

# Selexsorb® CDO

## Alumina adsorbent

**BASF Selexsorb® CDO is a specially prepared alumina adsorbent with relatively low soda content, high Lewis acidity and low Bronsted acidity.**

BASF Selexsorb® CDO is available as spheres with a nominal diameter of 1/8" (approx. 3.2 mm).

Selexsorb® CDO has proven valuable in selectively removing oxygenated compounds and other Lewis bases from streams in which Bronsted acidity on the adsorbent would cause unwanted side reactions.

Some common Lewis bases are alcohols, aldehydes, peroxides, ketones, carboxylic acids, ethers, ammonia, nitriles, and HCN. BASF Selexsorb® CDO is designed to minimize proton transfer that can be promoted by adsorbent Bronsted acidity.

### Product Applications

Applications for BASF Selexsorb® CDO include purification of feed monomer, intermediate, or final products in the specialty polymer, fine chemicals, and pharmaceutical industries. Applications are typically of a proprietary nature and will be treated accordingly.

BASF Selexsorb® CDO adsorbent has proven to be particularly effective in the removal of oxygenated hydrocarbons from co-monomer streams (hexene-1, octene-1) in polyethylene production processes.

### Typical Chemical Composition (%)

Al <sub>2</sub> O <sub>3</sub>	Min. 97.5
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LOI (250-1100° C)	Up to 4.0
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### Typical Physical Properties

1/8 inch (3.2 mm)

Surface area, m <sup>2</sup> /g	approx. 200
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Crush strength, lbs (kg)	20 (9.0)
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Pack bulk density, lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	48 (770)
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### Packaging

- 2000 lbs (907,185 kg) super sacks (FIBC)
- 350 lbs (158,757 kg) in steel drums

### Delivery Point

- Vidalia, LA, U.S.A.

## About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts, adsorbents and custom catalysts. In the process catalyst business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

BASF's chemical catalysts and adsorbent business is part of the company's Performance Chemicals division. The division's portfolio also includes refinery catalysts, fuel and lubricant solutions, as well as oilfield chemicals and mining solutions. Customers from a variety of industries including Chemicals, Plastics, Consumer Goods, Energy & Resources and Automotive & Transportation benefit from our innovative solutions.

**BASF - We create chemistry**



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