

Sorbead® C

BASF Sorbead® C is a high-performance, acid-resistant silica gel adsorbent for dehydration and gas separation processes.

Product Applications

The BASF Sorbead® line of highly efficient adsorbents are aluminosilicate gels in the form of hard, spherical beads, with a very high resistance to crushing and a low attrition rate. Sorbead® adsorbents have a long life, therefore reducing change out costs over time compared to adsorbents.

Sorbead® C is water-resistant, has very low alumina content, and high-water capacity. These features make Sorbead® C well suited for air dehumidification and adsorption heat storage.

The unique pore structure of Sorbead® C results in fast kinetics, resulting in sharp removal of CO₂ from gas mixtures. This pore structure also allows for the separation of CO and CO₂ in a cyclic adsorption process. Finally, the low alumina content leads to less reactivity for undesired side reactions.

Target Properties*

Chemical Composition	99.5% SiO ₂ 0.5% Al ₂ O ₃
Surface Area (BET)	750 m ² /g
Pore Volume	0.45 cm ³ /g
Equilibrium Capacity for Water Vapor at 25° C	7.5 wt% at 10 % R.H. 41% at 80 % R.H.
Packed Bulk Density	0.57 kg/L
Liquid Water Resistant	Yes

*These indicative properties do not represent process capabilities nor specifications

Typical distribution of grain size

- 1.0 – 4.0 mm

Packaging

- Big bag 600 kg
- Steel drums 200 L

Sorbead® is also sold as KC-Trockenperlen.

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 and adsorbents, refinery catalysts and custom catalysts. In the process catalysts business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

The division's portfolio also includes battery materials and recycling solutions, as well as environmental catalysts and metal solutions. Customers from a variety of industries including Automotive & Transportation, Chemicals, Plastics or Energy & Resources benefit from our innovative solutions. Further information on BASF's Catalysts division is available on the Internet at www.catalysts.basf.com.

BASF - We create chemistry

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BASF-9240 01/24

Internal