

Prosorb E 1/16" 3F

Ni based adsorbent for propylene and higher olefins

BASF Prosorb is a high-performance material specifically developed for the purification of propylene (e.g. Total's Triple P process).

BASF Prosorb is produced in extrudate form as trilobes with a nominal diameter of 1/16" (approx. 1.6 mm).

Prosorb is delivered pre-reduced and passivated.

BASF will stop offering this material. Please contact BASF for further details.

Product Applications

Prosorb was developed for Total's Triple P Process (Propylene Polishing Process). This Process was designed to remove a number of common contaminants in propylene streams that are poisonous to polymerization catalysts. Those contaminants include:

- Sulfur containing species including H₂S, COS, CS₂ and light mercaptans
- Metal hydrides including AsH₃, PH₃ and SbH₃
- O₂, CO and CO₂
- Hydrogen

Prosorb is typically used at temperatures ranging from ambient up to 60°C depending on the feedstock and its reactivity.

Prosorb has shown also good activity for the removal of sulfur components in olefinic C4 streams to very low levels.

Prosorb must be properly pre-loaded before use.

Prosorb used in combination with other BASF adsorbents, for example PuriStar® R3-12 and

Selexsorb® CD and COS, often provide the most cost-effective propylene treating system.

A potential replacement for Prosorb is Prosorb P, an improved version of Prosorb. Alternatively, PuriStar R3-12 might also be used depending on the exact conditions. Please contact BASF for further details.

Typical Properties

Chemical

Ni	Approx. 50 %
----	--------------

Physical

Surface Area	150 m ² /g
--------------	-----------------------

Packed ABD	~ 750 kg/m ³ (47 lbs/ft ³)
------------	--

Crush Strength	1 MPa (bulk)
----------------	--------------

Packaging (Typical)

100 kg net (220.5 lbs) in steel drums with inliner

Delivery Point (in the past)

DeMeern, The Netherlands

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
Phone : +1-732-205-5000
Email: catalysts-america@basf.com

Asia Pacific

BASF (China) Company Limited
Phone: +86-21-2039 2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF Services Europe GmbH
Phone: +49-30-20055000
Email: catalysts-europe@basf.com

PuriStar and Selexsorb are trademarks 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