

Global Ceramic Matrix Composites (CMC) and Carbon Matrix Composites (CAMC) Market Size study & Forecast, by Product (Carbon Matrix Composites (CAMC), Ceramic Matrix Composites (CMC), Hybrid Matrix Composites), by Application (Aerospace & Defense, Automotive, Energy & Power, Industrial, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Ceramic Matrix Composites (CMC) and Carbon Matrix Composites (CAMC) Market is valued approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. The Global Ceramic Matrix Composites (CMC) and Carbon Matrix Composites (CAMC) Market refers to the market for advanced materials made from ceramic or carbon fibers that are embedded in a ceramic or carbon matrix. These materials are known for their high strength, stiffness, and thermal resistance, and are used in various applications, including aerospace, defense, energy, automotive, and industrial. The major driving factors for the market growth are increasing demand from aerospace and defense and growing demand for energy efficiency. Moreover, rising investment in research and development and advancement in manufacturing technologies is creating lucrative growth opportunity for the market over the forecast period 2023-2030.

In 2021, the European Space Agency (ESA) announced plans to develop a new rocket engine that would use CMCs in its combustion chamber. The engine is expected to be more efficient and cost-effective than existing rocket engines, and it could be used in future space missions. In 2019, the US Department of Energy announced USD 59 million in funding for advanced manufacturing research, including projects focused on developing new manufacturing methods for CMCs and CAMCs. In 2020, the European

Commission launched a new research and innovation program called Horizon Europe, which includes funding for projects focused on advanced materials, including CMCs and CAMCs. However, the high cost of Ceramic Matrix Composites (CMC) and Carbon Matrix Composites (CAMC) stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Ceramic Matrix Composites (CMC) and Carbon Matrix Composites (CAMC) Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America is a significant market for CMCs and CAMCs, with the US being the largest contributor to the market in the region. The region's market growth is driven by the increasing demand for lightweight and high-performance materials in the aerospace, defense, and automotive industries. The presence of major players such as GE Aviation and United Technologies Corporation in the region also boosts the market growth. Asia-Pacific region is expected to witness fastest growth in the CMCs and CAMCs market during the forecast period. The market growth is driven by the increasing demand for lightweight and high-performance materials in the aerospace and defense industries in countries such as China, Japan, and India. The region is also witnessing significant investment in the development of new manufacturing technologies and research and development activities.

Major market player included in this report are:

3M, Inc.

Astro Met

Biocomposites

Coorstek Inc.

Dot GmbH

Ge Ceramic Composite Products

Hitachi Chemical

Kennametal Inc.

Kyocera Group

Morgan Advanced Materials plc

Recent Developments in the Market:

In 2020, GE Aviation announced a USD 200 million investment in a new CMC manufacturing facility in Huntsville, Alabama. The facility will produce CMC components for aircraft engines, such as turbine shrouds and nozzles, and will create over 300 new jobs.

In 2022, Hexcel Corporation announced the acquisition of Oxford Performance

Materials (OPM), a US-based manufacturer of CAMCs and other advanced materials. The acquisition will strengthen Hexcel's position in the CAMC market and allow the company to expand its product portfolio.

Global Ceramic Matrix Composites (CMC) and Carbon Matrix Composites (CAMC)

Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Carbon Matrix Composites (CAMC)

Ceramic Matrix Composites (CMC)

Hybrid Matrix Composites

By Application:

Aerospace & Defense

Automotive

Energy & Power

Industrial

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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