

**Ceramic Matrix Composites Market by Fiber Type (Continuous Fiber, Woven Fiber, Other Fibers), Fiber Material (Alumina Fiber, SiC Fiber, Other Fiber), Matrix Type (Oxide/Oxide Ceramic Matrix Composites, C/SiC Ceramic Matrix Composite, C/C Ceramic Matrix Composite, SiC/SiC Ceramic Matrix Composite), End-use Industry (Aerospace & Defense, Automotive, Energy & Power, Industrial, Other End-use Industries), and Region - Global Forecast to 2030**

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**Report description:**

The ceramic matrix composites market is projected to grow from USD 12.0 billion in 2024 to USD 21.61 billion by 2030, at a CAGR of 10.3% in terms of value during the forecast period. Due to Carbon/SiC matrix type weight savings benefits, outstanding thermal resistance, and mechanical strength, it is used in applications that require highest temperatures. C/SiC composites are used in the aerospace, defense, and high-tech automobile industries in parts of aircraft, such as braking systems, rocket nozzles, thermal protection systems, and brake discs of sports cars where resistance to extreme thermal and mechanical loads is highly critical. The increasing requirement for fuel efficiency, low emissions, and reliability during operation in new generation aircraft and future automotive systems is further fueling the demand for C/SiC composites. Also, the development of new manufacturing processes, such as chemical vapor infiltration (CVI) and polymer infiltration and pyrolysis (PIP), along with improved product performance at lower production costs makes it a preferred material. Ongoing research & development efforts continue to enhance the properties and expand the range of applications for C/SiC ceramic matrix composites. These exceptional properties make them highly desirable for end-use industries like aerospace, automotive, energy & power, and industrial.

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"In terms of value, the automotive end-use industry accounted for the second largest share of the overall ceramic matrix composites market in 2024."

The automotive end-use segment represented the second-largest market share of the global ceramic matrix composites market, in terms of value, due to the use of CMCs in high-performance and luxury automobiles due to their improved efficiency, safety, and durability. Composites of carbon/silicon carbide have been widely applied in automotive brake discs, clutches, and other parts which undergo high-stress conditions because of their outstanding properties, such as wear resistance, light weight, and resistance to high heat without loss of performance characteristics. The increasing demand for electric vehicles and sports cars, which need refined materials to increase range, acceleration, and braking capability has increased the scope of the ceramic matrix composites in industry. Vehicle weight reduction is attributed to policies for the automotive industry to comply with strict emission standards and increase fuel economy, which has also contributed to the upsurge in the use of advanced lightweight materials, such as ceramic matrix composites. All these elements make the automotive industry the second-largest market for ceramic matrix composites in terms of end-use industry.

"The continuous fiber type segment is expected to register the second-highest CAGR during the forecast period, in terms of value."

Based on fiber type, the continuous fiber type segment is expected to register the second-highest CAGR during the forecast period in the ceramic matrix composites market due to the fact that their structure offers superior strength, durability, and thermal resistance, than the short or chopped fiber type. Continuous fibers are continuous over the entire length of a material, and this permits the quick transfer of the loadings, high fracture toughness, and robustness to cracking under harsh thermal and mechanical conditions. These benefits render the continuous fiber as super applicable in high-performance applications, such as in aircraft engines, gas turbine parts, spacecraft heat shields, and braking systems, where lightweight and high-temperature application is paramount. Moreover, industries are also moving toward materials that can facilitate fuel efficiency, reduce emissions, and longer lifespan of components, all of which is within the time frame of continuous fiber ceramic matrix composites. Consequently, their good growth outlook is attributable to the prospects of their expanded use in aerospace, defense, energy, and advanced automotive applications.

"During the forecast period, the ceramic matrix composites market in Europe is projected to register the second-largest market share."

The ceramic matrix composite market has been studied in North America, Europe, Asia Pacific, the Middle East, Africa, and Latin America. Europe accounted for the second-largest market share in 2024, whereas North America accounted for the largest market share in 2024. At the third place in terms of market share stood Asia Pacific. Europe is expected to have the second-largest share in ceramic matrix composites during the forecast period because the region is endowed with a robust industrial base, multiple manufacturing facilities, and concentration of the major players in the industry. Germany, France, and UK are major countries manufacturing ceramic matrix composites and have multiple research centers. Companies such as CeramTec (Germany) and SAFRAN Ceramics (France) are engaged in manufacturing high-performance ceramic matrix composite components in the aerospace, automotive, and energy industries. The European aerospace industry comprises companies such as Airbus, Rolls-Royce, and Safran who have been implementing ceramic matrix composites in jet engines, exhaust systems, and thermal protection systems, to enhance efficiency and capability under severe operational conditions. Also, automotive industries in the region, particularly Germany and Italy have adopted ceramic matrix composites in high-performance braking systems and lightweight structural components in achieving high standards of emissions and performance. Current research conducted by organizations like the Fraunhofer Institute of Germany is still further developing the ceramic matrix composite processing technologies that further enhance the growth of Europe in the global market. Thus, Europe's strong presence in these industries contributes significantly to the region's dominance in the ceramic matrix composites market.

This study has been validated through interviews with industry experts globally. These primary sources have been divided into the following three categories:

- By Company Type- Tier 1- 35%, Tier 2- 25%, and Tier 3- 40%
- By Designation- C Level- 35%, Director Level- 30%, and Others- 35%

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-□By Region- North America- 20%, Europe- 25%, Asia Pacific- 25%, Latin America- 10%, Middle East & Africa (MEA)-20%

The report provides a comprehensive analysis of company profiles:

Prominent companies include GE Aerospace (US), Rolls-Royce plc (UK), SGL Carbon (Germany), Coorstek Inc. (US), Lancer Systems (US), Axiom Materials (US), Ultramet (US), CFC CARBON CO., Ltd. (China), Spirit Aerosystems, Inc. (US), COIC (US), and Mitsubishi Chemical Group Corporation (Japan), among others.

Research Coverage

This research report categorizes the Ceramic Matrix Composites Market by Fiber Type (Continuous Fiber, Woven Fiber, Other Fibers), Fiber Material (Alumina Fiber, SiC Fiber, Other Fiber), Matrix Type (Oxide/Oxide Ceramic Matrix Composites, C/SiC Ceramic Matrix Composite, C/C Ceramic Matrix Composite, SiC/SiC Ceramic Matrix Composite), End-use Industry (Aerospace & Defense, Automotive, Energy & Power, Industrial, Other End-use Industries), and Region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the study includes thorough information on the important elements impacting the growth of the ceramic matrix composites market, such as drivers, restraints, challenges, and opportunities. A comprehensive review of the top industry participants has been conducted in order to provide insights into their business overviews, solutions, and services; important strategies; contracts, partnerships, and agreements. Product and service launches, mergers and acquisitions, and current developments in the ceramic matrix composites sector are all covered. The report includes a competitive study of the upcoming startups in the ceramic matrix composites industry ecosystem.

Reasons to buy this report:

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall ceramic matrix composites market and their subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Analysis of Key Drivers (Increasing demand for ceramic matrix composites in emerging countries, Higher demand for lightweight and fuel-efficient vehicles), restraints (Higher costs as compared to other metals and alloys), opportunities (Growing use of lightweight components in various end-use industries), and challenges (Limited use due to reparability and recyclability) influencing the growth of the ceramic matrix composites market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and product & service launches in the ceramic matrix composites market.

-□Market Development: Comprehensive information about lucrative markets ? the report analyzes the ceramic matrix composites market across varied regions.

-□Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the ceramic matrix composites market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like GE Aerospace (US), Rolls-Royce plc (UK), SGL Carbon (Germany), Coorstek Inc. (US), Lancer Systems (US), Axiom Materials (US), Ultramet (US), CFCCarbon Co., Ltd. (China), Spirit Aerosystems, Inc. (US), COIC (US), and Mitsubishi Chemical Group Corporation (Japan), among others in the ceramic matrix composites market.

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