

Sorbead™ WS

Water-resistant adsorbent,
also known as KC-Trockenperlen® WS

Product data

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

The patented BASF Sorbead line of highly efficient adsorbents are alumino-silicate 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 WS is the only 100 % water-resistant adsorbent with a high adsorption capacity. It is most

frequently used as a protective layer in combination with Sorbead R 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, Sorbead WS is ideal for applications where adsorbent regeneration with humid gas occurs (e.g. Heat-of-Compression and Blower-Purge air dryers, air separation plants).

Typical distribution of grain size

- 2.0 – 5.0 mm
- Other Sizes on Request

Packaging

- Big bag 1,653 lbs.
- Poly bag 55 lbs.
- Steel drums 287 lbs.
- Tins 8 x 6.6 lbs., 20 x 2.2 lbs.

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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Typical properties		
Chemical composition	SiO ₂ Al ₂ O ₃	97 wt.% 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.	42 wt. %
Packed bulk density	44 lb/ft ³	
Crushing strength	120 N	
Attrition rate	0.05 wt. %	
Liquid water resistant	Yes	

The typical properties are representative values that do not imply any guarantee or warranty by BASF Catalysts Germany GmbH.

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