Ni 3354 E RS
Nickel Fixed Bed Catalyst

BASF catalyst Ni 3354 E RS is designed for oxo aldehyde hydrogenations. It offers the highest selectivity in the market and unequalled long cycletimes. It is a 60% nickel containing extrudate that is sold in reduced-CO₂-stabilized form. It is available in 3/64” trilobe and 1/8” conical shape.

Suggested Applications

Ni 3354 E RS is particularly useful for fixed bed liquid and trickle phase oxo-aldehyde hydrogenation reactions where selectivity (suppression of acetals, ethers, and low/high ends) is key.

This product is applicable in a relatively large temperature window and is very robust at the required conditions, typically leading to very long lifecycles.

Shelf life

Unique to BASF nickel catalysts is the feature of CO₂-stabilization. This provides a multiple year shelf life enabling a reliable back-up charge strategy.

Packaging

Standard packing size is 150 kg (331 lbs) for the 3/64” trilobe and 125 kg (275 lbs) for the 1/8” cone in 210-liter steel drums with plastic liner shipped from De Meern, The Netherlands.

<table>
<thead>
<tr>
<th>Typical Properties</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Metal</td>
<td>Ni</td>
</tr>
<tr>
<td>Metal Content</td>
<td>60 %</td>
</tr>
<tr>
<td>Reduced Value Ratio</td>
<td>0.6</td>
</tr>
<tr>
<td>Packed ABD</td>
<td>0.9 kg/dm³ (3/64” 3F)</td>
</tr>
<tr>
<td></td>
<td>1.0 kg/dm³ (1/8”)</td>
</tr>
<tr>
<td>Side Crush Str.</td>
<td>40 N (3/64” 3F)</td>
</tr>
<tr>
<td></td>
<td>78 N (1/8”)</td>
</tr>
<tr>
<td>Surface Area</td>
<td>136 m²/g</td>
</tr>
<tr>
<td>Total Pore Volume</td>
<td>0.4 cm³/g</td>
</tr>
</tbody>
</table>

* These indications do not represent process capabilities nor specifications.
About Us

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