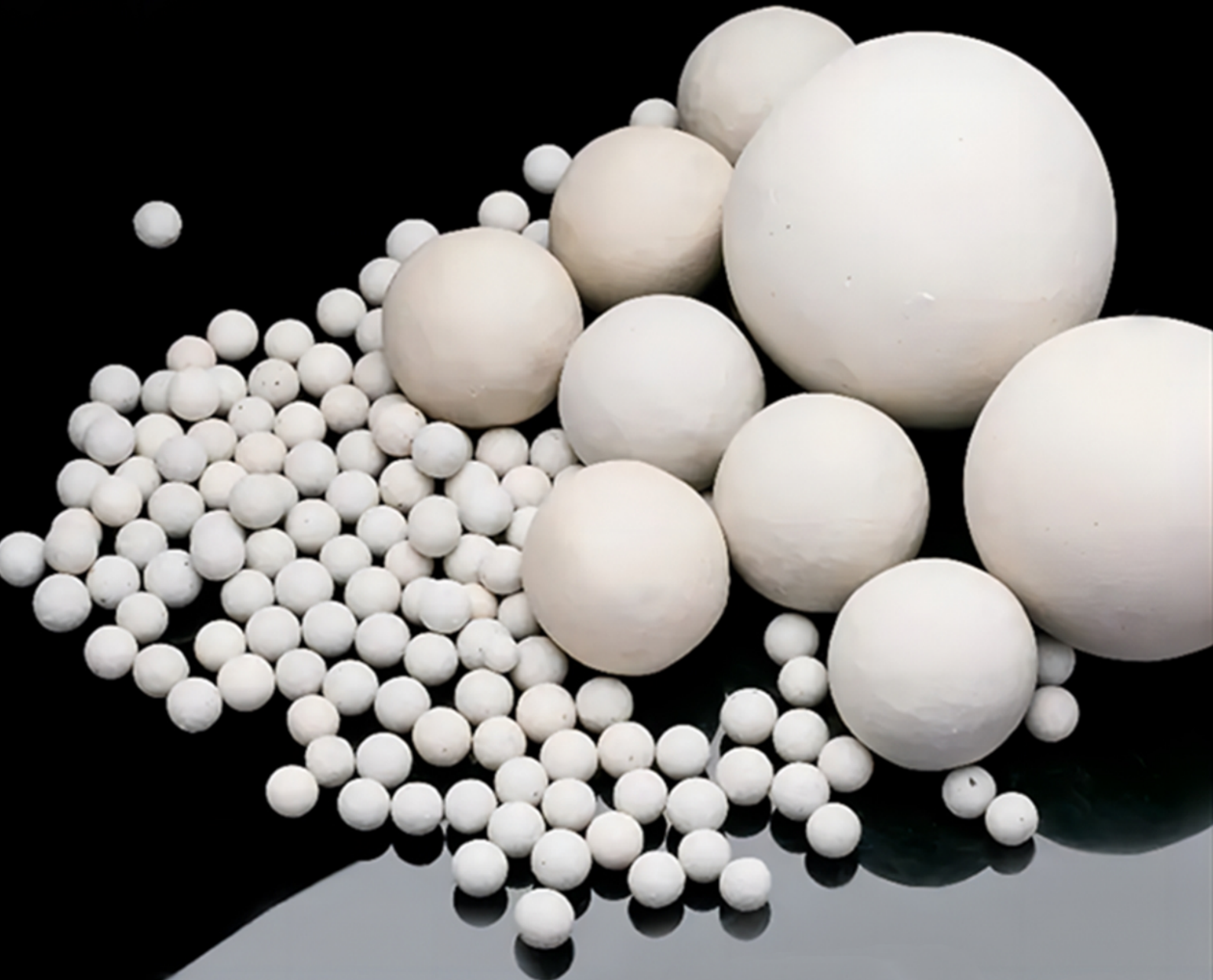




ZHONGLONG CHEMICAL

75 % to 92%
HIGH DENSITY
HIGH PURITY
ALUMINA CERAMIC

Chemically Inert
Smooth Tough
Sapphire Hard





75%
Alumina Ball

CLAYDE

75% alumina ball is a type of ceramic ball used in various applications such as grinding and milling. Some of its features include:

High hardness: 75% alumina balls have a high hardness rating, which makes them ideal for use in grinding and milling applications where hardness is essential.

Wear resistance: The high hardness of 75% alumina balls also gives them excellent wear resistance, which ensures that they last longer and require less frequent replacement.

Chemical resistance: Alumina is resistant to many chemicals, making 75% alumina balls suitable for use in corrosive environments.

High-temperature resistance: Alumina can withstand high temperatures, and 75% alumina balls can be used in high-temperature applications without degradation.

Low density: 75% alumina balls have a low density, which makes them suitable for use in applications where weight is a concern.

Non-magnetic: Alumina is non-magnetic, making 75% alumina balls suitable for use in applications where magnetic interference is a concern.

Cost-effective: Compared to other high-performance ceramics, 75% alumina balls are relatively cost-effective, making them an attractive option for various industrial applications.

CHEMICAL PROPERTIES

Al ₂ O ₃	75%
SiO ₂	20%
Fe ₂ O ₃	0.4%
Na ₂ O	0.8%
Others	3.8%

PHYSICAL PROPERTIES

Colour	Light Yellow
Surface Finish	Smooth
Bulk Density	3.15± 0.05 g/cm ³
Porosity	Nil
Water absorption	0.02%
Hardness on Mohs scale	8
Hardness on Vickers Scale	1664 HV ₅
Self wearing loss (within 24hours)	0.01%
Anti-compression rate(Mpa)	2000 MPa
Crushing strength(3mm)	>800N
Sphericity	95%

PACKAGE

25kgs or 500kgs/bag, 1,000kgs or 1,250kgs/pallet, 20 pallets in a 20'container.



ZHONGLONG 75% ALUMINA BALLS CAN PROVIDE THE FOLLOWING SIZES

Broad Fraction Size (mm)	
30	40
50	60
70	80

** If you don't find the size you want, we provide customized services.*

ZHONGLONG ALUMINA BALL (CIP METHOD)

Dimension	Dia.(mm)
30	30±1.5
40	40±2
50	50±2
60	60±2
70	70±3
80	80±3

** Tips on the feeding proportion of our alumina balls in service: Its highly recommended that our products(30. 40) accounts for 50% of the total amount whereas the bigger balls (50. 60. 70) are arranged at 5:3:2 to match small balls(30. 40). General speaking the feeding amount of all balls shall be kept at least 51% of the total ball mill volume to guarantee the grinding efficiency.*

Special tip: The best grinding effect could be achieved if the grinded materials (lurry) is kept at 50-60 cm to the mill feeding entrance when the grinding operation is finished.

ZHONGLONG ALUMINA BALL (ROLLING METHOD)

Dimension	Dimension error (mm)
30	30±2
40	40±2
50	50±2
60	60±2

CALCULATION METHOD

$$M=3.14 \times R^2 \times D \times L \times (25\% - 50\%) \div 1000$$

M: Total quantity of ceramic ball

D: Density (g/cm³)

R: Radius of the mill (cm)

L: Length of the mill (cm)



FEATURES

Zhonglong 92% alumina ball is a type of ceramic grinding media made from high-purity alumina powder with a content of 92% alumina. Here are some of its characteristics:

High hardness: 92% alumina balls have a high hardness rating of 9 on the Mohs scale, making them extremely wear-resistant and able to withstand high impact forces.

High density: With a density of 3.6g/cm³, 92% alumina balls are heavier than most other grinding media, which helps improve grinding efficiency.

High temperature resistance: 92% alumina balls can withstand high temperatures up to 1400, making them suitable for use in high-temperature environments.

Chemical resistance: 92% alumina balls are resistant to corrosion by most acids and alkalis, making them suitable for use in harsh chemical environments.

Low water absorption: 92% alumina balls have a low water absorption rate, which helps prevent contamination of the materials being ground.

High purity: 92% alumina balls are made from high-purity alumina powder, which ensures that they do not contaminate the materials being ground.

Wide application: 92% alumina balls are widely used in the ceramics, coatings, and chemical industries for grinding and dispersing various materials.

CHEMICAL PROPERTIES

Al ₂ O ₃	92%
SiO ₂	7%
Fe ₂ O ₃	0.1%
Na ₂ O	0.4%
Others	0.5%

PHYSICAL PROPERTIES

Colour	White
Surface Finish	Smooth
Bulk Density	3.63± 0.05 g/cm ³
Porosity	Nil
Water absorption	0.01%
Hardness on Mohs scale	9
Hardness on Vickers Scale	2370HV ₅
Self wearing loss (within 24hours)	0.01%
Anti-compression rate(Mpa)	2000 MPa
Crushing strength(3mm)	>1050N
Sphericity	95%

PACKAGE

25kgs or 500kgs/bag, 1,000kgs or 1,250kgs/pallet, 20 pallets in a 20' container.

ZHONGLONG 92% ALUMINA BALLS CAN PROVIDE THE FOLLOWING SIZES

Broad Fraction Size (mm)

0.5	1.0	2.0	3	4
5	6	8	10	13
15	20	25	30	35
40	50	60	70	80

** If you don't find the size you want, we provide customized services.*

ZHONGLONG ALUMINA BALL (CIP METHOD)

Dimension	Dia.(mm)
15	15±1
17	17±1
20	20±1
25	25±1.5
30	30±1.5
40	40±2
50	50±2
60	60±2
70	70±3
80	80±3

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Special tip: The best grinded effect could be achieved if the grinded materials (lurry) is kept at 50-60 cm to the mill feeding entrance when the grinding operation is finished.

ZHONGLONG ALUMINA BALL (ROLLING METHOD)

Dimension	Dimension error (mm)
1-6	±1.5
8-15	±1
17-25	±1.5
30-50	±2





CLAYDE

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