



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 in tablet form. Each tablet has a nominal diameter of 5 mm and a height of 3 mm (approx. 3/16" x 1/8"). The material is black in color. The material is delivered in oxidic form.



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 is also used for the removal of oxygen from hydrocarbon streams like ethylene.

PuriStar® R3-15 can also be used for converting trace amounts of CO and H₂ to CO₂ and H₂O in ethylene containing streams. This allows to achieve very low levels of the respective impurities.

PuriStar® R3-15 is also used in reduced state for the purification of acetylene off-gas converting oxygen, acetylene, and ethylene impurities.

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

Special Operations

PuriStar® R3-15 needs to be reduced before being used for the removal of oxygen and at the end of each cycle. When used in oxidic state for

converting CO and H_2 , a drying step is required before use. After each cycle, the material needs to be re-oxidized.

Poisons

PuriStar® R3-15 is sensitive against Sulfur and its components.

Storage

PuriStar® R3-15 does not deteriorate or constitute any hazard when, stored in sealed containers. The containers should not be allowed to become damp or wet.

Target Properties*	
Chemical	
Main Components	CuO and ZnO
Balance	Alumimina and Promoters
Typical Physical Properties	
Crush Strength	Approx. 55 N side wall
Bulk Density (sock)	~ 1 200 kg/m³ (75 lbs/ft³)

^{*}These indicative properties do not represent process capabilities nor specifications.

Packaging

- 980 kg net (2160.2 lbs) in 1150-liter supersack (flexible IBC)
- 100 kg net (220.5 lbs) in 120-liter steel drums

Delivery Point:

- Ludwigshafen, Germany
- Shanghai, P.R. China

About Us

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