

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

<https://marketpublishers.com/r/GFE010AA7AD7EN.html>

Date: January 2024

Pages: 115

Price: US\$ 3,480.00 (Single User License)

ID: GFE010AA7AD7EN

Abstracts

According to our (Global Info Research) latest study, the global Aircraft Engine Ceramic Matrix Composite (CMC) market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % 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.

In North America, Europe and Asia-Pacific markets, the core manufacturers of Aircraft Engine Ceramic Matrix Composite (CMC) include GE Aviation, Safran and Rolls-Royce Group etc.

The Global Info Research report includes an overview of the development of the Aircraft Engine Ceramic Matrix Composite (CMC) industry chain, the market status of Civil Aircraft (Oxide, Silicon Carbide), Military Aircraft (Oxide, Silicon Carbide), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Aircraft Engine Ceramic Matrix Composite (CMC).

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

Key Features:

The report presents comprehensive understanding of the Aircraft Engine Ceramic Matrix Composite (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 Aircraft Engine Ceramic Matrix Composite (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 (Kg), revenue generated, and market share of different by Type (e.g., Oxide, Silicon Carbide).

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 Aircraft Engine Ceramic Matrix Composite (CMC) market.

Regional Analysis: The report involves examining the Aircraft Engine Ceramic Matrix Composite (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 Aircraft Engine Ceramic Matrix Composite (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 Aircraft Engine Ceramic Matrix Composite (CMC):

Company Analysis: Report covers individual Aircraft Engine Ceramic Matrix Composite (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 Aircraft Engine Ceramic Matrix Composite (CMC). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Civil Aircraft, Military Aircraft).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Aircraft Engine Ceramic Matrix Composite (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

Aircraft Engine Ceramic Matrix Composite (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

Oxide

Silicon Carbide

Carbon

Others

Market segment by Application

Civil Aircraft

Military Aircraft

Major players covered

GE Aviation

Safran

Rolls-Royce Group

CoorsTek

COI Ceramics

BJS Ceramics GmbH

Composites Horizons

Ultramet

WPX Faser Keramik

Applied Thin Films

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 Aircraft Engine Ceramic Matrix Composite (CMC) product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Aircraft Engine Ceramic Matrix Composite (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 Aircraft Engine Ceramic Matrix Composite (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 Aircraft Engine Ceramic Matrix Composite (CMC).

Chapter 14 and 15, to describe Aircraft Engine Ceramic Matrix Composite (CMC) sales

channel, distributors, customers, research findings and conclusion.

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