

Selexsorb[®] CD

Alumina based adsorbent for the removal of polar compounds

BASF Selexsorb[®] CD is custom formulated to provide optimum adsorption for a number of polar compounds (containing O, N or S) from hydrocarbon streams.

BASF Selexsorb[®] CD is available as spheres with nominal sizes of 1/16" (7 x 14 Mesh), 1/8" and 3/16".

Product Applications

1. Hydrocarbon feed streams to petroleum refining catalytic processes often contain oxygenated organic compounds and other trace contaminants which can cause catalyst deactivation and other process unit performance problems.

BASF Selexsorb[®] CD is an excellent adsorbent for the removal of alcohols, aldehydes, ketones, ethers, and various other carboxylic acids from the liquid hydrocarbon feed streams to isomerization and alkylation processes.

BASF Selexsorb[®] CD is also appropriate for the removal of water and mercaptans from these feed streams.

2. The C₄ raffinate stream from MTBE (methyl tertiary butyl ether) manufacturing processes contain oxygenates which often require removal to assure a contaminant-free feed stream to petroleum refining and petrochemical processes. Removal of oxygenates such as methanol, dimethyl ether, tertiary butyl alcohol and MTBE process is removal of nitrogen based contaminants, such as acetonitrile and ammonia, from the C₄ feed stream.

3. BASF Selexsorb[®] CD adsorbent has been found to be outstanding in its ability to remove water and trace contaminants from carbon dioxide. The resultant high purity CO₂ is far superior to the product produced with conventional adsorbents.

4. BASF Selexsorb[®] CD is custom formulated to remove oxygenated organic compounds (alcohols, ethers, aldehydes, carbonyls, ketones, peroxides, etc.) from free monomer, feed comonomer, and recycle solvent streams in a number of polymer production processes, including polyethylene and polypropylene. Polymerization catalyst deactivation is minimized through removal of these contaminants with BASF's selective adsorbents.

Selexsorb[®] CD can also be used in combination with Selexsorb[®] COS or Selexsorb[®] COSi. For further information, please contact BASF.

The maximum temperature during regeneration should be limited to 340°C / 640°F.

For proper handling of the material, especially when bringing the adsorbent in contact with olefins, please contact BASF for further details.



We create chemistry

Product Data Sheet

Chemical Composition (%)

Al ₂ O ₃ plus proprietary modifier	95.1
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LOI (250-1100° C)	4.5
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Typical Physical Properties	7x14 Tyler Mesh	1/8" (3.2mm)	3/16" (4.8 mm)
	(2.0mm)		

Surface Area, m ² /g		400	
	420	410	

Crush Strength, lbs (kg)	10 (5)	25 (11)	45 (20)

Bulk Density, lbs/ft ³ (kg/m ³)	43 (689)	43.5 (697)	43.5 (697)

Packaging

- 1900 lb (861.826 kg) FIBC (super sacks)
- 300 lb (136.078 kg) steel drums

Shipping Point

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

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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