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Product Data Sheet

Selexsorb As

Copper oxide on alumina based spherical adsorbent for the removal of arsine and phosphine

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

BASF Selexsorb As is an adsorbent in spherical form with a nominal size of 1/8".

Product Applications

Due to its high surface area and ultrafine copper crystallite size, Selexsorb As provides for excellent removal of arsine, phosphine, H_2S and COS from process and product streams. Selexsorb As is used in 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. Typical operating temperature for this type of application is between ambient temperature and up to 50 or 60°C / 120 or 140°F.

Depending on the application, Selexsorb is being used in combination with a regenerative system up-stream consisting of Selexsorb COS/COS*i* and Selexsorb CD/CDL. This can be the case, if higher amounts of COS need to be removed or in the presence of mercaptans or sulfides.

Before using the material, a drying step is required. This can either be done via a special operation (dedicated drying step up to 250°C / 480°F) or on-stream. A procedure for drying the material is available. Alternatively, BASF can offer a pre-dried version of the material. This material is referred to as Selexsorb As D.

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

Please contact BASF for further details.

Packaging

- 2000 lb (907.185 kg) FIBC (super sacks)
- 330 lb (149.685 kg) steel drums

The pre-dried version (Selexsorb As D) is only available in steel drums.

Shipping Point

Vidalia, LA, U.S.A. or Natchez, MS, U.S.A.

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Chemical Composition (%)	
Copper Oxide, wt. %	Approx. 10
Al_2O_3 plus proprietary modifier	Rest
LOI (250-1100° C)	3.0
Selexsorb As D only:	
MOI (ambient – 250°C)	Max. 0.5

Typical Physical Properties	
Surface Area, m^2/g	190
Crush Strength, lbs (kg)	20 (9.0)
Bulk Density, lbs/ft^3 (kg/m^3)	50 (800)

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.

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