

Product Data Sheet

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 prereduced 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 O_2 .



Typical Properties	
Chemical	
Main Components	
Oxidic	CuO/Zn
Pre-Reduced/ Passivated	CuO/ZnO/Cu
Physical	
Crush Strength	> 20N, side crush, reduced
	form
Bulk Density	\sim 1,550 kg/m 3 (97 lbs/ft 3),
	tapped
	\sim 1,340 kg/m³ (84 lbs/ft³)
	sock

Packaging

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

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

Americas

BASF Corporation 25 Middlesex/Essex Turnpike Iselin, New Jersey, 08830, USA

Tel: +1-732-205-5000 Fax: +1-732-205-7725

Email: catalysts-americas@basf.com

Asia Pacific

BASF (China) Company Limited 300 Jiang Xin Sha Road, Pudong, Shanghai 200137 P.R. China

Tel: +86-21-2039 2549 Fax: +86-21-2039 4800-2549 Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF De Meern BV Catalysts The Netherlands Tel: +31-30-666 9437

Email: catalysts-europe@basf.com

PuriStar is a trademark of BASF.

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2015 BASF