

# KC-Trockenperlen WS

Water-resistant adsorbent, also known as Sorbead WS

BASF KC-Trockenperlen<sup>®</sup> 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 KC-Trockenperlen 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. KC-Trockenperlen adsorbents have a longer life than most other adsorbents and can reduce operating costs in most applications.

KC-Trockenperlen 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 KC-Trockenperlen 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 KC-Trockenperlen WS enables it to be used on a stand-alone basis as well.

With its high resistance against hydrothermal aging and low regeneration temperature, KC-Trockenperlen 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 750 kgs
- Poly bag 22 kgs
- Steel drums 130, 45 and 23 kgs

Other containers available on request.

## For further information or technical questions, please contact us:

Tel: +49-511-28-86-60

Fax: +49-511-28-86-760

Email: trockenperlen@basf.com

Typical Properties		
Chemical Composition	SiO <sub>2</sub>	97 wt. %
	Al <sub>2</sub> O <sub>3</sub>	3 wt. %
Surface Area (BET)	650 m <sup>2</sup> /g	
Pore Volume	0.45 cm <sup>3</sup> /g	
Equilibrium Capacity for Water Vapor at 25° C	10 % R.H.	4 wt. %
	80 % R.H.	42 wt. %
Packed Bulk Density	0.7 kg/L	
Crushing Strength	120 N	
Attrition Rate	0.05 wt. %	
Liquid Water Resistant	Yes	

*These indicative properties do not represent process capabilities nor specifications.*

## 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.

### BASF - The Chemical Company

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

#### BASF Catalyst Headquarters

BASF Catalysts  
25 Middlesex/Essex Turnpike  
Iselin, New Jersey, 08830, USA  
Tel: +1-732-205-5000  
Fax: +1-732-205-7725  
Email: [catalysts-americas@basf.com](mailto:catalysts-americas@basf.com)

#### Asia Pacific

BASF East Asia Regional HQ Ltd.  
45th Floor, Jardine House  
No. 1 Connaught Place  
Central, Hong Kong  
Tel: +852-2731-0191  
Fax: +852-2731-5634  
Email: [catalysts-asia@basf.com](mailto:catalysts-asia@basf.com)

#### Europe, Middle East, Africa

BASF SE  
67056 Ludwigshafen, Germany  
Tel: +49-621-60-21153  
Fax: +49-621-60-43023  
Email: [catalysts-europe@basf.com](mailto:catalysts-europe@basf.com)

#### BASF Catalysts Germany GmbH

Freundallee 23  
30173 Hannover, Germany  
Tel: +49-511-28-86-60  
Fax: +49-511-28-86-760  
Email: [trockenperlen@basf.com](mailto:trockenperlen@basf.com)

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