

Global Ceramic Matrix Composites (CMC) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Ceramic Matrix Composites (CMC) market size was valued at USD 1769.2 million in 2023 and is forecast to a readjusted size of USD 2199.4 million by 2030 with a CAGR of 3.2% during review period.

Composite materials are comprised of at least two parts: the reinforcement, which provides special mechanical properties such as stiffness or strength, and the matrix material, which holds everything together. Ceramic matrix composites (CMCs) are a special type of composite material in which both the reinforcement (refractory fibers) and matrix material are ceramics. In some cases the same kind of ceramic is used for both parts of the structure, and additional secondary fibers may also be included. Because of this, CMCs are considered a subgroup of both composite materials and ceramics.

Ceramic matrix composites behave much differently from conventional ceramics, and are far different from the high-performance metal alloys that used to be implemented. Like ceramics, they are hard and stable at higher temperatures. But they are also very lightweight (one-third the weight of the nickel superalloys they often replace) and possess significantly greater fracture toughness and thermal shock resistance.

There is an extremely wide range of CMC applications, such as: Heat exchangers, Turbine blades, Stator vanes, High-performance braking systems, Immersion burner tubes, Bulletproof armor, Heating elements, etc. The list of uses is growing quickly, too. CMC components are used in Electrical Engineering, Spaceflight, Aviation, electrical, and electronics industries, just to name a few.

GE Aviation, Safran, Rolls-Royce Group and CoorsTek are the top 4 players of Ceramic Matrix Composites, with about 52% market shares.

The Global Info Research report includes an overview of the development of the Ceramic Matrix Composites (CMC) industry chain, the market status of Aerospace (Oxides, SiC), Defense (Oxides, SiC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Ceramic Matrix Composites (CMC).

Regionally, the report analyzes the Ceramic Matrix Composites (CMC) 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 Ceramic Matrix Composites (CMC) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Ceramic Matrix Composites (CMC) 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 Ceramic Matrix Composites (CMC) 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 Units), revenue generated, and market share of different by Type (e.g., Oxides, SiC).

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 Ceramic Matrix Composites (CMC) market.

Regional Analysis: The report involves examining the Ceramic Matrix Composites (CMC) 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 Ceramic Matrix Composites (CMC) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Ceramic Matrix Composites (CMC):

Company Analysis: Report covers individual Ceramic Matrix Composites (CMC) 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 Ceramic Matrix Composites (CMC). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Aerospace, Defense).

Technology Analysis: Report covers specific technologies relevant to Ceramic Matrix Composites (CMC). It assesses the current state, advancements, and potential future developments in Ceramic Matrix Composites (CMC) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Ceramic Matrix Composites (CMC) 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

Ceramic Matrix Composites (CMC) 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

Oxides

SiC

Carbon

Others

Market segment by Application

Aerospace

Defense

Energy & Power

Electrical & Electronics

Others

Major players covered

3M Company

Applied Thin Films

COI Ceramics

SGL Carbon Company

General Electric Company

Ube Industries

CeramTec International

CoorsTek, Inc.

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:

Chapter 1, to describe Ceramic Matrix Composites (CMC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ceramic Matrix Composites (CMC), with price, sales, revenue and global market share of Ceramic Matrix Composites (CMC) from 2019 to 2024.

Chapter 3, the Ceramic Matrix Composites (CMC) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ceramic Matrix Composites (CMC) 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 Ceramic Matrix Composites (CMC) 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 Ceramic Matrix Composites (CMC).

Chapter 14 and 15, to describe Ceramic Matrix Composites (CMC) sales channel, distributors, customers, research findings and conclusion.

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