

# Global Zirconia Ball Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Zirconia Ball market size is expected to reach \$ 1969 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Global sales of zirconia balls reached 30,000 tons in 2025, with an average price of US\$40,428 per ton.

Zirconia balls (ZrO<sub>2</sub> ceramic balls) are dense ceramic microspheres made primarily of zirconium oxide, stabilized (commonly Y<sub>2</sub>O<sub>3</sub>, CeO<sub>2</sub>, etc.) and then sintered at high temperatures. They have a density ~6.0 g cm<sup>-3</sup>, a hardness HV 10 ~1200, good toughness, and low abrasion at the ppm level, and are specifically designed for wet/dry ultrafine grinding and dispersion requiring high shear and high purity.

Zirconia spheres are made from zircon sand (ZrSiO<sub>4</sub>), which is processed into high-purity zirconium oxide powder (ZrO<sub>2</sub> ~ 94%) through high-temperature alkali fusion or plasma decomposition. Then, 3-8 mol% of yttrium oxide (Y<sub>2</sub>O<sub>3</sub>) or cerium oxide (CeO<sub>2</sub>) is added as a stabilizer. After spray granulation, isostatic pressing is used for molding. The price of zircon sand fluctuates with resources in Australia and South Africa, accounting for more than 60% of the ex-factory cost of zirconium oxide products. The stabilizer and granulation energy consumption together account for approximately 15%. Cost structure: High-purity zirconium powder (including stabilizer) approximately 60-65%; high-temperature sintering and polishing (above 1650°C) energy consumption 10-12%; equipment depreciation and labor 10%; food-grade pickling, FDA/EU testing, packaging, and transportation 5-8%; profit and capital costs 10-12%. Taking food-grade yttrium stabilized beads as an example, the price per ton in 2025 will be approximately 140,000 RMB, 80-120% higher than ordinary industrial-grade zirconium beads.

This report studies the global Zirconia Ball production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Zirconia Ball and provides market size (US\$ million) and Year-over-Year (YoY) Growth,

considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Zirconia Ball that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Zirconia Ball total production and demand, 2021-2032, (Kilotons)

Global Zirconia Ball total production value, 2021-2032, (USD Million)

Global Zirconia Ball production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Zirconia Ball consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Zirconia Ball domestic production, consumption, key domestic manufacturers and share

Global Zirconia Ball production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Zirconia Ball production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Zirconia Ball production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Zirconia Ball market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Saint-Gobain ZirPro, Tosoh, Dynamech, Toray, Orient Zirconic, CENOTEC, CHEMCO, Kallex Company, Zhejiang Humo Polishing Grinder Manufacture, Nikkato Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Zirconia Ball market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Zirconia Ball Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Zirconia Ball Market, Segmentation by Type:

95% Yttrium Stable

80% Cerium Stable

65% Zirconium-Aluminum Composite

#### Global Zirconia Ball Market, Segmentation by Molding Process:

Roll Forming

Isostatic Pressing

Titration

#### Global Zirconia Ball Market, Segmentation by Size:

Microspheres 0.05?0.2 mm

Small Beads 0.3?1 mm

Spheres 3?10 mm

## Global Zirconia Ball Market, Segmentation by Application:

Lithium Battery Materials

Electronic Ceramics

Chemical Catalysis

Food & Pharmaceutical

Coatings/Inks

Other

## **Companies Profiled:**

Saint-Gobain ZirPro

Tosoh

Dynamech

Toray

Orient Zirconic

CENOTEC

CHEMCO

Kallex Company

Zhejiang Humo Polishing Grinder Manufacture

Nikkato Corporation

Sigmund Lindner

Amatsuji Steel Ball MFG

Ortech

Boca Bearing

Salem Specialty Ball

Redhill

Jinsheng Ceramic

Tan Kong

**Key Questions Answered:**

1. How big is the global Zirconia Ball market?
2. What is the demand of the global Zirconia Ball market?
3. What is the year over year growth of the global Zirconia Ball market?
4. What is the production and production value of the global Zirconia Ball market?
5. Who are the key producers in the global Zirconia Ball market?
6. What are the growth factors driving the market demand?

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