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Product Data Sheet

Sorbead® Air R

Sorbead® Air R is an alumino-silicate gel in our line of highly efficient adsorbents ideally suited for the compressed air market.

Product description

Sorbead® Air R is available as hard, spherical beads. These beads are adsorbants 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 can effectively reduce operating costs in manufacturing plants.

Applications

Sorbead Air R is primarily used for the dehydration of compressed air. The standard Sorbead Air R is a highly active, universally applicable adsorbent in the regenerated state but is sensitive to water droplets. Therefore, it is best to use a guard layer of 15-20% of Sorbead® Air WS that protects the main bed against liquid water condensate.

Safety & handling

Sorbead Air R is classified as nontoxic and does not produce significant organic diseases or toxic effect with reasonable exposure. It is also known to have high thermal stability and hydrothermal stability. Normal good 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_2O_3
Packed bulk density kg/l	0.8
Surface area, m2/g	750
Pore volume, ml/g	0.42
Equilibrium capacity for water vapor at 25 °C and relative humidity 80%	42.0
Grain size (mm)	2-5
Water (liquid) resistant	No
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, 1875 lb, 850 kg
- Steel drums, 330 lb, 150 kg
- Bulk (greater than 15 tons)

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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, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

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BASF-10604 08/18