

Global Oxidic Engineering Ceramics Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G2886D464FABEN.html>

Date: May 2024

Pages: 93

Price: US\$ 3,480.00 (Single User License)

ID: G2886D464FABEN

Abstracts

According to our (Global Info Research) latest study, the global Oxidic Engineering Ceramics market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

There several driving factors that have contributed to the development and importance of oxidic engineering ceramics. These include:

- 1. Properties and Performance:** Oxidic engineering ceramics, such as alumina (Al_2O_3), zirconia (ZrO_2), and silicon dioxide (SiO_2), offer excellent mechanical, thermal, electrical, and chemical properties. These ceramics possess high hardness, strength, wear resistance, thermal stability, electrical insulation, and resistance to corrosion. These properties make them suitable for a wide range of applications in different industries.
- 2. High-Temperature Applications:** Oxidic engineering ceramics can withstand high temperatures without significant degradation in their mechanical and physical properties. They exhibit excellent thermal stability, making them suitable for applications in high-temperature environments, such as gas turbines, heat exchangers, furnace linings, and automotive engine components.
- 3. Wear and Corrosion Resistance:** Oxidic engineering ceramics are highly resistant to wear and corrosion. They can withstand the erosive effects of abrasive materials and harsh chemicals, making them ideal for applications where resistance to wear, abrasion, and chemical attack is critical. Such applications include cutting tools, bearings, seals, and chemical processing equipment.

4. **Electrical and Thermal Insulation:** Oxidic engineering ceramics exhibit high electrical and thermal insulation properties. They can withstand high voltages and resist the flow of electrical current, which is important for applications in electronics, electrical insulation, and high-voltage transmission systems. These ceramics also have low thermal conductivity, making them effective insulators in high-temperature environments.

5. **Biocompatibility:** Some oxidic engineering ceramics, such as alumina and zirconia, are biocompatible, meaning they are compatible with living tissues and do not cause adverse reactions in the body. These ceramics are widely used in medical and dental applications, such as orthopedic implants, dental implants, and prosthetics.

6. **Design Flexibility:** Oxidic engineering ceramics offer design flexibility due to their ability to be shaped and fabricated into various complex geometries. They can be formed into intricate shapes using techniques like powder metallurgy, tape casting, and 3D printing. This adaptability enables the production of customized and intricate components for specific applications.

7. **Availability and Cost:** Oxidic engineering ceramics are abundant and readily available raw materials. This availability, combined with established manufacturing processes, contributes to their lower cost compared to other advanced ceramic materials. This cost-effectiveness has driven their adoption in various applications where their unique properties are advantageous.

In summary, the driving factors behind the development and importance of oxidic engineering ceramics include their superior properties and performance, suitability for high-temperature applications, wear and corrosion resistance, electrical and thermal insulation, biocompatibility, design flexibility, and cost-effectiveness. These factors have led to the wide utilization of oxidic engineering ceramics in a diverse range of industries, including aerospace, automotive, electronics, energy, medical, and chemical processing.

The Global Info Research report includes an overview of the development of the Oxidic Engineering Ceramics industry chain, the market status of Medical Application (Single Oxide Ceramics, Composite Oxide Ceramics), Environmental Application (Single Oxide Ceramics, Composite Oxide Ceramics), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Oxidic Engineering Ceramics.

Regionally, the report analyzes the Oxidic Engineering Ceramics markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Oxidic Engineering Ceramics market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Oxidic Engineering Ceramics market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Oxidic Engineering Ceramics industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., Single Oxide Ceramics, Composite Oxide Ceramics).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Oxidic Engineering Ceramics market.

Regional Analysis: The report involves examining the Oxidic Engineering Ceramics market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Oxidic Engineering Ceramics market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Oxidic Engineering Ceramics:

Company Analysis: Report covers individual Oxidic Engineering Ceramics manufacturers, suppliers, and other relevant industry players. This analysis includes

studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Oxidic Engineering Ceramics. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Medical Application, Environmental Application).

Technology Analysis: Report covers specific technologies relevant to Oxidic Engineering Ceramics. It assesses the current state, advancements, and potential future developments in Oxidic Engineering Ceramics areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Oxidic Engineering Ceramics market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Oxidic Engineering Ceramics market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Single Oxide Ceramics

Composite Oxide Ceramics

Market segment by Application

Medical Application

Environmental Application

Mechanical Application

Major players covered

Saint-Gobain Ceramic Materials

NTK Technical Ceramics

Ceradyne Inc

Mcdanel Advanced Ceramic Technologies

Rauschert Steinbach GmbH

Coorstek

Ceramtec

Kyocera

Morgan Advanced Materials

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:

Global Oxidic Engineering Ceramics Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 20...

Chapter 1, to describe Oxidic Engineering Ceramics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Oxidic Engineering Ceramics, with price, sales, revenue and global market share of Oxidic Engineering Ceramics from 2019 to 2024.

Chapter 3, the Oxidic Engineering Ceramics competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Oxidic Engineering Ceramics breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Oxidic Engineering Ceramics market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Oxidic Engineering Ceramics.

Chapter 14 and 15, to describe Oxidic Engineering Ceramics sales channel, distributors, customers, research findings and conclusion.

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