

Global Zirconium Market Size study, by Occurrence Type (Zirconia, Zircon, and Other Occurrence Types), Application (Zircon Opacifier, Zircon Flour/Milled Sand, Zircon Chemicals, Refractories (Zirconia), and Zircon Metal) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GB1708A21DCFEN.html>

Date: May 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GB1708A21DCFEN

Abstracts

Global Zirconium Market is valued approximately USD 1.92 billion in 2023 and is anticipated to grow with a growth rate of more than 6.80% over the forecast period 2024-2032. Zirconium is a chemical element with the symbol Zr and atomic number 40. It is a lustrous, grayish-white, strong transition metal that resembles titanium and highly resistant to corrosion. Global zirconium market is used in various industrial applications, specially in the nuclear industry, where it is used in nuclear reactors as cladding for fuel rods due to its excellent resistance to corrosion by water and does not absorb neutrons, making it an ideal material for use in nuclear power stations. Various nuclear reactors may have more than 100,000 metres of zirconium alloy tubing. With niobium, at low temperatures, zirconium is superconductive and utilized in making superconducting magnets. Furthermore, Zirconium metal is safeguarded by a thin oxide layer making it extremely resistant to corrosion by acids, alkalis and seawater and it is extensively used by the chemical industry.

The surging demand for Zircon flour/sand is one of the substantial drivers boosting growth for the global zirconium market. It is derived mainly from zirconium silicate mineral deposits serves as a key raw material in various industries due to its unique properties and versatile applications. In ceramics industry, zirconium-based ceramics produced by incorporating zircon flour/sand into ceramic formulations, exhibit exceptional thermal and chemical resistance, making them ideal for applications in refractories, foundry coatings, and ceramic glazes. Therefore, growing construction activities, especially in emerging economies, fuel demand for zirconium market. In

In addition, zirconium alloys formed by alloying zirconium with other metals such as nickel, titanium, or iron, can be used for various applications in aerospace, automotive and chemical processing industries. Thus, the surging demand for zircon flour/sand across numerous industries including ceramics, chemicals, and metallurgy, stresses its pivotal role in driving growth in the global zirconium market. However, high cost of production and a volatility in uranium prices, on the other hand, will stifle market growth between 2022 and 2032.

The key regions considered for the global Zirconium market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia-Pacific was the largest regional market in terms of revenue and expected to develop at the fastest rate over the forecast period. The Asia Pacific Zirconium market includes countries such as India, China, Japan, South Korea, and Australia; these countries are observing strong industrialization, urbanization, and infrastructure development, which contribute to the demand for zirconium-based materials across the region. In countries such as China and India, rapid urbanization and population growth lead to an increased demand for residential and commercial infrastructure, driving the zirconium market in tiles, sanitaryware, and architectural industries. Moreover, zirconium alloys are used for their lightweight and corrosion-resistant properties in various manufacturing sectors, such as automotive and aerospace industries, finding application in critical components such as turbine blades, engine parts, and structural components.

Major market players included in this report are:

Australian Strategic Materials Ltd

Base Resources Limited

Binh Dinh Minerals Company

Doral Mineral Sands Pty Ltd

Iluka Resources Limited

Kenmare Resources plc.

Lanka Mineral Sands Limited

MZI Resources Ltd

Rio Tinto

Tronox Holdings PLC

The detailed segments and sub-segments of the market are explained below:

By Occurrence Type

Zircon

Zirconia

Other Occurrence Types

By Applications

Zircon Flour/Milled Sand

Zircon Opacifier

Refractories (Zirconia)

Zircon Chemicals

Zircon Metal

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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