PuriStar® R3-17 T3x3
CuO Tablets

BASF PuriStar® R3-17 is a versatile copper catalyst for removal of traces of carbon monoxide from gaseous and liquid hydrocarbon streams, in particular liquid propylene.

BASF PuriStar® R3-17 comes in tablet form with a nominal diameter of 3 mm and height of 3 mm (approx. 1/8" x 1/8"). The material is typically delivered pre-reduced and passivated and then referred to as R3-17RED. In its pre-reduced and passivated form, the material must be handled under inert conditions and should not be stored longer than a few months under appropriate conditions.

Product Applications

PuriStar® R3-17RED has been originally developed for the removal of CO from liquid propylene and is typically used in regenerative mode. The regeneration can be carried out with hot nitrogen containing traces of oxygen (procedure provided by BASF). Besides liquid propylene, R3-17RED can also be used in other applications aiming at removing CO from gaseous or liquid streams.

Depending on the process, PuriStar® R3-17RED is used at temperatures between ambient and 50°C (120°F).

R3-17RED is typically used in combination with a guard bed material like PuriStar® R3-12, used to remove sulphur, arsine and phosphine compounds upfront of the CO adsorption.

After proper reduction (please contact BASF for further information), R3-17 can be used for the sacrificial adsorption of CO or the regenerative adsorption of O2.

Packaging

− 150 kg net (330.7 lbs) in 120-liter tight steel drums

Shipping Point

− Ludwigshafen, Germany

### Typical Properties

<table>
<thead>
<tr>
<th>Chemical</th>
<th></th>
<th>Physical</th>
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<tbody>
<tr>
<td></td>
<td>Oxidic CuO/Zn</td>
<td>Crush Strength</td>
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<tr>
<td></td>
<td>Pre-Reduced/ Passivated CuO/ZnO/Cu</td>
<td>~ 1,550 kg/m³ (97 lbs/ft³), tapped</td>
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<tr>
<td></td>
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<td>Bulk Density</td>
</tr>
</tbody>
</table>

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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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