

Global Ceramic Matrix Composites (CMC) Market Growth 2025-2031

<https://marketpublishers.com/r/G56E0CDCB2A7EN.html>

Date: October 2025

Pages: 90

Price: US\$ 3,660.00 (Single User License)

ID: G56E0CDCB2A7EN

Abstracts

The global Ceramic Matrix Composites (CMC) market size is predicted to grow from US\$ 1851 million in 2025 to US\$ 2265 million in 2031; it is expected to grow at a CAGR of 3.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

LP Information, Inc. (LPI) ' newest research report, the "Ceramic Matrix Composites (CMC) Industry Forecast" looks at past sales and reviews total world Ceramic Matrix Composites (CMC) sales in 2024, providing a comprehensive analysis by region and market sector of projected Ceramic Matrix Composites (CMC) sales for 2025 through 2031. With Ceramic Matrix Composites (CMC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ceramic Matrix Composites (CMC) industry.

This Insight Report provides a comprehensive analysis of the global Ceramic Matrix Composites (CMC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ceramic Matrix Composites (CMC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ceramic Matrix Composites (CMC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ceramic Matrix Composites (CMC) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ceramic Matrix Composites (CMC).

This report presents a comprehensive overview, market shares, and growth opportunities of Ceramic Matrix Composites (CMC) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Oxides

SiC

Carbon

Others

Segmentation by Application:

Aerospace

Defense

Energy & Power

Electrical & Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

3M Company

Applied Thin Films

COI Ceramics

SGL Carbon Company

General Electric Company

Ube Industries

CeramTec International

CoorsTek, Inc.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ceramic Matrix Composites (CMC) market?

What factors are driving Ceramic Matrix Composites (CMC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ceramic Matrix Composites (CMC) market opportunities vary by end market size?

How does Ceramic Matrix Composites (CMC) break out by Type, by Application?

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