

PuriStar[®] R3-22

CuO/ZnO Tablets

BASF PuriStar[®] R3-22 is a high-performance material, designed for removal of Arsine, Phosphine and reactive Sulfur from Propylene containing streams.

BASF PuriStar[®] R3-22 comes in tablet form with a nominal diameter of 5 mm and height of 3 mm (approx. 3/16" x 1/8").

Product Applications

Due to its significantly improved recipe, PuriStar R3-22 outperforms PuriStar R3-12 in the removal of arsine, phosphine, H₂S and COS from process and product streams. It is intended to be used in the purification of refinery, chemical, and polymer grades of propylene. Typical applications include purification of propylene at the front end of cumene, Oxo-C4 and polypropylene units.

R3-22 can also be used, under certain conditions, as a guard bed to protect noble metal catalysts (e.g. MAPD hydrogenation catalysts), against poisoning by arsine and sulfur.

Depending on the process, PuriStar R3-22 can be used at temperatures up to 250°C (480°F).

Before using the material, a drying step is required. This can either be done via a special operation or on-stream. Please contact BASF for further details.



Typical Properties

Chemical

Main Components	CuO and ZnO
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Balance	Alumina and Promoters
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Physical

Crush Strength	Approx. 7.0 kg (15 lbs), side wall
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~ 1500 kg/m³

Bulk Density	(94 lbs/ft ³), tapped
	~ 1350 kg/m ³

(84 lbs/ft³) sock loaded

Packaging (Typical)

- 980 kg net (2160 lbs) in 1150 liter super sacks (IBC flexible)
- Other packaging will be made available at a later time

Shipping Point

- Ludwigshafen, Germany

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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