

Global Alkali Fusion Zirconium Oxychloride Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Alkali Fusion Zirconium Oxychloride market size was valued at US\$ 552 million in 2025 and is forecast to a readjusted size of US\$ 811 million by 2032 with a CAGR of 5.3% during review period.

In 2025, global production of alkali fusion zirconium oxychloride reached 254,000 metric tons, with an average price of \$2,115 per ton.

Alkali fusion zirconium oxychloride ($\text{ZrOCl}_2 \cdot 8\text{H}_2\text{O}$) utilizes zircon sand (ZrSiO_4) and caustic soda (NaOH) as primary raw materials. The process involves high-temperature fusion and decomposition, water washing to remove silicon, acid conversion/hydrolysis using hydrochloric acid, and concentration followed by crystallization. Also known as the "one-acid, one-alkali" process, this is the mainstream production route adopted by Chinese manufacturers; it offers advantages such as flexible operating conditions, stable product quality, lower equipment investment, and suitability for large-scale production. The core reaction involves fusing zircon sand with caustic soda at approximately 700°C to form sodium zirconate (Na_2ZrO_4) and sodium silicate (Na_2SiO_3), followed by hydrochloric acid leaching and conversion, ultimately yielding zirconium oxychloride crystals.

The raw material system for this process centers on zircon sand (ZrSiO_4) and caustic soda (NaOH), supplemented by hydrochloric acid (HCl), water, and flocculants. 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 0.595–0.605 tons of zircon sand; a production line processing 10,000

tons of zircon sand annually generates about 200 tons of unreacted zircon sand that requires recovery and treatment. Caustic soda is the most critical chemical raw material in the alkali fusion process; it must be heated to 600–800°C in cast-iron pots or rotary kilns to melt and undergo a solid-state reaction with the zircon sand. In recent years, the high price of industrial caustic soda flakes has been a primary factor driving up production costs for the alkali fusion method. In addition, hydrochloric acid is used in significant quantities during the conversion acidolysis and pickling stages; flocculants are used to coagulate and precipitate silicic acid following acidolysis; and water is used for washing to remove silicon and clean the materials. Some enterprises are exploring the use of soda ash (Na_2CO_3) instead of caustic soda to reduce costs; however, this requires raising the alkali fusion temperature to 1050–1100°C, placing higher demands on equipment, and has not yet been widely adopted.

Regarding the cost structure, raw materials represent the largest expenditure for the alkali fusion process of producing zirconium oxychloride, typically accounting for 50%–60% of total production costs; zircon sand and caustic soda together make up the vast majority of these raw material costs. Energy costs account for approximately 15%–25%; the alkali fusion stage requires high temperatures (600–800°C) and consumes significant steam and electricity, while the concentration and crystallization stages also require substantial thermal energy to evaporate water. Producing one ton of zirconium oxychloride generates 5–6 tons of alkaline wastewater, resulting in high energy consumption for evaporation treatment. Environmental treatment costs account for about 10%–15%; the alkali fusion process generates approximately 0.5–0.7 tons of silicon slag and 5–6 tons of alkaline wastewater per ton of zirconium oxychloride produced. Storing acidic waste silicon slag occupies land and pollutes the environment, and treating waste alkaline liquor is expensive. Although process improvements can convert waste silicon slag into silicon dioxide by-products for resource utilization, the initial investment is substantial. Equipment depreciation and maintenance costs account for roughly 5%–10%; the equipment for the alkali fusion process is relatively simple (cast-iron pots, rotary kilns, reactors, filter presses, etc.), requiring less investment than the fluidized-bed chlorination process. Labor and management costs account for approximately 5%–10%.

This report is a detailed and comprehensive analysis for global Alkali Fusion Zirconium Oxychloride market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Alkali Fusion Zirconium Oxychloride market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Alkali Fusion Zirconium Oxychloride market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Alkali Fusion Zirconium Oxychloride market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Alkali Fusion Zirconium Oxychloride market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Alkali Fusion Zirconium Oxychloride

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Alkali Fusion Zirconium Oxychloride market based on the following parameters - company overview, sales quantity, revenue, 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, DKK Group, ATI Materials, Saint-Gobain, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Alkali Fusion Zirconium Oxychloride market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

ZrO₂+HfO₂??36.0%

ZrO₂+HfO₂??35.0%?35.5%

Market segment by Grade

Industrial Grade

High-Purity Grade

Ultra-High-Purity Grade

Market segment by Silicon Removal Process

Traditional Flocculation Method

Conversion-Based Pre-desilication Method

Waste Alkali Neutralization and Recovery Method

Market segment by Application

Zirconium Chemicals

Ceramics and Refractories

Catalysts

Paints and Coatings

Others

Major players covered

Changyu Holding Group

Jiangxi Jingan High Technology

Orient Zirconic Ind Sci & Tech

Yixing Gaoyang Chemical

Shandong Hongyuan

Anhui Kangda Zirconium Industry

Sanxiang Advanced Materials

DKK Group

ATI Materials

Saint-Gobain

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Alkali Fusion Zirconium Oxychloride product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Alkali Fusion Zirconium Oxychloride, with price, sales quantity, revenue, and global market share of Alkali Fusion Zirconium Oxychloride from 2021 to 2026.

Chapter 3, the Alkali Fusion Zirconium Oxychloride competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Alkali Fusion Zirconium Oxychloride breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Alkali Fusion Zirconium Oxychloride market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Alkali Fusion Zirconium Oxychloride.

Chapter 14 and 15, to describe Alkali Fusion Zirconium Oxychloride sales channel,

distributors, customers, research findings and conclusion.

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