



Alumina Grinding Media



Zibo BOMAI Ceramic Materials Co.,Ltd

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Alumina Grinding Media



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BOMAI alumina grinding series include alumina grinding balls, alumina bricks and alumina liner. Products are widely used in ball mill, pot ball mill and other equipment, is widely used in steel, coal, mineral processing, power and other industries.



BOMAI Alumina Grinding Media Advantages

The company has full set of advanced production equipment of wear-resistant products. At same time we maintain good relations with domestic and foreign enterprises, scientific research institutions to ensure offer high quality wear-resistant materials and engineering services.

- ❖ Products are mainly composed of high-quality alumina with high purity, which greatly reduces the pollution caused by grinding materials.
- ❖ Good wear resistance, effectively extend the service life of the equipment.
- ❖ Corrosion resistance, high density, mechanical strength, etc.
- ❖ Easy installation.



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Alumina Grinding Balls

BOMAI alumina grinding balls has features of low abrasion, high hardness, corrosion resistance, impact resistance, economical and practical. Which are widely applied to ball stirred mill, stripping machine, polishing machine, sand mill ect.



Series	BMGA320	BMGA360	BMGA370	BMGA375
AL ₂ O ₃ (%)	75±0.5	92±0.5	90±0.5	95±0.5
Hardness(Mohs)	8	9	9	9
Bulk density(g/cm ³)	>3.2	>3.6	>3.7	>3.7
Self wearing rate(‰)	<0.15	<0.1	<0.05	<0.1
Dimension(mm)	Φ 1-60	Φ 0.5-90	Φ 1-90	Φ 1-90

Yttrium Stabilized Zirconia Beads

Yttrium Stabilized Zirconia Beads has features of PPM abrasion grade, large specific gravity, high toughness, no crackle.



Series	ZrO ₂ (%)	Hardness(Mohs)	Bulk density(g/cm ³)	Self wearing rate	Dimension(mm)
BMYG600	95±0.5	9	>6.0	2ppm	Φ 1-50

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Cerium stabilized zirconia beads

- ❖ Excellent cost and performance.
- ❖ Smooth surface.
- ❖ High cost-effective grinding bead with high-density.
- ❖ High fracture toughness and nice impact resistance that causes no break under high speed impact.



Series	ZrO ₂ (%)	Hardness(Mohs)	Bulk density(g/cm ³)	Self wearing rate	Dimension(mm)
BMSG620	80±0.5	8	>6.1	4ppm	Φ 1-10

Zirconium Silicate Ball

Zirconium silicate ball has features of low abrasion, corrosion resistance, impact resistance, economical and practical.



Series	ZrO ₂ (%)	Hardness(Mohs)	Bulk density(g/cm ³)	Self wearing rate(‰)	Dimension(mm)
BMGG410	54±0.5	8	>4.1	<0.01	Φ 1-20

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Zirconium toughened aluminum composite ball

Zirconium toughened aluminum composite ball are widely used in ball stirred mill, stirred mill, stripping machine, polishing machine, sand mill ect.

Zirconium aluminum composite ball is a kind of grinding ball developed in China. It consists of a specific calcined alumina powder, a certain amount of zirconium powder and other raw materials, which are ground to a certain degree of fineness by a ball mill, granulated by spray, and then pressed into shape by isostatic pressing machine and calcined at high temperature by a tunnel kiln. Its emergence for the pursuit of high grinding cost - effective customers to provide a choice, enriched the ceramic grinding ball product line.



Series	ZrO ₂ (%)	Hardness(Mohs)	Bulk density(g/cm ³)	Self wearing rate(‰)	Dimension(mm)
BMTA320	10±0.5	7	>3.2	<0.02	Φ 1-10
BMTA380	15±0.5	8	>3.8	<0.015	Φ 1-10
BMTA450	60±0.5	8	>4.5	<0.01	Φ 1-10
BMTA470	70±0.5	8	>4.7	<0.008	Φ 1-10

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Alumina cylinder

Standard dimension:

Φ 12*12mm

Φ 20*20mm

Φ 25*25mm

Φ 35*35mm

Φ 40*45mm

Φ 50*55mm



Chemical Composition and Physical Properties:

Al ₂ O ₃	92%±1
Bulk Density	3.6g/cm ³
Self Wear Rate	0.6g/kg.h



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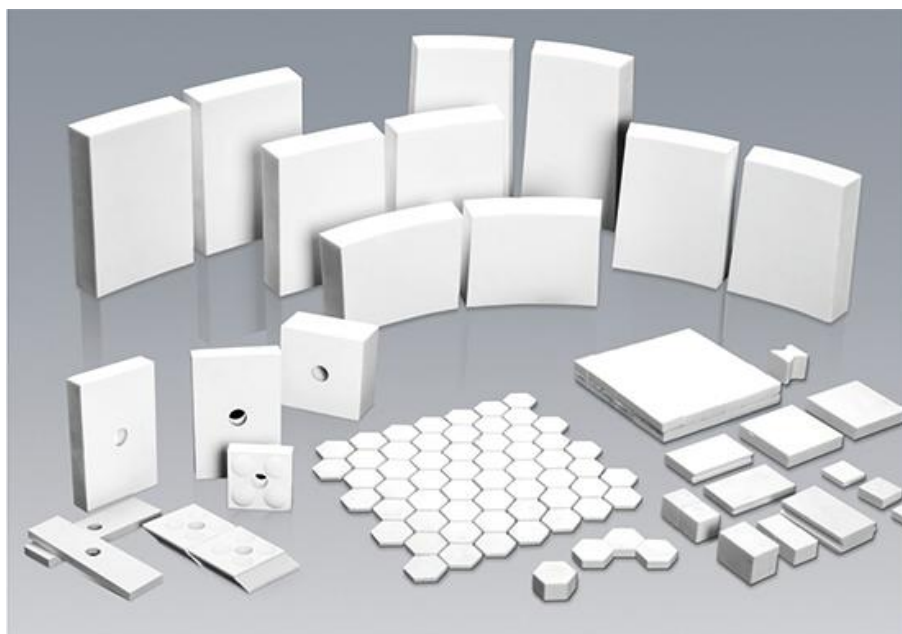
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Wear resistant ceramic lining

High hardness, super abrasion-resistance, excellent compact resistance, corrosion resistance, regular and smooth shape, high stability, easy to handle. It can be applied in all kind of industrial wear ares.

Wear resistant ceramic lining are widely used in hoppers, rubber belts, pipes, elbows, valves, fan blades, chutes, ball mills, feeders, bunkers and other processing equipment of the steel, thermal power, cement, coal, mine, port chemical industry and so on.



Series	BM92	BMT95	BMZTA	BMZR
AL ₂ O ₃ (%)	92±0.5	95±0.5	74±0.5	——
ZrO ₂ (%)	——	——	25±0.5	94.8±0.5
Bending strength(MPa)	>220	>280	>400	>1000
Fracture toughness(MPam ^{1/2})	>3.6	>3.9	>7	>12
Rockwell hardness(HRA)	>82	>88	>90	>88
Loss bulk(cm ³)	<0.5	<0.3	<0.15	<0.1
Bulk density(g/cm ³)	>3.6	>3.7	>4.1	<5.9

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Wear resistant ceramic lining brick

Being the wear resistant liner for the ball mill, alumina lining brick is the best choice to increase the grinding efficiency and reduce the grinding cost. Currently, alumina lining brick is being widely used in ceramic, cement, paint, pigment, chemical, pharmacy and coatings industries.



Item/Type	Length(mm)	Width(mm)	Height(mm)
RECTANGLE BRICK	150	50	90/70/60/50/40
TRAPEZOID BRICK	150	50/45	90/70/60/50/40
FLAKE BRICK	150	25	90/70/60/50/40
HALF-RECTANGLE BRICK	75	50	90/70/60/50/40
HALF-TRAPEZOID BRICK	75	50/45	90/70/60/50/40



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