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Global Technical Ceramics Market Size Study, by Material (Oxide, Non-Oxide), by Product (Monolithic Ceramics, Ceramic Coatings, Ceramic Matrix Composites), by End-Use Industry (Electronics & Semiconductor, Automotive, Energy & Power, Industrial, Medical, Military & Defense, Others) and Regional Forecasts 2022-2032

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Abstracts

Global Technical Ceramics Market is valued approximately at USD 10.85 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.20% over the forecast period 2024-2032. Technical ceramics, also known as high-performance or engineering ceramics, are inorganic, non-metallic materials known for their unique combination of thermal and physical properties. These attributes make them highly functional and ideally suited for various technical applications requiring high temperature, corrosion and wear resistance, and extended service life. These characteristics drive the adoption of technical ceramics across multiple industries, including electronics, semiconductors, energy & power, and industrial manufacturing. The growth of the technical ceramics market is primarily fueled by the material's insulating and conductive properties, which are fundamental in the production of electronics and semiconductor products. Their compatibility with high temperatures makes them indispensable in energy & power applications and industrial manufacturing processes. Additionally, the thermal shock resistance and high stability offered by technical ceramics further boost their adoption in medical, consumer goods, and military & defense industries. However, the high costs associated with technical ceramics pose a significant restraint on market growth. Despite this, the trend towards miniaturization in various applications presents new growth opportunities for manufacturers focusing on producing smaller ceramic products.

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The market is segmented based on material, product, end-use industry, and region. By material type, the market is divided into oxide ceramics and non-oxide ceramics. By product, it is categorized into monolithic ceramics, ceramic coatings, and ceramic matrix composites. The end-use industries include electronics & semiconductors, automotive, energy & power, industrial, medical, military & defense, and others.

The key regions considered for the global Technical Ceramics market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. Asia-Pacific is a dominating region in the Technical Ceramics market in terms of revenue. The market growth in the region is being attributed to factors including well-established industries such as automotive, electronics & electricals, and energy & power, which drive the demand for technical ceramics. Major contributors to the regional growth include China, India, and Japan, driven by robust automotive sales and rapid development in the consumer electronics sector. Whereas, the market in North America is anticipated to grow at a significant rate over the forecast period fueled by the established automotive industry, growth in the semiconductor sector, and the expanding consumer electronics market.

Major market players included in this report are:

KYOCERA Corporation

Albemarle Corporation

Morgan Advanced Materials plc

Rauschert GmbH

McDanel Advanced Ceramic Technologies

CoorsTek Inc.

Saint-Gobain S.A.

3M

NGK Spark Plug Co., Ltd.

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KCC CORPORATION

Superior Technical Ceramics

Ceradyne Inc.

Ortech Incorporated

Murata Manufacturing Co. Ltd.

Momentive Performance Materials Inc.

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

By Material

- Oxide
- Non-Oxide

By Product

- Monolithic Ceramics
- Ceramic Coatings
- Ceramic Matrix Composites (CMC)

By End Use Industry

- Electronics & Semiconductor
- Automotive
- Energy & Power
- Industrial

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- Medical
- Military & Defense
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- ROE

Asia Pacific

- China
- India
- Japan

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- 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.

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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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