

## Sorbead™ R

High performance adsorbent

BASF Sorbead™ R is a high performance adsorbent for dehydration of air, industrial gases and liquids.

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 R is an adsorbent with a wide range of applications and its high level of economy and reliability is derived from a combination of unique properties.

Examples of economic benefits include high drying capacity and low desorption energy.

BASF Sorbead R is mainly used for the dynamic drying of compressed air, natural gas, technical gases (e.g. N<sub>2</sub>, O<sub>2</sub> and CO<sub>2</sub>) and liquefied gases.

### Typical distribution of grain size

2.8 – 6.0 mm

2.0 – 5.0 mm

1.5 – 3.4 mm

0.5 – 1.5 mm

### Typical properties

<b>Chemical Composition</b>	SiO <sub>2</sub>	97 wt. %
	Al <sub>2</sub> O <sub>3</sub>	3 wt. %
<b>Surface Area (BET)</b>	750 m <sup>2</sup> /g	

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<b>Pore Volume</b>	0.4 cm <sup>3</sup> /g	
<b>Equilibrium Capacity for Water Vapor at 25° C</b>	10 % R.H. 80 % R.H.	6.5 wt. % 36.3 wt. %
<b>Packed Bulk Density</b>	50 lb/ft <sup>3</sup>	
<b>Crushing Strength</b>	>200 N	
<b>Attrition Rate</b>	<0.05wt. %	
<b>Liquid Water Resistant</b>	No	

### 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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