

Sorbead™ WS

Water-resistant adsorbent

BASF Sorbead WS water resistant silica gel adsorbents have high capacity and protect other adsorbents and catalysts from water vapor in a broad range of applications.

The BASF Sorbead line of highly efficient adsorbents is an alumino-silicate gel formed into hard, spherical beads – having a 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 WS is the only 100% water-resistant adsorbent with a high adsorption capacity. It is frequently used as a protective layer in combination with Sorbead R, Sorbead H, Sorbead Plus or other adsorbents such as molecular sieves, activated alumina, activated carbons and catalysts in order to increase the reliability of the system. The high capacity of Sorbead WS enables it to be used on a stand-alone basis as well.

With its high resistance against hydrothermal aging and low regeneration temperature, BASF

Sorbead WS is ideal for applications where adsorbent regeneration with humid gas occurs (e.g. heat-of-compression, blower-purge air dryers and air separation plants).

Typical distribution of grain size

2.0 – 5.0 mm

1.0 – 3.0 mm

Packaging

Shanghai PingYiao Trading CO., Ltd.

Address: Xuhui District, Shanghai Caoxi Yin Hai Building, A1207 Room, No. 250

Telephone helpline: 15900706965

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Big bags 1,653 lbs.

Poly bags 55 lbs.

Steel drums 287 lbs.

Tins 8 x 6.6 lb., 20 x 2.2 lb.

Typical Properties

Chemical Composition	SiO ₂	97 wt. %
	Al ₂ O ₃	3 wt. %
Surface Area (BET)	650 m ² /g	
Pore Volume	0.45 cm ³ /g	
Equilibrium Capacity for Water Vapor at 25° C	10 % R.H.	4 wt. %
	80 % R.H.	34 wt. %
Packed Bulk Density	44 lb/ft ³	
Crushing Strength	>120 N	
Attrition Rate	<0.05 wt. %	
Liquid Water Resistant	Yes	

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. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF Catalysts develop unique, proprietary catalyst and adsorbent solutions that drive customer success.

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