

Selexsorb® AS5

Improved Spherical adsorbent for the removal of Arsine and Phosphine

BASF Selexsorb® AS5 is an improved smooth alumina-based adsorbent, impregnated with copper oxide as the active component to provide optimum adsorption for arsine, phosphine, and sulfur compounds.

BASF Selexsorb® AS5 is an adsorbent in spherical form with a nominal size of 1/8" (approx. 3.2 mm).

Product Applications

Due to its high surface area, optimized pore size distribution and ultrafine copper crystallite size, Selexsorb® AS5 provides for excellent removal of arsine, phosphine, H₂S and COS from process and product streams. This improved capacity compared to Selexsorb® AS will lead to reductions in energy consumption and GHG emissions.

Selexsorb® AS5 is aimed at the purification of refinery, chemical and polymer grades of propylene. Typical applications include propylene at the front end of cumene, Oxo-C4 and polypropylene units. Operating temperature can lie between ambient temperature and up to 50 or 60°C / 120 or 140°F.

Alternatives for Selexsorb® AS5 are PuriStar® R3-12 or R3-22, which offer higher capacities for the components indicated for the same volume filled.

Special Operations

Before using the material, a drying step is recommended. This can either be done via a special operation (dedicated drying step up to 200°C / 390°F) or on-stream. A procedure for drying the material is available.

Storage

Selexsorb® AS5 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
Balance	Alumina and Promoters

Typical Physical Properties

Crush Strength	Approx. 63 N (14 lbs)
Bulk Density (sock)	~ 700 kg/m ³ (43.5 lbs/ft ³)

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

Packaging

- 907.185 kg net (2 000 lbs) in 1150-liter supersack (flexible IBC)

Delivery Point:

- Vidalia, LA, U.S.A.

About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts and adsorbents, refinery catalysts and custom catalysts. In the process catalysts business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

The division's portfolio also includes battery materials and recycling solutions, as well as environmental catalysts and metal solutions.

Customers from a variety of industries including Automotive & Transportation, Chemicals, Plastics or Energy & Resources benefit from our innovative solutions.

Further information on BASF's Catalysts division is available on the Internet at www.catalysts.basf.com.

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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

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