

# Aircraft Engine Ceramic Matrix Composite (CMC) Industry Research Report 2023

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## Abstracts

### Highlights

The global Aircraft Engine Ceramic Matrix Composite (CMC) market is projected to reach US\$ million by 2029 from an estimated US\$ million in 2022, at a CAGR of % during 2023 and 2029.

North American market for Aircraft Engine Ceramic Matrix Composite (CMC) is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Asia-Pacific market for Aircraft Engine Ceramic Matrix Composite (CMC) is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

The major global companies of Aircraft Engine Ceramic Matrix Composite (CMC) include GE Aviation, Safran, Rolls-Royce Group, CoorsTek, COI Ceramics, BJS Ceramics GmbH, Composites Horizons, Ultramet and WPX Faser Keramik, etc. In 2022, the world's top three vendors accounted for approximately % of the revenue.

The global market for Aircraft Engine Ceramic Matrix Composite (CMC) in Civil Aircraft is estimated to increase from \$ million in 2022 to \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Considering the economic change due to COVID-19 and Russia-Ukraine War Influence, Oxide, which accounted for % of the global market of Aircraft Engine Ceramic Matrix Composite (CMC) in 2022, is expected to reach million US\$ by 2029, growing at a

revised CAGR of % from 2023 to 2029.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Aircraft Engine Ceramic Matrix Composite (CMC), with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Aircraft Engine Ceramic Matrix Composite (CMC).

The Aircraft Engine Ceramic Matrix Composite (CMC) market size, estimations, and forecasts are provided in terms of output/shipments (Kg) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Aircraft Engine Ceramic Matrix Composite (CMC) market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

The report will help the Aircraft Engine Ceramic Matrix Composite (CMC) manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2018-2023. This all-inclusive report will certainly serve the clients to stay updated and

make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

GE Aviation

Safran

Rolls-Royce Group

CoorsTek

COI Ceramics

BJS Ceramics GmbH

Composites Horizons

Ultramet

WPX Faser Keramik

Applied Thin Films

## Product Type Insights

Global markets are presented by Aircraft Engine Ceramic Matrix Composite (CMC) type, along with growth forecasts through 2029. Estimates on production and value are based on the price in the supply chain at which the Aircraft Engine Ceramic Matrix Composite (CMC) are procured by the manufacturers.

This report has studied every segment and provided the market size using historical data. They have also talked about the growth opportunities that the segment may pose in the future. This study bestows production and revenue data by type, and during the historical period (2018-2023) and forecast period (2024-2029).

## Aircraft Engine Ceramic Matrix Composite (CMC) segment by Type

Oxide

Silicon Carbide

Carbon

Others

## Application Insights

This report has provided the market size (production and revenue data) by application, during the historical period (2018-2023) and forecast period (2024-2029).

This report also outlines the market trends of each segment and consumer behaviors impacting the Aircraft Engine Ceramic Matrix Composite (CMC) market and what implications these may have on the industry's future. This report can help to understand the relevant market and consumer trends that are driving the Aircraft Engine Ceramic Matrix Composite (CMC) market.

## Aircraft Engine Ceramic Matrix Composite (CMC) segment by Application

Civil Aircraft

Military Aircraft

## Regional Outlook

This section of the report provides key insights regarding various regions and the key players operating in each region. Economic, social, environmental, technological, and political factors have been taken into consideration while assessing the growth of the particular region/country. The readers will also get their hands on the revenue and sales data of each region and country for the period 2018-2029.

The market has been segmented into various major geographies, including North America, Europe, Asia-Pacific, South America. Detailed analysis of major countries such as the USA, Germany, the U.K., Italy, France, China, Japan, South Korea, Southeast Asia, and India will be covered within the regional segment. For market estimates, data are going to be provided for 2022 because of the base year, with

estimates for 2023 and forecast value for 2029.

## North America

United States

Canada

## Europe

Germany

France

U.K.

Italy

Russia

## Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

## Latin America

Mexico

Brazil

Argentina

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

## COVID-19 and Russia-Ukraine War Influence Analysis

The readers in the section will understand how the Aircraft Engine Ceramic Matrix Composite (CMC) market scenario changed across the globe during the pandemic, post-pandemic and Russia-Ukraine War. The study is done keeping in view the changes in aspects such as demand, consumption, transportation, consumer behavior, supply chain management, export and import, and production. The industry experts have also highlighted the key factors that will help create opportunities for players and stabilize the overall industry in the years to come.

## Reasons to Buy This Report

This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Aircraft Engine Ceramic Matrix Composite (CMC) market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

This report will help stakeholders to understand the global industry status and trends of Aircraft Engine Ceramic Matrix Composite (CMC) and provides them with information on key market drivers, restraints, challenges, and opportunities.

This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

This report stays updated with novel technology integration, features, and the latest developments in the market

This report helps stakeholders to understand the COVID-19 and Russia-Ukraine War Influence on the Aircraft Engine Ceramic Matrix Composite (CMC) industry.

This report helps stakeholders to gain insights into which regions to target globally

This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Aircraft Engine Ceramic Matrix Composite (CMC).

This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Core Chapters

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Aircraft Engine Ceramic Matrix Composite (CMC) manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price,

gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Aircraft Engine Ceramic Matrix Composite (CMC) by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Aircraft Engine Ceramic Matrix Composite (CMC) in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.



## Contents

### 1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
  - 1.5.1 Secondary Sources
  - 1.5.2 Primary Sources

### 2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Aircraft Engine Ceramic Matrix Composite (CMC) by Type
  - 2.2.1 Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)
    - 1.2.2 Oxide
    - 1.2.3 Silicon Carbide
    - 1.2.4 Carbon
    - 1.2.5 Others
- 2.3 Aircraft Engine Ceramic Matrix Composite (CMC) by Application
  - 2.3.1 Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)
  - 2.3.2 Civil Aircraft
  - 2.3.3 Military Aircraft
- 2.4 Global Market Growth Prospects
  - 2.4.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Estimates and Forecasts (2018-2029)
  - 2.4.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity Estimates and Forecasts (2018-2029)
  - 2.4.3 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Estimates and Forecasts (2018-2029)
  - 2.4.4 Global Aircraft Engine Ceramic Matrix Composite (CMC) Market Average Price (2018-2029)

### 3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by

Manufacturers (2018-2023)

3.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Manufacturers (2018-2023)

3.3 Global Aircraft Engine Ceramic Matrix Composite (CMC) Average Price by Manufacturers (2018-2023)

3.4 Global Aircraft Engine Ceramic Matrix Composite (CMC) Industry Manufacturers Ranking, 2021 VS 2022 VS 2023

3.5 Global Aircraft Engine Ceramic Matrix Composite (CMC) Key Manufacturers, Manufacturing Sites & Headquarters

3.6 Global Aircraft Engine Ceramic Matrix Composite (CMC) Manufacturers, Product Type & Application

3.7 Global Aircraft Engine Ceramic Matrix Composite (CMC) Manufacturers, Date of Enter into This Industry

3.8 Global Aircraft Engine Ceramic Matrix Composite (CMC) Market CR5 and HHI

3.9 Global Manufacturers Mergers & Acquisition

## **4 MANUFACTURERS PROFILED**

4.1 GE Aviation

4.1.1 GE Aviation Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.1.2 GE Aviation Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.1.3 GE Aviation Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.1.4 GE Aviation Product Portfolio

4.1.5 GE Aviation Recent Developments

4.2 Safran

4.2.1 Safran Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.2.2 Safran Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.2.3 Safran Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.2.4 Safran Product Portfolio

4.2.5 Safran Recent Developments

4.3 Rolls-Royce Group

4.3.1 Rolls-Royce Group Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.3.2 Rolls-Royce Group Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.3.3 Rolls-Royce Group Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.3.4 Rolls-Royce Group Product Portfolio

4.3.5 Rolls-Royce Group Recent Developments

4.4 CoorsTek

4.4.1 CoorsTek Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.4.2 CoorsTek Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.4.3 CoorsTek Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.4.4 CoorsTek Product Portfolio

4.4.5 CoorsTek Recent Developments

4.5 COI Ceramics

4.5.1 COI Ceramics Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.5.2 COI Ceramics Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.5.3 COI Ceramics Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.5.4 COI Ceramics Product Portfolio

4.5.5 COI Ceramics Recent Developments

4.6 BJS Ceramics GmbH

4.6.1 BJS Ceramics GmbH Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.6.2 BJS Ceramics GmbH Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.6.3 BJS Ceramics GmbH Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.6.4 BJS Ceramics GmbH Product Portfolio

4.6.5 BJS Ceramics GmbH Recent Developments

4.7 Composites Horizons

4.7.1 Composites Horizons Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.7.2 Composites Horizons Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.7.3 Composites Horizons Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.7.4 Composites Horizons Product Portfolio

4.7.5 Composites Horizons Recent Developments

#### 4.8 Ultramet

4.8.1 Ultramet Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.8.2 Ultramet Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.8.3 Ultramet Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.8.4 Ultramet Product Portfolio

4.8.5 Ultramet Recent Developments

#### 4.9 WPX Faser Keramik

4.9.1 WPX Faser Keramik Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.9.2 WPX Faser Keramik Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.9.3 WPX Faser Keramik Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.9.4 WPX Faser Keramik Product Portfolio

4.9.5 WPX Faser Keramik Recent Developments

#### 4.10 Applied Thin Films

4.10.1 Applied Thin Films Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

4.10.2 Applied Thin Films Aircraft Engine Ceramic Matrix Composite (CMC) Business Overview

4.10.3 Applied Thin Films Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity, Value and Gross Margin (2018-2023)

4.10.4 Applied Thin Films Product Portfolio

4.10.5 Applied Thin Films Recent Developments

### **5 GLOBAL AIRCRAFT ENGINE CERAMIC MATRIX COMPOSITE (CMC) PRODUCTION BY REGION**

5.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

5.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Region: 2018-2029

5.2.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Region: 2018-2023

5.2.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Forecast by Region (2024-2029)

5.3 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

## 5.4 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Region: 2018-2029

### 5.4.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Region: 2018-2023

### 5.4.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Forecast by Region (2024-2029)

## 5.5 Global Aircraft Engine Ceramic Matrix Composite (CMC) Market Price Analysis by Region (2018-2023)

## 5.6 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production and Value, YOY Growth

### 5.6.1 North America Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Estimates and Forecasts (2018-2029)

### 5.6.2 Europe Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Estimates and Forecasts (2018-2029)

### 5.6.3 China Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Estimates and Forecasts (2018-2029)

### 5.6.4 Japan Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Estimates and Forecasts (2018-2029)

## **6 GLOBAL AIRCRAFT ENGINE CERAMIC MATRIX COMPOSITE (CMC) CONSUMPTION BY REGION**

### 6.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Estimates and Forecasts by Region: 2018 VS 2022 VS 2029

### 6.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Region (2018-2029)

#### 6.2.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Region: 2018-2029

#### 6.2.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Forecasted Consumption by Region (2024-2029)

### 6.3 North America

#### 6.3.1 North America Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

#### 6.3.2 North America Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2029)

##### 6.3.3 United States

##### 6.3.4 Canada

### 6.4 Europe

#### 6.4.1 Europe Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth

Rate by Country: 2018 VS 2022 VS 2029

6.4.2 Europe Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2029)

6.4.3 Germany

6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.5.2 Asia Pacific Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2029)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029

6.6.2 Latin America, Middle East & Africa Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2029)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

## **7 SEGMENT BY TYPE**

7.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Type (2018-2029)

7.1.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Type (2018-2029) & (Kg)

7.1.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Type (2018-2029)

7.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Type

(2018-2029)

7.2.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Type (2018-2029) & (US\$ Million)

7.2.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Type (2018-2029)

7.3 Global Aircraft Engine Ceramic Matrix Composite (CMC) Price by Type (2018-2029)

## **8 SEGMENT BY APPLICATION**

8.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Application (2018-2029)

8.1.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Application (2018-2029) & (Kg)

8.1.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Application (2018-2029) & (Kg)

8.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Application (2018-2029)

8.2.1 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Application (2018-2029) & (US\$ Million)

8.2.2 Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Application (2018-2029)

8.3 Global Aircraft Engine Ceramic Matrix Composite (CMC) Price by Application (2018-2029)

## **9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET**

9.1 Aircraft Engine Ceramic Matrix Composite (CMC) Value Chain Analysis

9.1.1 Aircraft Engine Ceramic Matrix Composite (CMC) Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Aircraft Engine Ceramic Matrix Composite (CMC) Production Mode & Process

9.2 Aircraft Engine Ceramic Matrix Composite (CMC) Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Aircraft Engine Ceramic Matrix Composite (CMC) Distributors

9.2.3 Aircraft Engine Ceramic Matrix Composite (CMC) Customers

## **10 GLOBAL AIRCRAFT ENGINE CERAMIC MATRIX COMPOSITE (CMC) ANALYZING MARKET DYNAMICS**

10.1 Aircraft Engine Ceramic Matrix Composite (CMC) Industry Trends

10.2 Aircraft Engine Ceramic Matrix Composite (CMC) Industry Drivers

10.3 Aircraft Engine Ceramic Matrix Composite (CMC) Industry Opportunities and Challenges

10.4 Aircraft Engine Ceramic Matrix Composite (CMC) Industry Restraints

## **11 REPORT CONCLUSION**

## **12 DISCLAIMER**



## List Of Tables

### LIST OF TABLES

Table 1. Secondary Sources

Table 2. Primary Sources

Table 3. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Table 4. Market Value Comparison by Application (2018 VS 2022 VS 2029) & (US\$ Million)

Table 5. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Manufacturers (Kg) & (2018-2023)

Table 6. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Manufacturers

Table 7. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Manufacturers (US\$ Million) & (2018-2023)

Table 8. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Manufacturers (2018-2023)

Table 9. Global Aircraft Engine Ceramic Matrix Composite (CMC) Average Price (US\$/Kg) of Key Manufacturers (2018-2023)

Table 10. Global Aircraft Engine Ceramic Matrix Composite (CMC) Industry Manufacturers Ranking, 2021 VS 2022 VS 2023

Table 11. Global Aircraft Engine Ceramic Matrix Composite (CMC) Manufacturers, Product Type & Application

Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 13. Global Aircraft Engine Ceramic Matrix Composite (CMC) by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2022)

Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)

Table 15. GE Aviation Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 16. GE Aviation Business Overview

Table 17. GE Aviation Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 18. GE Aviation Product Portfolio

Table 19. GE Aviation Recent Developments

Table 20. Safran Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 21. Safran Business Overview

Table 22. Safran Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 23. Safran Product Portfolio

Table 24. Safran Recent Developments

Table 25. Rolls-Royce Group Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 26. Rolls-Royce Group Business Overview

Table 27. Rolls-Royce Group Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 28. Rolls-Royce Group Product Portfolio

Table 29. Rolls-Royce Group Recent Developments

Table 30. CoorsTek Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 31. CoorsTek Business Overview

Table 32. CoorsTek Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 33. CoorsTek Product Portfolio

Table 34. CoorsTek Recent Developments

Table 35. COI Ceramics Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 36. COI Ceramics Business Overview

Table 37. COI Ceramics Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 38. COI Ceramics Product Portfolio

Table 39. COI Ceramics Recent Developments

Table 40. BJS Ceramics GmbH Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 41. BJS Ceramics GmbH Business Overview

Table 42. BJS Ceramics GmbH Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 43. BJS Ceramics GmbH Product Portfolio

Table 44. BJS Ceramics GmbH Recent Developments

Table 45. Composites Horizons Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 46. Composites Horizons Business Overview

Table 47. Composites Horizons Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 48. Composites Horizons Product Portfolio

Table 49. Composites Horizons Recent Developments

Table 50. Ultramet Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 51. Ultramet Business Overview

Table 52. Ultramet Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 53. Ultramet Product Portfolio

Table 54. Ultramet Recent Developments

Table 55. WPX Faser Keramik Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 56. WPX Faser Keramik Business Overview

Table 57. WPX Faser Keramik Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 58. WPX Faser Keramik Product Portfolio

Table 59. WPX Faser Keramik Recent Developments

Table 60. Applied Thin Films Aircraft Engine Ceramic Matrix Composite (CMC) Company Information

Table 61. Applied Thin Films Business Overview

Table 62. Applied Thin Films Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (Kg), Value (US\$ Million), Price (US\$/Kg) and Gross Margin (2018-2023)

Table 63. Applied Thin Films Product Portfolio

Table 64. Applied Thin Films Recent Developments

Table 65. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Comparison by Region: 2018 VS 2022 VS 2029 (Kg)

Table 66. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Region (2018-2023) & (Kg)

Table 67. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Region (2018-2023)

Table 68. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Forecast by Region (2024-2029) & (Kg)

Table 69. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share Forecast by Region (2024-2029)

Table 70. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Table 71. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Region (2018-2023) & (US\$ Million)

Table 72. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value

## Market Share by Region (2018-2023)

Table 73. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Forecast by Region (2024-2029) & (US\$ Million)

Table 74. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share Forecast by Region (2024-2029)

Table 75. Global Aircraft Engine Ceramic Matrix Composite (CMC) Market Average Price (US\$/Kg) by Region (2018-2023)

Table 76. Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Comparison by Region: 2018 VS 2022 VS 2029 (Kg)

Table 77. Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Region (2018-2023) & (Kg)

Table 78. Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Market Share by Region (2018-2023)

Table 79. Global Aircraft Engine Ceramic Matrix Composite (CMC) Forecasted Consumption by Region (2024-2029) & (Kg)

Table 80. Global Aircraft Engine Ceramic Matrix Composite (CMC) Forecasted Consumption Market Share by Region (2024-2029)

Table 81. North America Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)

Table 82. North America Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2023) & (Kg)

Table 83. North America Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2024-2029) & (Kg)

Table 84. Europe Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)

Table 85. Europe Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2023) & (Kg)

Table 86. Europe Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2024-2029) & (Kg)

Table 87. Asia Pacific Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)

Table 88. Asia Pacific Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2023) & (Kg)

Table 89. Asia Pacific Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2024-2029) & (Kg)

Table 90. Latin America, Middle East & Africa Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Growth Rate by Country: 2018 VS 2022 VS 2029 (Kg)

Table 91. Latin America, Middle East & Africa Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2018-2023) & (Kg)

- Table 92. Latin America, Middle East & Africa Aircraft Engine Ceramic Matrix Composite (CMC) Consumption by Country (2024-2029) & (Kg)
- Table 93. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Type (2018-2023) & (Kg)
- Table 94. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Type (2024-2029) & (Kg)
- Table 95. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Type (2018-2023)
- Table 96. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Type (2024-2029)
- Table 97. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Type (2018-2023) & (US\$ Million)
- Table 98. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Type (2024-2029) & (US\$ Million)
- Table 99. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Type (2018-2023)
- Table 100. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Type (2024-2029)
- Table 101. Global Aircraft Engine Ceramic Matrix Composite (CMC) Price by Type (2018-2023) & (US\$/Kg)
- Table 102. Global Aircraft Engine Ceramic Matrix Composite (CMC) Price by Type (2024-2029) & (US\$/Kg)
- Table 103. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Application (2018-2023) & (Kg)
- Table 104. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production by Application (2024-2029) & (Kg)
- Table 105. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Application (2018-2023)
- Table 106. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Application (2024-2029)
- Table 107. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Application (2018-2023) & (US\$ Million)
- Table 108. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value by Application (2024-2029) & (US\$ Million)
- Table 109. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Application (2018-2023)
- Table 110. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Application (2024-2029)
- Table 111. Global Aircraft Engine Ceramic Matrix Composite (CMC) Price by

Application (2018-2023) & (US\$/Kg)

Table 112. Global Aircraft Engine Ceramic Matrix Composite (CMC) Price by Application (2024-2029) & (US\$/Kg)

Table 113. Key Raw Materials

Table 114. Raw Materials Key Suppliers

Table 115. Aircraft Engine Ceramic Matrix Composite (CMC) Distributors List

Table 116. Aircraft Engine Ceramic Matrix Composite (CMC) Customers List

Table 117. Aircraft Engine Ceramic Matrix Composite (CMC) Industry Trends

Table 118. Aircraft Engine Ceramic Matrix Composite (CMC) Industry Drivers

Table 119. Aircraft Engine Ceramic Matrix Composite (CMC) Industry Restraints

Table 120. Authors List of This Report

## List Of Figures

### LIST OF FIGURES

Figure 1. Research Methodology

Figure 2. Research Process

Figure 3. Key Executives Interviewed

Figure 4. Aircraft Engine Ceramic Matrix Composite (CMC) Product Picture

Figure 5. Market Value Comparison by Type (2018 VS 2022 VS 2029) & (US\$ Million)

Figure 6. Oxide Product Picture

Figure 7. Silicon Carbide Product Picture

Figure 8. Carbon Product Picture

Figure 9. Others Product Picture

Figure 10. Civil Aircraft Product Picture

Figure 11. Military Aircraft Product Picture

Figure . Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value (US\$ Million), 2018 VS 2022 VS 2029

Figure 1. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value (2018-2029) & (US\$ Million)

Figure 2. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Capacity (2018-2029) & (Kg)

Figure 3. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production (2018-2029) & (Kg)

Figure 4. Global Aircraft Engine Ceramic Matrix Composite (CMC) Average Price (US\$/Kg) & (2018-2029)

Figure 5. Global Aircraft Engine Ceramic Matrix Composite (CMC) Key Manufacturers, Manufacturing Sites & Headquarters

Figure 6. Global Aircraft Engine Ceramic Matrix Composite (CMC) Manufacturers, Date of Enter into This Industry

Figure 7. Global Top 5 and 10 Aircraft Engine Ceramic Matrix Composite (CMC) Players Market Share by Production Valu in 2022

Figure 8. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2018 VS 2022

Figure 9. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Comparison by Region: 2018 VS 2022 VS 2029 (Kg)

Figure 10. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Region: 2018 VS 2022 VS 2029

Figure 11. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Comparison by Region: 2018 VS 2022 VS 2029 (US\$ Million)

Figure 12. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value

Market Share by Region: 2018 VS 2022 VS 2029

Figure 13. North America Aircraft Engine Ceramic Matrix Composite (CMC) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 14. Europe Aircraft Engine Ceramic Matrix Composite (CMC) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 15. China Aircraft Engine Ceramic Matrix Composite (CMC) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 16. Japan Aircraft Engine Ceramic Matrix Composite (CMC) Production Value (US\$ Million) Growth Rate (2018-2029)

Figure 17. Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Comparison by Region: 2018 VS 2022 VS 2029 (Kg)

Figure 18. Global Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Market Share by Region: 2018 VS 2022 VS 2029

Figure 19. North America Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 20. North America Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Market Share by Country (2018-2029)

Figure 21. United States Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 22. Canada Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 23. Europe Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 24. Europe Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Market Share by Country (2018-2029)

Figure 25. Germany Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 26. France Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 27. U.K. Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 28. Italy Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 29. Netherlands Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 30. Asia Pacific Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 31. Asia Pacific Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Market Share by Country (2018-2029)



Figure 32. China Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 33. Japan Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 34. South Korea Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 35. China Taiwan Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 36. Southeast Asia Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 37. India Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 38. Australia Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 39. Latin America, Middle East & Africa Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 40. Latin America, Middle East & Africa Aircraft Engine Ceramic Matrix Composite (CMC) Consumption Market Share by Country (2018-2029)

Figure 41. Mexico Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 42. Brazil Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 43. Turkey Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 44. GCC Countries Aircraft Engine Ceramic Matrix Composite (CMC) Consumption and Growth Rate (2018-2029) & (Kg)

Figure 45. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Type (2018-2029)

Figure 46. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Type (2018-2029)

Figure 47. Global Aircraft Engine Ceramic Matrix Composite (CMC) Price (US\$/Kg) by Type (2018-2029)

Figure 48. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Market Share by Application (2018-2029)

Figure 49. Global Aircraft Engine Ceramic Matrix Composite (CMC) Production Value Market Share by Application (2018-2029)

Figure 50. Global Aircraft Engine Ceramic Matrix Composite (CMC) Price (US\$/Kg) by Application (2018-2029)

Figure 51. Aircraft Engine Ceramic Matrix Composite (CMC) Value Chain

Figure 52. Aircraft Engine Ceramic Matrix Composite (CMC) Production Mode & Process

Figure 53. Direct Comparison with Distribution Share

Figure 54. Distributors Profiles

Figure 55. Aircraft Engine Ceramic Matrix Composite (CMC) Industry Opportunities and Challenges

## Highlights

The global Aircraft Engine Ceramic Matrix Composite (CMC) market is projected to reach US\$ million by 2028 from an estimated US\$ million in 2022, at a CAGR of % during 2024 and 2029.

North American market for Aircraft Engine Ceramic Matrix Composite (CMC) is estimated to increase from \$ million in 2022 to reach \$ million by 2028, at a CAGR of % during the forecast period of 2023 through 2028.

Asia-Pacific market for Aircraft Engine Ceramic Matrix Composite (CMC) is estimated to increase from \$ million in 2022 to reach \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

The major global companies of Aircraft Engine Ceramic Matrix Composite (CMC) include GE Aviation, Safran, Rolls-Royce Group, CoorsTek, COI Ceramics, BJS Ceramics GmbH, Composites Horizons, Ultramet and WPX Faser Keramik, etc. In 2022, the world's top three vendors accounted for approximately % of the revenue.

The global market for Aircraft Engine Ceramic Matrix Composite (CMC) in Civil Aircraft is estimated to increase from \$ million in 2023 to \$ million by 2029, at a CAGR of % during the forecast period of 2023 through 2029.

Considering the economic change due to COVID-19 and Russia-Ukraine War Influence, Oxide, which accounted for % of the global market of Aircraft Engine Ceramic Matrix Composite (CMC) in 2022, is expected to reach million US\$ by 2029, growing at a revised CAGR of % from 2023 to 2029.

## Report Scope

This report aims to provide a comprehensive presentation of the global market for Aircraft Engine Ceramic Matrix Composite (CMC), with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Aircraft Engine Ceramic Matrix Composite (CMC).

The Aircraft Engine Ceramic Matrix Composite (CMC) market size, estimations, and forecasts are provided in terms of output/shipments (Kg) and revenue (\$ millions), considering 2022 as the base year, with history and forecast data for the period from 2018 to 2029. This report segments the global Aircraft Engine Ceramic Matrix

Composite (CMC) market comprehensively. Regional market sizes, concerning products by types, by application, and by players, are also provided. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

The report will help the Aircraft Engine Ceramic Matrix Composite (CMC) manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, production, and average price for the overall market and the sub-segments across the different segments, by company, product type, application, and regions.

#### Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2017-2022. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

GE Aviation

Safran

Rolls-Royce Group

CoorsTek

COI Ceramics

BJS Ceramics GmbH

Composites Horizons

Ultramet

WPX Faser Keramik

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