

Ceramic Matrix Composites Market Projected to Garner Significant Revenues by 2030

Ceramic Matrix Composites Market Expected to Reach \$ 7.53 Billion by 2030 — Exactitude Consultancy

LUTON, BEDFORDSHIRE, UNITED KINGDOM, August 14, 2024 /EINPresswire.com/ -- Ceramic Matrix Composites (CMCs) are advanced materials that combine ceramic fibers with a ceramic matrix, offering exceptional properties like high-temperature resistance, lightweight, and improved toughness compared to



ceramic matrix composites

traditional ceramics. These materials are designed to withstand extreme conditions, making them ideal for use in industries such as aerospace, defense, automotive, and energy. CMCs are commonly used in turbine engines, brake systems, and heat shields, where their ability to perform in high-stress environments is crucial. Although the production of CMCs is complex and

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Rising demand for Ceramic Matrix Composites (CMCs) driven by their superior heat resistance, lightweight properties, and growing aerospace applications"

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costly, ongoing research and innovation are helping to reduce these barriers, paving the way for broader adoption in various high-performance applications.

The Ceramic Matrix Composites Market is expected to grow at 12.19% CAGR from 2024 to 2030. It is expected to reach above USD 7.53 Billion by 2030 from USD 2.73 Billion in 2023.

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The global Ceramic Matrix Composites has been comprehensively analyzed and the different companies that occupy a large percentage of the market share in the regions mentioned have

been listed out in the report. Industry trends that are popular and are causing a resurgence in the Ceramic Matrix Composites market growth are identified. A strategic profile of the companies is also carried out to identify the various subsidiaries that they own in the different regions and who are responsible for daily operations in these regions.

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General electric company, Rolls-Royce, Axiom Materials, SGL Carbon, 3M Company, COI Cermaics, Lancer Systems, CoorsTek, CFC Carbon Co. LTd, Ultramet, UBE industries. and others.

efficiency and reduce emissions in the automotive industry is driving the demand for CMCs, particularly in high-performance components like brake systems and engine parts.

advancements in CMC manufacturing processes, making them more cost-effective and expanding their potential applications.

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Ceramic Matrix Composites Market By Type, 2020-2029, (USD Billion), (Kilotons).

Silicon Carbide

Oxide
Carbon
Ceramic Matrix Composites Market By Application, 2020-2029, (USD Billion), (Kilotons).
Aerospace
Defense
Energy & Power

Electrical & Electronics

U.K. leading in aerospace, automotive, and energy sectors. The European Union's focus on reducing carbon emissions and improving energy efficiency is driving the adoption of CMCs in various industries. The region's strong R&D capabilities and advanced manufacturing technologies further support market growth.

Significant expansion in the automotive industry across the globe is one of the key factors creating a positive outlook for the market. CMCs are widely used in automotive applications due to their high tensile strength and tolerance to high temperatures. In line with this, manufacturers are focusing on replacing heavy steel and iron in automobiles with lightweight composite materials, which, in turn, is favoring the market growth. Moreover, the widespread product adoption in the aerospace sector to create parts for aircraft, including engine nozzles, nose caps,

tail cones, fins, rudders, leading edges, body flaps, and panels, is acting as another growth-inducing factor. Apart from this, the development of novel multifunctional CMC with the use of nanoscience and nanotechnology to improve its properties, toughness, and electrical conductivity is providing an impetus to the market growth. Additionally, the increasing application of CMCs in electronic circuits due to their high thermal conductivity is propelling the market growth.

What will the market size be in 2030 and what will the growth rate be?
What are the key market trends?
What is driving this market?
What are the challenges to market growth?
Who are the key vendors in this market space?
What are the market opportunities and threats faced by the key vendors?
What are the strengths and weaknesses of the key vendors?

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- competitive analysis of 5 key market players.
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