

Sorbead[®] Air WS

Sorbead[®] Air WS is an alumino-silicate gel in our line of highly efficient adsorbents ideally suited for compressed air drying.

Product description

Sorbead[®] Air WS is a high-performance adsorbent designed for applications in compressed air industry. It is available as hard, spherical beads. These beads are adsorbents for water, and resist crushing and attrition. The product has an above average drying capacity, low required desorption temperature, long life span, and high mechanical strength. When used to dry compressed air, these properties effectively reduce operating costs in manufacturing plants.

Applications

Sorbead[®] Air WS is used for drying of compressed air. It is the only 100% water-resistant adsorbent with a high adsorption capacity and is most frequently used as a protective layer in combination with Sorbead[®] Air R. Sorbead[®] Air WS is ideal for applications where adsorbent regeneration with humid gas occurs.

Safety & handling

Sorbead[®] Air WS is classified as nontoxic and does not produce toxic effects upon reasonable exposure. It is also known to have high thermal stability and hydrothermal stability. Normal housekeeping and operating procedures should ensure personnel safety. The data contained herein are for general

informational purpose only. Please refer to the Safety Data Sheet for specific, complete information regarding these products.

Physical Properties

Chemical Composition	97 % SiO ₂ , 3 % Al ₂ O ₃
Surface Area, m ² /g	630-650
Pore volume, ml/g	0.43-0.45
Bulk Density, kg/L	0.7
Equilibrium capacity for water vapor at 25 °C and relative humidity 80%	34.0-36.0
Crush Strength, N	90-100
Attrition, wt %	0.05-0.1
Grain size (mm)	2-5
Water (liquid) resistant	Yes
Typical desorption temperature (°C)	120-150
Pressure dew point of surrounding air can get down to (°C)	-60

Typical distribution of grain size

- 2.0-5.0 mm
- Other sizes on request

Packaging

- Big bag, 1,653 lb, 750 kg
- Steel drums, 287 lb, 130 kg
- Poly bag, 55 lb, 25 kg

About Us

BASF is a leading global manufacturer of catalysts for the chemical industry, with solutions across the chemical value chain. The business comprises chemical catalysts and adsorbents, refinery catalysts and custom catalysts. In the process catalysts business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

The division's portfolio also includes battery materials and recycling solutions, as well as environmental catalysts and metal solutions.

Customers from a variety of industries including Automotive & Transportation, Chemicals, Plastics or Energy & Resources benefit from our innovative solutions. Further information on BASF's Catalysts division is available on the Internet at catalysts.basf.com.

BASF - We create chemistry

Americas

BASF Corporation
Phone: +1-732-205-5000
Email: catalysts-america@basf.com

Asia Pacific

BASF (China) Company Limited
Phone: +86-21-2039 2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF Services Europe GmbH
Phone: +49-30-20055000
Email: catalysts-europe@basf.com

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2015 BASF