do not represent process capabilities nor specifications.
About Us

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