

## Ceramic Balls

Also known as Keramikkugeln

Ceramic balls supplied by BASF are spherical ceramic bed supports ideal for use in gas processing applications. The inert composition and uniform size and shape make the product ideal for fixed bed systems.

### Product Applications

The manufacturing process for Keramikkugeln produces a highly spherical uniform and robust bed support media with high resistance to mechanical and thermal shock. Maximum operating temperature is demonstrated to be higher than 980°C. The low porosity and water absorption guarantee minimal interaction between the bed support and reactor feed streams.

The chemical inertness and physical integrity of the Keramikkugeln spheres ensure reliable bed support performance. Systems with Keramikkugeln operate without worry of dusting, breakage or cracking of the bed support media, providing more assurance of successful catalyst performance overall.

### Product Benefits

- Uniform sphere size
- High crush strength
- Low abrasion
- Chemically inert

### Packaging

- 35 kg plastic sack
- 140 kg Steel drum

### Available Sphere Sizes

- 1/8" (3.2 mm)
- 1/4" (6.4 mm)
- 3/8" (9.5 mm)
- 1/2" (13 mm)
- 3/4" (19 mm)
- 1" (25 mm)
- 2" (51 mm)

### Chemical Composition (wt%)

SiO <sub>2</sub>	<80
Al <sub>2</sub> O <sub>3</sub>	>20
Fe <sub>2</sub> O <sub>3</sub>	<1.5
Na <sub>2</sub> O+K <sub>2</sub> O	<4
TiO <sub>2</sub>	<2
CaO	<0.5
MgO+CaO	<1

These indicative properties do not represent process capabilities nor specifications.

Sphere size	1/8" (3.2 mm)	1/4" (6.4 mm)	3/8" (9.5 mm)	1/2" (13 mm)	3/4" (19 mm)	1" (25 mm)	2" (51 mm)
Nominal size (mm)	3-5	6-8	9-11	11-14	19-21	23-28	48-55
Bulk density (kg/m <sup>3</sup> )	1300-1400						
Min. crush strength (kg)	23	55	150	170	530	635	1100

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## 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 catalyst business, priority is given to developing new and improved products that enable the chemical industry transformation to net-zero emissions.

BASF's process catalysts business is part of the company's Performance Chemicals division. The division's portfolio also includes fuel and lubricant solutions, as well as oilfield chemicals and mining solutions. Customers from a variety of industries including Chemicals, Plastics, Consumer Goods, Energy & Resources and Automotive & Transportation benefit from our innovative solutions.

**BASF - We create chemistry**

### Americas

BASF Corporation  
Phone: +1-732-205-5000  
Email: [catalysts-americas@basf.com](mailto:catalysts-americas@basf.com)

### Asia Pacific

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

### Europe, Middle East, Africa

BASF Services Europe GmbH  
Phone: +49-30-2005 5000  
Email: [catalysts-europe@basf.com](mailto:catalysts-europe@basf.com)

**[chemical-catalysts-and-adsorbents.basf.com/adsorbents](https://chemical-catalysts-and-adsorbents.basf.com/adsorbents)**

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