

Zirconium Market Report by Occurrence Type (Zircon, Zirconia, and Others), Form (Crystal, Powder), End Use (Ceramics, Chemicals, Foundry, Refractories, and Others), and Region 2024-2032

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Abstracts

The global zirconium market size reached US\$ 1.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 3.5 Billion by 2032, exhibiting a growth rate (CAGR) of 6.8% during 2024-2032. The increasing zirconium demand in the nuclear power industry for fuel rods and cladding, the expanding ceramics sector, the rising application in aerospace and automotive industries for lightweight alloys, the growing zirconium use in refractory materials for steel and glass sectors, and the emergence of zirconium-based coatings for corrosion resistance in chemical processing industries are factors fueling the market growth.

Zirconium (Zr) is a lustrous, gray-white transition metal commonly found in the Earth's crust. It is primarily obtained through a series of extraction and purification processes from the mineral zircon, which contains a high concentration of the element. One of its prominent uses is in nuclear reactors, where zirconium alloys serve as cladding for fuel rods due to their exceptional corrosion resistance and low neutron absorption. Additionally, zirconium compounds find use in the production of ceramics, refractory materials, and abrasives owing to their high melting point and hardness. Its biocompatibility makes it valuable in medical implants, such as dental crowns and artificial joints. There are two common types of zirconium available, including zirconium dioxide (ZrO2) and zirconium sponge.

The global zirconium market is influenced by the increasing demand for zirconium in the nuclear power industry as a crucial component in fuel rods and cladding drives. Moreover, the rapidly expanding ceramics industry, utilizing zirconium compounds for



their high heat resistance and durability, contributes significantly to the market expansion. In line with this, the rising product application in aerospace and automotive sectors for lightweight alloys is favoring the market growth. Additionally, the growing use of zirconium in the production of refractory materials for steel and glass industries is boosting the market growth. Apart from this, the surge in demand for zirconium-based chemicals in various end-user applications, such as pigments, catalysts, and abrasives, is fueling the market growth. Furthermore, the expanding nuclear medicine sector utilizing zirconium isotopes for diagnostic imaging and cancer treatments is propelling market expansion.

Zirconium Market Trends/Drivers: Increasing demand in the nuclear power industry

The global zirconium market is witnessing a substantial boost in demand due to its crucial role in the nuclear power industry. Zirconium is a vital component in nuclear fuel rods and cladding, as it possesses excellent corrosion resistance and low neutron absorption properties. These attributes ensure the safe and efficient functioning of nuclear reactors, which are essential for generating clean and sustainable energy. As the global emphasis on clean energy solutions intensifies, the demand for nuclear power is expected to rise, subsequently driving the demand for zirconium. Additionally, ongoing efforts to enhance nuclear safety standards and the construction of new nuclear power plants in emerging economies contribute to the growth of this market segment.

Flourishing ceramics industry

The ceramics industry represents another significant driver of the global zirconium market. Zirconium compounds, particularly zirconium dioxide (zirconia), are widely used in ceramic applications due to their exceptional heat resistance, mechanical strength, and low thermal conductivity. In the ceramics sector, zirconium-based materials are employed in the production of high-performance refractories, abrasives, and glazes, which find application in various industries such as construction, electronics, and aerospace. The growing construction activities, especially in emerging economies, and the increasing demand for advanced electronic components further contribute to the rising consumption of zirconium in the ceramics industry. As technological advancements continue to drive innovation in ceramics, zirconium's utility in this sector is expected to expand further.

Rising application in aerospace and automotive sectors



Zirconium's unique properties, such as its high strength-to-weight ratio and excellent corrosion resistance, have made it increasingly relevant in the aerospace and automotive industries. The quest for lightweight materials to improve fuel efficiency and reduce emissions has led to the adoption of zirconium-based alloys in the manufacturing of aircraft components, automotive parts, and gas turbine engines. Moreover, the aerospace sector's growth, driven by an upsurge in air travel and defense spending, creates a robust demand for zirconium alloys. In the automotive industry, zirconium alloys are utilized in critical components, like exhaust systems and catalytic converters, to withstand high temperatures and harsh environmental conditions. With both aerospace and automotive sectors undergoing rapid advancements, zirconium's presence is anticipated to strengthen in these industries, bolstering the global zirconium market.

Zirconium Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global zirconium market report, along with forecasts at the global and regional levels from 2024-2032. Our report has categorized the market based on occurrence type, form and end use.

Breakup by Occurrence type:

Zircon Zirconia Others

Zircon dominates the market

The report has provided a detailed breakup and analysis of the market based on the occurrence type. This includes zircon, zirconia, and others. According to the report, zircon represented the largest segment.

The dominance of the zircon segment in the market can be attributed to the unique properties of zircon that makes it an indispensable material in various industries. Its high refractoriness, low thermal expansion, and excellent chemical resistance make it ideal for use in ceramics and refractory applications. Moreover, the growing demand for zircon in the construction industry fuels its market dominance. Zircon is used as an opacifier in ceramic glazes and as a pigment in tiles and sanitaryware, driving its consumption in the construction sector. In line with this, the extensive utilization of



zircon in foundry applications, where it acts as a mold and core material, contributes significantly to its market share.

Furthermore, zircon's role in the nuclear industry as a critical component in nuclear fuel cladding adds to its prominence. Additionally, the burgeoning demand for zircon in the production of zirconium-based chemicals for various applications, including catalysts and abrasives, further strengthens its market dominance. Apart from this, the increasing adoption of zircon in the jewelry industry, primarily as a gemstone, amplifies its market position. The confluence of these drivers ensures the continued dominance of the zircon segment in the market, making it a valuable commodity across diverse industrial sectors.

Breakup by Form:

Crystal Powder

Powder holds the largest share in the market

A detailed breakup and analysis of the market based on the form has also been provided in the report. This includes crystal and powder. According to the report, powder represented the largest segment.

The powder segment's prominence in the market is due to several factors. The form's free-flowing nature allows for efficient handling, storage, transportation, mixing, and blending, enhancing productivity and minimizing waste. These attributes lead to improved performance and homogeneity in final applications, making powders preferred in industries like pharmaceuticals, food processing, and cosmetics. Manufacturers also appreciate the customization options, as they can adjust the particle size, morphology, and composition to meet specific needs, offering a vast range of product variations. This adaptability serves various industries and applications, boosting demand for powdered products. Additionally, the environmental aspect supports the powder segment, as powdered products typically necessitate less water and energy during production. This results in a lower carbon footprint and reduced environmental impact, aligning with a growing focus on sustainability and responsible manufacturing practices, further encouraging the use of powders.

Breakup by End Use:



Ceramics Chemicals Foundry Refractories Others

Ceramics dominate the market

The report has provided a detailed breakup and analysis of the market based on the end use. This includes ceramics, chemicals, foundry, refractories, and others. According to the report, ceramics represented the largest segment.

The ceramics segment holds a dominant position in the market for several compelling reasons, including the exceptional versatility offered by ceramics, which has surged its demand across diverse industries, including construction, electronics, healthcare, and aerospace. Their ability to withstand high temperatures, chemical corrosion, and mechanical stress makes them a preferred choice for critical components in various sectors. In line with this, ceramics possess excellent electrical insulation properties, making them ideal for electronic and semiconductor devices. Their use in electronics continues to grow with the advancement of miniaturization and microelectronics. Moreover, ceramics' biocompatibility and inertness have propelled their adoption in the healthcare industry for medical implants and dental applications. Furthermore, ceramics' eco-friendly nature contributes to their dominance, as they are non-toxic and recyclable. Additionally, the ongoing emphasis on energy efficiency and sustainability in construction drives the use of ceramics in building materials. Moreover, continuous research and development efforts have led to innovations in ceramic materials, enhancing their performance and expanding their applications.

Breakup by Region:

North America United States Canada Asia Pacific China Japan India South Korea





Australia Indonesia Others Europe Germany France United Kingdom Italy Spain Russia Others Latin America Brazil Mexico Others Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest zirconium market share

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share.

Asia Pacific is at the forefront of the global zirconium market due to several intertwined factors. The region's robust industrial growth, particularly in countries like China and India, leads to increased demand for zirconium in various applications such as ceramics, automotive, and electronics. The thriving construction industry also requires zirconium for its properties like hardness and resistance to wear, which is vital for specific construction materials. Moreover, Asia Pacific is home to substantial zirconium reserves, facilitating local production and reducing import dependency. Government initiatives to promote domestic industries and the presence of key manufacturers in the region further fuel the market. Additionally, the rising middle-class population with increased disposable income leads to higher consumption of consumer products that utilize zirconium, thereby favoring the market growth.



Competitive Landscape:

The competitive landscape of the market showcases a dynamic and diverse environment with multiple players vying for market share and prominence. Key industry participants are continuously striving to distinguish themselves through product differentiation, innovation, and strategic partnerships. Market entry barriers, including high capital investments and stringent regulatory requirements, contribute to the existing competitive intensity. Additionally, shifting consumer preferences and evolving market trends necessitate agile business strategies to stay relevant and competitive. The landscape is also influenced by technological advancements, where companies adopting cutting-edge solutions gain a competitive edge. Furthermore, effective marketing campaigns, brand recognition, and customer loyalty programs play pivotal roles in shaping market positions. As the market evolves, mergers and acquisitions are common strategies utilized by companies seeking to consolidate their market presence.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

- Australian Strategic Materials Ltd (ASM)
- Base Resources Limited
- Doral Mineral Sands Pty Ltd. (Iwatani Corporation)
- Eramet SA
- Iluka Resources Limited
- Kenmare Resources Plc
- **Rio Tinto Group**
- Saint-Gobain ZirPro
- **Tosoh Corporation**
- Tronox Holdings Plc
- Recent Developments:

In August 2023, Iluka announced to build one of only a few rare earth oxide refineries globally, at Eneabba in Western Australia. This is ensuing in a strategic partnership with the Australian Government which has granted Iluka with a A\$1.25 billion non-recourse loan to construct the refinery.

In May 2023, Eramet announced to accelerate its CSR commitment with the launch of its first audit within the Initiative for Responsible Mining Assurance system.

In August 2023, Australian Strategic Materials signed a long-term agreement with USA Rare Earth in order to supply neodymium iron boron alloy.

Key Questions Answered in This Report



- 1. What was the size of the global zirconium market in 2023?
- 2. What is the expected growth rate of the global zirconium market during 2024-2032?
- 3. What are the key factors driving the global zirconium market?
- 4. What has been the impact of COVID-19 on the global zirconium market?
- 5. What is the breakup of the global zirconium market based on the occurrence type?
- 6. What is the breakup of the global zirconium market based on the form?
- 7. What is the breakup of the global zirconium market based on the end use?
- 8. What are the key regions in the global zirconium market?
- 9. Who are the key players/companies in the global zirconium market?



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