

Technical Data Sheet

Selexsorb® COSi

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® COSi 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.

Chemical Composition	
Al ₂ O ₃ plus proprietary modifier	~ 93
Lol (250 – 1100°C)	~ 6.0
	0.0
Typical Physical Properties	
Surface Area, m²/g	250
Crush Strength, lbs (kg)	4 - 11 (2-5)
Bulk Density, lbs/ft³ (kg/m³)	42 (670)

Packaging

- 1750 lbs (793.787 kg) big bags
- 320 lbs (145.125 kg) steel drums

Shipping Point

Vidalia, LA, USA

About Us

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Americas

BASF Corporation Phone: +1-732-205-5000

Email: catalysts-americas@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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