

Sorbead[®] R

High-performance silica gel adsorbent

BASF Sorbead[®] R is a high-performance, acid resistant adsorbent for dehydration of natural gas.

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 longer life than most other adsorbents and can reduce operating costs in most applications.

Sorbead[®] R is an acid resistant adsorbent with above-average drying capacity at low required desorption energy. The unique properties of Sorbead[®] R provide a reliable and robust product with minimal attrition and high mechanical strength. Sorbead[®] R is protected from liquid condensation by a layer of water stable Sorbead[®] WS.

Target Properties

Chemical Composition	SiO ₂	96 wt. %
	Al ₂ O ₃	4 wt. %
Surface Area (BET)	700 m ² /g	
Pore Volume	0.4 cm ³ /g	
Equilibrium Capacity for Water Vapor at 25° C	10% R.H.	6 wt. %
	80% R.H.	36 wt. %
Packed Bulk Density	0.8 kg/L	
Crushing Strength	200 N	
Attrition Rate	0.05 wt. %	

These indicative properties do not represent process capabilities nor specifications.

Typical distribution of grain size

- 2.0 – 5.0 mm

Packaging

- 850 kg Big bag
- 150 kg Steel drums

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.

BASF - We create chemistry

Sorbead adsorbents are also known by the trade name KC-Trockenperlen®.

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