



Shanghai PingYiao Trading CO., Ltd.

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 aluminosilicate 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

Shanghai PingYiao Trading CO., Ltd.

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

Telephone helpline: 15900706965

Website: www.pingyiao.com

Tel: 86-21-64705533

Fax: 86-21-64705533-209

E-mail: info@pingyiao.com



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2.0 – 5.0 mm

1.0 – 3.0 mm

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 BASF

As the world's leading chemical company, BASF's portfolio ranges from chemicals, plastics, performance products, agricultural products and fine chemicals to crude oil and natural gas. BASF's intelligent system solutions and high-value products help its customers to be more successful.

BASF develops new technologies and uses them to open up additional market opportunities. It combines economic success with environmental protection and social responsibility, thus contributing to a better future.

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