

Global Zirconium Oxychloride for Ceramics and Refractories Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Zirconium Oxychloride for Ceramics and Refractories market size is expected to reach \$ 201 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global production of zirconium oxychloride for ceramics and refractories reached 71,000 metric tons, with an average price of \$1,966 per ton.

Zirconium oxychloride ($\text{ZrOCl}_2 \cdot 8\text{H}_2\text{O}$) also known as zirconium dichloride oxide used in ceramics and refractories refers to products with purity levels meeting the application requirements of traditional industrial sectors such as ceramic glazes, structural ceramics, and refractory materials. It serves as a fundamental intermediate raw material in the zirconium chemical industry chain. Through calcination, it can be converted into industrial-grade zirconium dioxide (zirconia), which is subsequently used to whiten and harden ceramic glazes, ensure high-temperature stability in refractories, and toughen structural ceramics. In the ceramics industry, it is primarily used to produce zirconia-based ceramic materials; when added to glazes, it improves surface hardness and gloss while enhancing chemical stability. In the refractory sector, it is a key raw material for producing support plates for electronic ceramics, as well as refractory materials used in molten glass and metallurgical applications.

The raw material system for this product centers on zircon sand (ZrSiO_4), supplemented by chemical agents such as caustic soda (NaOH) and hydrochloric acid (HCl). Zircon sand is the sole mineral source of zirconium; global resources are highly concentrated in Australia and South Africa, and China relies heavily on imports, which account for over 90% of its supply. Producing one ton of zirconium oxychloride

consumes approximately 0.6?0.7 tons of zircon sand, meaning fluctuations in sand prices directly impact production costs?manufacturers typically raise product prices in tandem with increases in zircon sand costs. Caustic soda is the core auxiliary agent in the alkali fusion process used to decompose zircon sand, requiring a high-temperature reaction (600?800?C) with the sand. Hydrochloric acid is utilized in the acid leaching transformation and pickling stages. Additionally, some enterprises are exploring the recovery of associated elements?such as zirconium, scandium, and rare earths?from the crystallization mother liquor to improve the efficiency of comprehensive resource utilization. In terms of cost structure, raw material costs represent the largest expenditure for zirconium oxychloride used in ceramics and refractories, typically accounting for 50%?60% of total production costs. Zircon sand and caustic soda constitute the vast majority of these raw material costs, directly determining the product's cost floor. Energy costs account for approximately 15%?25%; the alkali fusion process requires high temperatures and consumes significant amounts of steam and electricity, while the concentration and crystallization stages also require substantial thermal energy to evaporate water. Environmental treatment costs make up about 10%?15%; the alkali fusion method generates roughly 0.5?0.7 tons of silicon slag and large volumes of alkaline wastewater per ton of zirconium oxychloride produced. Storing acidic silicon slag occupies land and pollutes the environment, and treating waste alkaline liquor is costly. Although process improvements can convert waste silicon slag into silica by-products for resource recovery, the initial investment required is substantial. Equipment depreciation and maintenance costs account for approximately 5%?10%; the equipment for the alkali fusion method is relatively simple (cast-iron pots, rotary kilns, reactors, filter presses, etc.), requiring less investment than the boiling chlorination method. Labor and management costs account for approximately 5%?10%.

This report studies the global Zirconium Oxychloride for Ceramics and Refractories production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Zirconium Oxychloride for Ceramics and Refractories 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 Zirconium Oxychloride for Ceramics and Refractories that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Zirconium Oxychloride for Ceramics and Refractories total production and demand, 2021-2032, (Tons)

Global Zirconium Oxychloride for Ceramics and Refractories total production value, 2021-2032, (USD Million)

Global Zirconium Oxychloride for Ceramics and Refractories production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Zirconium Oxychloride for Ceramics and Refractories consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Zirconium Oxychloride for Ceramics and Refractories domestic production, consumption, key domestic manufacturers and share

Global Zirconium Oxychloride for Ceramics and Refractories production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Zirconium Oxychloride for Ceramics and Refractories production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Zirconium Oxychloride for Ceramics and Refractories production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Zirconium Oxychloride for Ceramics and Refractories 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 Changyu Holding Group, Jiangxi Jingan High Technology, Orient Zirconic Ind Sci & Tech, Yixing Gaoyang Chemical, Shandong Hongyuan, Anhui Kangda Zirconium Industry, Sanxiang Advanced Materials, IMERYS, Saint-Gobain, DKK Group, 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 Zirconium Oxychloride for Ceramics and Refractories market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Zirconium Oxychloride for Ceramics and Refractories Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Zirconium Oxychloride for Ceramics and Refractories Market, Segmentation by Type:

ZrO₂+HfO₂??36.0%

ZrO₂+HfO₂??35.0%?35.5%

Global Zirconium Oxychloride for Ceramics and Refractories Market, Segmentation by Process:

One-acid, One-alkali Method

Two-acid, Two-alkali Method

Boiling Chlorination Method

Other

Global Zirconium Oxychloride for Ceramics and Refractories Market, Segmentation by Product Form:

Crystals

Solution

Global Zirconium Oxychloride for Ceramics and Refractories Market, Segmentation by Application:

Structural Ceramics

Functional Ceramics

Ceramic Cutting Tools

Ceramic Glazes

High-temperature Refractories

Other

Companies Profiled:

Changyu Holding Group

Jiangxi Jingan High Technology

Orient Zirconic Ind Sci & Tech

Yixing Gaoyang Chemical

Shandong Hongyuan

Anhui Kangda Zirconium Industry

Sanxiang Advanced Materials

IMERYS

Saint-Gobain

DKK Group

ATI Materials

Key Questions Answered:

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

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