Technical Ceramics Market by Material, by Product, by End-User Industry, and by Region - Trends & Forecasts to 2019

Description:
Technical Ceramics Market by Material (Oxides, Non-oxides), by Product (Monolithic Ceramics, Ceramic Matrix composites, Ceramic Coatings, Others), by End-User Industry (Electronics, Automotive, Energy & Power, Others), and by Region - Trends & Forecasts to 2019

Technical ceramics is defined as a highly developed, high-strength ceramic material, which is primarily non-metallic and inorganic and possesses specific functional attributes. Technical ceramics are used for engineering applications which possesses inherent characteristics such as ferroelectric behaviour, semi conductivity, non-linear resistance, and high stiffness.

Asia-Pacific is the global leader in the consumption of technical ceramics and this dominance is expected to continue till 2019. China is the key market in the region, consuming more than half of the demand for technical ceramics, followed by Japan, South Korea, and India where consumption is growing steadily. Increase in the consumption of technical ceramics for monolithic ceramics, ceramic matrix composites, and ceramic coatings have been observed in Asia-Pacific due to continued industrialization and rise in the manufacturing sector of the region. The continuous growth and innovation, along with industry consolidations, are projected to ascertain a bright future for the industry.

Monolithic ceramics is one of the major product types of technical ceramics market. Ceramics that include fabrication and polycrystalline microstructure without the reinforcement are referred to as monolithic ceramics. On the basis of these attributes the various types of monolithic ceramics are segmented into silicon nitride and zirconium oxide, zirconium carbide, aluminum nitride, silicon carbide and aluminum oxide. Monolithic ceramics are widely used in various end-user industries such as process industries, automotive, aerospace, power generation, military & defense and transportation, electrical and electronics, machinery and medical applications.

This study estimates the market value for technical ceramics and projects the same by 2019. As a part of quantitative analysis, the study segments the market by material, product and end-user industry at country level with the current market estimation and forecast till 2019. The countries covered in the report are China, Japan, India, South Korea, Brazil, Germany, the U.K., France, the Netherlands, and the U.S. The segmentation by material includes oxides and non-oxides.

The segmentation by product includes monolithic ceramics, ceramic matrix composites, ceramic coatings and others. The segmentation by end-user industry includes electronics, automotive, energy & power, industrial, medical, military & defense and others. Further as a part of qualitative analysis, the research provides a comprehensive review of major market drivers, restraints, opportunities, burning issues, challenges, and key issues in the market. It also includes the company profiling and competitive strategies adopted by different market players, including Coorstek Inc. (U.S.), CeramTec GMBH (Germany), Kyocera Corporation (Japan), Morgan Advanced Materials (U.K.) and Saint-Gobain Ceramic Material (U.S.), McDanel Advanced Ceramic Technologies LLC (U.S.), Ceradyne Inc (U.S.), Rauschert Steinbach GMBH (Germany), Superior Technical Ceramics (U.S.), and NGK Spark Plug Co., Ltd (Japan).

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