

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

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)

Packaging

- 35 kg plastic sack
- 140 kg Steel drum

Chemical Composition (wt%)

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

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 (g/cm ³)	2.3-2.5	2.3-2.5	2.3-2.5	2.3-2.5	2.3-2.5	2.3-2.5	2.3-2.5
Min. crush strength (kg)	23	55	150	170	530	635	1100

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BASF - We create chemistry

Americas

BASF Corporation
25 Middlesex/Essex Turnpike
Iselin, New Jersey, 08830, USA
Tel : +1-732-205-5000
Fax: +1-732-205-7725
Email: catalysts-america@basf.com

Asia Pacific

BASF (China) Company Limited
300 Jiang Xin Sha Road,
Pudong, Shanghai 200137
P.R. China
Tel: +86-21-2039 2549
Fax: +86-21-2039 4800-2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF De Meern BV Catalysts
The Netherlands
Tel: +31-30-666 9437
Email: catalysts-europe@basf.com

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