

PuriStar® R3-15 T5x3

CuO/ZnO Tablets

BASF PuriStar® R3-15 is designed for the removal of Oxygen from different streams.

BASF PuriStar® R3-15 is offered as tablet with a nominal diameter to height ratio of 5 x 3 mm (3/16 x 1/8”).

Product Applications

PuriStar® R3-15 is designed for the adsorptive removal of oxygen from industrial gases such as nitrogen, noble gases (e.g. He, Ar, Kr, Xe), carbon oxides, hydrogen, synthesis gases and other gas streams. R3-15 can also be used for the removal of oxygen from hydrocarbon streams like ethylene. Prior to operation as an oxygen scavenger, R3-15 needs to be reduced according standard procedures. Please contact BASF for further details.

R3-15 can also be used for converting CO and H₂ to CO₂ and H₂O in ethylene containing streams. This allows to achieve very low levels of the respective impurities. At the end of a cycle, R3-15 needs to be reoxidized. Please contact BASF for further details.

In addition, R3-15 effectively removes traces of hydrogen sulfide (H₂S), carbonyl sulfide (COS), arsine (AsH₃), phosphine (PH₃) and other sulfur compounds from various process streams.

Process dependent, PuriStar® R3-15 can be used up to temperatures of around 230° C (450° F).



Typical Properties

Chemical

Main Components CuO, ZnO

Balance Alumina and Promoters

Physical

Crush Strength Approx. 55N, side wall

~ 1300 kg/m³ (81 lbs/ft³), tapped

Bulk Density ~ 1200 kg/m³ (75 lbs/ft³) sock

Packaging

- 980 kg net (2160.2 lbs) in 1150 liter supersacks (flexible IBC)
- 140 kg net (308.6 lbs) in 120 liter steel drums

Shipping Point

- Ludwigshafen, Germany
- Shanghai, P.R. China (starting 2018)

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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