

### **Product Data Sheet**

# Selexsorb® CDL

# Alumina based adsorbent for the removal of polar compounds

BASF Selexsorb CDL is custom-formulated to provide optimum adsorption of a number of polar compounds from reactive olefinic streams

BASF Selexsorb CDL is available as spheres with nominal sizes of 7x14 Tyler mesh (approx. 1.6 mm) and 1/8" (approx. 3.2 mm).

Selexsorb CDL provides the benefits of enhanced capacity for impurities reduced surface activity. Both together provide for longer life and overall higher capacity even towards end of life. CDL is the preferred Selexsorb material for removing contaminants from reactive process streams. especially ethylene, propylene and butenes. Typical contaminants to be removed with Selexsorb CDL include water, oxygenates (alcohols. aldehydes, ketones, peroxides), mercaptans sulfides and nitrogenbased molecules (ammonia, amines, nitriles).

#### **Product Applications**

- 1. BASF Selexsorb CDL is custom formulated to remove trace contaminants from feed monomer (ethylene, propylene), feed comonomer ( $\alpha$ olefins) and recycle solvent streams in a number of polymer production processes including polyethylene and polypropylene. Polymerization catalyst deactivation minimized through the removal of these contaminants with BASF's selective Adsorbents.
- 2. Removal of oxygenates from C4 raffinate stream used in metathesis processes is another important application of this adsorbent. The removal of the oxygenates ensures optimal catalyst activity and life. Examples of such oxygenates are methanol, dimethyl ether, tertiary butyl alcohol, acetaldehyde and ketones. In the presence of reactive olefinic

species Selexsorb CDL offers better capacity and performance than Selexsorb CD or CDX and thus is the preferred solution for these applications.

3. Hydrocarbon feed streams used in petrochemical or refining catalytic processes frequently contain trace contaminants that can adversely affect the performance of downstream catalysts. BASF Selexsorb CDL is an excellent adsorbent for removing trace oxygenates, sulfides and mercaptans and other such species from feed streams to isomerization and alkylation processes.

Selexsorb CDL can also be used in combination with Selexsorb COS or Selexsorb COS*i*. For further information, please contact BASF.

Chemical Composition	
Al <sub>2</sub> O <sub>3</sub> plus proprietary modified	95.5
Lol (250 – 1 100°C)	4.0
Typical Physical Properties	
Surface Area, m²/g	460
Crush Strength, kg (lbs)	4 (9)
Bulk Density kg/m³ (lbs/ft³)	689 (43)

<sup>\*</sup> These indicative properties do not represent process capabilities nor specifications.

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



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#### **Packaging**

- FIBC (flexible intermediate bulk container), 861,873 kg / 1 900 lbs net
- Steel drums 136,078 kg / 300 lbs net

#### **Shipping Point**

Vidalia, LA, U.S.A. or Natchez, MS, U.S.A. (BASF warehouse)

#### **About Us**

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