Selexsorb CD

Smooth, spherical adsorbent for the removal of polar compounds

BASF Selexsorb® CD is custom-formulated to provide optimum adsorption of a number of polar compounds including: water, oxygenated hydrocarbons (alcohols, aldehydes, ketones, ethers, peroxides), mercaptans, sulfides and nitrogen-based molecules (ammonia, amines, nitriles).

BASF Selexsorb CD is available in nominal sizes of 1/16”, 1/8”, and 3/16” spheres.

**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 from this C₄ raffinate stream can be accomplished by use of BASF Selexsorb CD. An additional application for BASF Selexsorb CD in the 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 feed monomer, feed comonomer, and recycle solvent streams in a number of polymer productions processes, including polyethylene and polypropylene. Polymerization catalyst deactivation is minimized through removal of these contaminants with BASF’s selective adsorbents.

**Packaging**

- 1900 lb super sacks
- 300 lb steel drums
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