

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.

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.

Typical Properties

Chemical

Ni	Approx. 50 %
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Physical

Surface Area	150 m ² /g
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Packed ABD	~ 750 kg/m ³ (47 lbs/ft ³)
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Crush Strength	1 MPa (bulk)
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Packaging (Typical)

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

Delivery Point

- 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

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