Nysosel® 645

Fats and oils hydrogenation catalyst

BASF Nysosel 645 is a catalyst possessing maximum selectivity in the partial hydrogenation of edible oils. It offers enhanced activity at lower temperatures which minimizes the formation of the trans isomer. Nysosel 645 is sold reduced and protected in hardened palm oil droplets.

Suggested applications

BASF Nysosel 645 is recommended for the partial hydrogenation of edible oils in the manufacture of salad and cooking oils, table spreads and shortenings. It is particularly recommended where maximum selectivity is desired. Examples include margarine base stocks and light hydrogenation to reduce linolenic (C 18:3) content – enabling improved flavor and oxidative stability to liquid oils.

Nysosel 645 is used as aid in the processing or transformation of raw materials, foodstuffs or their ingredients. However, this product is not suitable for animal or human consumption and body contact and must therefore be removed after use.

Packaging

Standard packing size is 150 kg (331 lbs) net in 210-liter steel drums shipped from De Meern, The Netherlands.

Target Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Metal</td>
<td>Ni</td>
</tr>
<tr>
<td>Metal Content</td>
<td>21.5 %</td>
</tr>
<tr>
<td>Support</td>
<td>Alumina</td>
</tr>
<tr>
<td>Catalyst Shape</td>
<td>Droplet</td>
</tr>
<tr>
<td>Coating</td>
<td>Fully hardened palm oil</td>
</tr>
<tr>
<td>Applications</td>
<td>Selective hydrogenation to reduce C 18:3 content</td>
</tr>
<tr>
<td>Activity</td>
<td>Good</td>
</tr>
<tr>
<td>Selectivity</td>
<td>Superior</td>
</tr>
<tr>
<td>Filtration</td>
<td>Good</td>
</tr>
<tr>
<td>Versatility</td>
<td>Acceptable</td>
</tr>
<tr>
<td>Poison Resistance</td>
<td>Good</td>
</tr>
</tbody>
</table>
About Us

BASF’s Catalysts division is the world’s leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF’s Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

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