

Selexsorb COS*i*

Smooth, spherical adsorbent for the removal of COS, H₂S and CO₂

BASF Selexsorb® COS*i* is a smooth, spherical adsorbent which shows outstanding performance in removing selectively COS, CO₂, H₂S and CS₂ from hydrocarbon streams

BASF Selexsorb COS*i* is available as 7x14 Tyler Mesh and 1/8 inch spheres.

Applications

Selexsorb COS*i* can be used in a wide variety of different applications. In the following some of these are indicated:

1. An important application is the use as adsorbent for the removal of CO₂ from ethylene in front of PE units. Levels as low as 20 ppb are possible. Selexsorb COS*i* can be used in combination with Selexsorb CD or CDL for the removal of water and oxygenates, like methanol.

2. Another application is the removal of COS from propylene in front of PP units. The removal of COS is an important part of the protection of newer generation Ziegler-Natta and metallocene based catalysts. When used in combination with PuriStar R3-12, COS levels of 10 ppb or less can easily be achieved. Selexsorb COS*i* can here again be used in combination with Selexsorb CD or CDL.

3. Selexsorb COS*i* can also be used in the treatment of comonomers for removing COS and H₂S impurities.

4. In on-purpose units producing propylene via dehydrogenation or metathesis, Selexsorb COS*i* can be used to remove COS or H₂S.

5. Selexsorb COS*i* is able to remove COS or CS₂ from olefinic C4 streams used in different applications in petrochemical or refinery units.

6. In catalytic reforming processes, Selexsorb COS*i* will be effective in adsorbing H₂S and water from the H₂ recycle stream.

Selexsorb COS*i* can replace Selexsorb COS in all existing applications. Please contact BASF for further details.

Packaging

- 1750 lbs (793,787 kg) big bags
- 320 lbs (145,125 kg) steel drums

Shipping Point

- Vidalia, LA, USA

Chemical Composition

Al₂O₃ plus proprietary modifier ~ 93

LoI (250 – 1100°C) ~ 6.0

Typical Physical Properties

Surface Area, m²/g 250

Crush Strength, lbs (kg) 4 - 11 (2-5)

Bulk Density, lbs/ft³ (kg/m³) 42 (670)

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-america@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 SE
67056 Ludwigshafen, Germany
Tel: +49-621-60-21153
Fax: +49-621-60-43023
Email: catalysts-europe@basf.com

Selexsorb 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