

Growth Opportunities for Ceramic Matrix Composites in the Global Aerospace Industry

<https://marketpublishers.com/r/GE7980EFB15EN.html>

Date: November 2017

Pages: 108

Price: US\$ 4,850.00 (Single User License)

ID: GE7980EFB15EN

Abstracts

The future for CMC in the global aerospace industry looks positive with opportunities in the commercial aircraft, military aircraft, and space segments. CMC consumption in the global aerospace industry is expected to grow with a CAGR of 9% from 2017 to 2022. The major growth drivers for this market are increasing demand for lightweight materials in the aerospace industry and capability of CMC components for performing better at high temperatures.

Emerging trends, which have a direct impact on the dynamics of the ceramic matrix composites in the global aerospace industry, include increasing application of CMC materials in high temperature areas.

A total of 41 figures/charts and 41 tables are provided in this 108 -page report to help in your business decisions. Sample figures with some insights are shown below. To learn the scope of, benefits, companies researched and other details of this ceramic matrix composites in the global aerospace industry report, download the report brochure.

The study includes the ceramic matrix composites in the global aerospace industry size and forecast for CMC in the global aerospace industry through 2022 by material type, application, end use industry, and region, as follows:

Ceramic matrix composites in the global aerospace industry by Material Type (Volume (metric ton) and Value (\$ million) from 2011 to 2022):

Oxide/Oxide

Sic/Sic

C/C and Others

Ceramic matrix composites in the global aerospace industry by End Use Market (Value (\$ million) from 2011 to 2022):

Commercial Aircraft

Military Aircraft

Space

Ceramic matrix composites in the global aerospace industry by Application (Value (\$ million) from 2011 to 2022):

Engine

Landing Gear

Airframe

Ceramic matrix composites in the global aerospace industry by Region (Value (\$M) shipment analysis from 2011 to 2022):

North America

Europe

Asia Pacific

Rest of the World

Ceramic matrix composites companies profiled in this market include 3M, General Electric, CoorsTek Inc., Albany International, and SGL Carbon SE are among the major manufacturers of CMC material for aerospace industry.

In this market, C/C, SiC/SiC, and Oxide/Oxide are the major types of CMC material. C/C will remain the largest market over the forecast period because it is commonly used in all commercial aircraft disc brakes.

North America is expected to remain the largest region during the forecast period due to high procurement of CMC material by various CMC component manufacturers in the USA.

Some of the features of “Growth Opportunities for Ceramic Matrix Composites in the Global Aerospace Industry 2017-2022: Trends, Forecast, and Opportunity Analysis” include:

Market size estimates: Global ceramic matrix composites in the global aerospace industry size estimation in terms of value (\$M) and volume (Metric Ton) shipment. Trend and forecast analysis: Market trend (2011-2016) and forecast (2017-2022) by segments and region. Segmentation analysis: Ceramic matrix composites in the global aerospace industry size by various applications such as end use industry, and resin chemistry in terms of value and volume shipment. Regional analysis: Ceramic matrix composites in the global aerospace industry breakdown by North America, Europe, Asia Pacific, and the Rest of the World. Growth opportunities: Analysis on growth opportunities in different applications and regions of ceramic matrix composites in the global aerospace industry. Strategic analysis: This includes M&A, new product development, and competitive landscape of ceramic matrix composites in the global aerospace industry. Analysis of competitive intensity of the industry based on Porter's Five Forces model.

This report answers the following key questions:

Q.1 What are some of the most promising, high-growth opportunities for CMC in the global aerospace industry by material type (Oxide/Oxide, SiC/SiC, C/C, and others), by end use market (commercial aircraft, military aircraft, and space), by application (engine, landing gear, and airframe), and by region (North America, Europe, and the Rest of the World (including Asia Pacific)?

Q.2 Which product segments will grow at a faster pace and why?

Q.3 Which region will grow at a faster pace and why?

Q.4 What are the key factors affecting market dynamics? What are the drivers, challenges, and business risks in this ceramic matrix composites in the global aerospace market?

Q.5 What are the business risks and competitive threats in this ceramic matrix

composites in the global aerospace market?

Q.6 What are the emerging trends in this ceramic matrix composites in the global aerospace market and the reasons behind them?

Q.7 What are some of the changing demands of customers in the ceramic matrix composites in the global aerospace market?

Q.8 What are the new developments in the market and which companies are leading these developments?

Q.9 Who are the major players in this ceramic matrix composites in the global aerospace market? What strategic initiatives are being taken by key companies for business growth?

Q.10 What M&A activity has occurred in ceramic matrix composites in the global aerospace industry in the last 5 years?

Contents

1. EXECUTIVE SUMMARY

2. CERAMIC MATRIX COMPOSITES IN THE GLOBAL AEROSPACE INDUSTRY: MARKET DYNAMICS

2.1: Introduction, Background, and Classifications

2.2: Supply Chain

2.3: Industry Drivers and Challenges

3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2011 TO 2022

3.1: Macroeconomic Trends and Forecast

3.2: Trends and Forecast for CMC in the Global Aerospace Industry

3.3: CMC in the Global Aerospace Industry by End Use Markets

3.3.1: Commercial Aircraft

3.3.2: Military Aircraft

3.3.3: Space

3.4: CMC in the Global Aerospace Industry by Material Type

3.4.1: Oxide/Oxide

3.4.2: SiC/SiC

3.4.3: C/C and Others

3.5: CMC in the Global Aerospace Industry by Application

3.5.1: Engine

3.5.2: Landing Gear

3.5.3: Airframe

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION

4.1: CMC in the Global Aerospace Industry by Region

4.2: CMC in the North American Aerospace Industry

4.3: CMC in the European Aerospace Industry

4.4: CMC in the ROW (including APAC) Aerospace Industry

5. COMPETITOR ANALYSIS

5.1: Product Portfolio Analysis

5.2: Ranking of Major Players

- 5.3: Operational Integration
- 5.4: Geographical Reach
- 5.5: Porter's Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

6.1: Growth Opportunity Analysis

- 6.1.1: Growth Opportunities for CMC in the Global Aerospace Industry by Material Type
- 6.1.2: Growth Opportunities for CMC in the Global Aerospace Industry by End Use
- 6.1.3: Growth Opportunities for CMC in the Global Aerospace Industry by Application
- 6.1.4: Growth Opportunities for CMC in the Global Aerospace Industry by Region

6.2: Emerging Trends for CMC in the Global Aerospace Industry

6.3: Strategic Analysis

- 6.3.1: New Product Development
- 6.3.2: Capacity Expansion for CMC in the Global Aerospace Industry
- 6.3.3: Mergers, Acquisitions, and Joint Ventures for CMC in the Global Aerospace Industry

7. COMPANY PROFILES OF LEADING PLAYERS

- 7.1: 3M Company
- 7.2: General Electric
- 7.3: CoorsTek Inc.
- 7.4: Albany International
- 7.5: COI Ceramics Inc.
- 7.6: SGL Carbon SE
- 7.7: MT Aerospace
- 7.8: Lancer System
- 7.9: Ultramet Inc.
- 7.10: Starfire Systems Inc.

List Of Figures

LIST OF FIGURES

CHAPTER 2. CERAMIC MATRIX COMPOSITES IN THE GLOBAL AEROSPACE INDUSTRY: MARKET DYNAMICS

Figure 2.1: Processing of Ceramic Matrix Composites

Figure 2.2: Classification of Ceramic Matrix Composites Industry by Material Type, Application, and End Use Market

Figure 2.3: Supply Chain of CMC in the Global Aerospace Industry

Figure 2.4: Major Drivers and Challenges for CMC Materials in the Global Aerospace Market

CHAPTER 3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2011 TO 2022

Figure 3.1: Trends of the Global GDP Growth Rate

Figure 3.2: Global Passenger Traffic Growth (Billion RPK) Trends (2011-2016)

Figure 3.3: Commercial Aircraft Delivery Trends (2011- 2016)

Figure 3.4: Forecast for the Global GDP Growth Rate

Figure 3.5: Commercial Aircraft Delivery Forecast (2017-2022)

Figure 3.6: Trends and Forecast for CMC in the Global Aerospace Industry (2011-2022)

Figure 3.7: Trends of CMC in the Global Aerospace Industry (\$M) by End Use Market (2011- 2016)

Figure 3.8: Forecast for CMC in the Global Aerospace Industry (\$M) by End Use Market (2017- 2022)

Figure 3.9: Trends and Forecast for Commercial Aircraft for CMC in the Global Aerospace Industry (\$M) (2011-2022)

Figure 3.10: Trends and Forecast for Military Aircraft for CMC in the Global Aerospace Industry (2011-2022)

Figure 3.11: Trends and Forecast for Space for CMC in the Global Aerospace Industry (2011-2022)

Figure 3.12: Trends of CMC in the Global Aerospace Industry (\$M) by Material Type (2011- 2016)

Figure 3.13: Forecast for CMC in the Global Aerospace Industry (\$M) by Material Type (2017-2022)

Figure 3.14: Trends of CMC in the Global Aerospace Industry (Metric Ton) by Material Type (2011-2016)

Figure 3.15: Forecast for CMC in the Global Aerospace Industry (Metric Ton) by

Material Type (2017-2022)

Figure 3.16: Trends and Forecast for Oxide/Oxide Materials of CMC in the Global Aerospace Market (2011-2022)

Figure 3.17: Trends and Forecast for SiC/SiC Materials of CMC in the Global Aerospace Industry (2011-2022)

Figure 3.18: Trends and Forecast for C/C and Other CMC Materials in the Global Aerospace Industry (2011-2022)

Figure 3.19: Trends of CMC in the Global Aerospace Industry (\$M) by Application (2011- 2016)

Figure 3.20: Forecast for CMC in the Global Aerospace Market (\$M) by Application (2017- 2022)

Figure 3.21: Trends and Forecast for Engine for CMC in the Global Aerospace Industry (2011-2022)

Figure 3.22: Trends and Forecast for Landing Gear for CMC in the Global Aerospace Industry (2011-2022)

Figure 3.23: Trends and Forecast for Airframe for CMC in the Global Aerospace Industry (2011-2022)

CHAPTER 4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION

Figure 4.1: Trends of CMC in the Global Aerospace Industry (\$M) by Region (2011-2016)

Figure 4.2: Forecast for CMC in the Global Aerospace Industry (\$M) by Region (2017-2022)

Figure 4.3: Trends and Forecast for CMC in the North American Aerospace Industry (\$M) (2011-2022)

Figure 4.4: Trends and Forecast for CMC in the European Aerospace Industry (\$M) (2011-2022)

Figure 4.5: Trends and Forecast for CMC in the ROW (including APAC) Aerospace Industry (\$M) (2011-2022)

CHAPTER 5. COMPETITOR ANALYSIS

Figure 5.1: Locations of Major Aerospace CMC Suppliers

Figure 5.2: Porter's Five Forces Analysis for CMC in the Global Aerospace Industry

CHAPTER 6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

Figure 6.1: Growth Opportunities for CMC in the Global Aerospace Industry by Material

Type

Figure 6.2: Growth Opportunities for CMC in the Global Aerospace Industry by End Use Market

Figure 6.3: Growth Opportunities for CMC in the Global Aerospace Industry by Application

Figure 6.4: Growth Opportunities for CMC in the Global Aerospace Industry by Region

Figure 6.5: Emerging Trends for CMC in the Global Aerospace Industry

Figure 6.6: Strategic Initiatives by Major Competitors for CMC in the Global Aerospace Industry (2011-2016)

Figure 6.7: Major Capacity Expansion for CMC in the Global Aerospace Industry (2011-2016)

List Of Tables

LIST OF TABLES

CHAPTER 1. EXECUTIVE SUMMARY

Table 1.1: CMC in the Global Aerospace Industry: Parameters and Attributes

CHAPTER 2. CERAMIC MATRIX COMPOSITES IN THE GLOBAL AEROSPACE INDUSTRY: MARKET DYNAMICS

Table 2.1: Ceramic Matrix Composites Properties

CHAPTER 3. MARKET TRENDS AND FORECAST ANALYSIS FROM 2011 TO 2022

Table 3.1: Market Trends of CMC in the Global Aerospace Industry (2011-2016)

Table 3.2: Market Forecast for CMC in the Global Aerospace Industry (2017-2022)

Table 3.3: Market Size and CAGR of Various End Use Markets of CMC in the Global Aerospace Market by Value (2011-2016)

Table 3.4: Market Size and CAGR of Various End Use Markets of CMC in the Global Aerospace Industry by Value (2017-2022)

Table 3.5: Market Trends of Commercial Aircraft for CMC in the Global Aerospace Industry (2011-2016)

Table 3.6: Market Forecast for Commercial Aircraft for CMC in the Global Aerospace Industry (2017-2022)

Table 3.7: Market Trends of Military Aircraft for CMC in the Global Aerospace Industry (2011-2016)

Table 3.8: Market Forecast for Military Aircraft for CMC in the Global Aerospace Industry (2017-2022)

Table 3.9: Market Trends of Space for CMC in the Global Aerospace Industry (2011-2016)

Table 3.10: Market Forecast for Space for CMC in the Global Aerospace Industry (2017-2022)

Table 3.11: Market Size and CAGR of Various Material Types of CMC in the Global Aerospace Industry by Value (2011-2016)

Table 3.12: Market Size and CAGR of Various Material Types of CMC in the Global Aerospace Industry by Value (2017-2022)

Table 3.13: Market Size and CAGR of Various Material Types of CMC in the Global Aerospace Industry by Volume (2011-2016)

Table 3.14: Market Size and CAGR of Various Material Types of CMC in the Global Aerospace Industry by Volume (2017-2022)

Table 3.15: Market Trends of Oxide/Oxide Materials of CMC in the Global Aerospace Industry (2011-2016)

Table 3.16: Market Forecast for Oxide/Oxide Materials of CMC in the Global Aerospace Industry (2017-2022)

Table 3.17: Market Trends of SiC/SiC Materials of CMC in the Global Aerospace Industry (2011-2016)

Table 3.18: Market Forecast for SiC/SiC Materials of CMC in the Global Aerospace Industry (2017-2022)

Table 3.19: Market Trends of C/C and Other CMC Materials in the Global Aerospace Industry (2011-2016)

Table 3.20: Market Forecast for C/C and Other CMC Materials in the Global Aerospace Industry (2017-2022)

Table 3.21: Market Size and CAGR of Various Applications of CMC in the Global Aerospace Industry by Value (2011-2016)

Table 3.22: Market Size and CAGR of Various Applications of CMC in the Global Aerospace Industry by Value (2017-2022)

Table 3.23: Market Trends of Engine for CMC in the Global Aerospace Industry (2011-2016)

Table 3.24: Market Forecast for Engine for CMC in the Global Aerospace Industry (2017-2022)

Table 3.25: Market Trends of Landing Gear for CMC in the Global Aerospace Industry (2011-2016)

Table 3.26: Market Forecast for Landing Gear for CMC in the Global Aerospace Industry (2017-2022)

Table 3.27: Market Trends of Airframe for CMC in the Global Aerospace Industry (2011-2016)

Table 3.28: Market Forecast for Airframe for CMC in the Global Aerospace Industry (2017-2022)

CHAPTER 4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION

Table 4.1: Market Size and CAGR of Various Regions of CMC in the Global Aerospace Industry by Value (2011-2016)

Table 4.2: Market Size and CAGR of Various Regions of CMC in the Global Aerospace Industry by Value (2017-2022)

Table 4.3: Market Trends of CMC in the North American Aerospace Industry (2011-2016)

Table 4.4: Market Forecast for CMC in the North American Aerospace Industry (2017-2022)

Table 4.5: Market Trends of CMC in the European Aerospace Industry (2011-2016)

Table 4.6: Market Forecast for CMC in the European Aerospace Industry (2017-2022)

Table 4.7: Market Trends of CMC in the ROW (including APAC) Aerospace Industry (2011-2016)

Table 4.8: Market Forecast for CMC in the ROW (including APAC) Aerospace Industry (2017-2022)

CHAPTER 5. COMPETITOR ANALYSIS

Table 5.1: Product Mapping of CMC Manufacturers Based on CMC Type

Table 5.2: Rankings of Suppliers Based on CMC Revenue in the Global Aerospace Industry

Table 5.3: Operational Integration of the Aerospace CMC Manufacturers

I would like to order

Product name: Growth Opportunities for Ceramic Matrix Composites in the Global Aerospace Industry

Product link: <https://marketpublishers.com/r/GE7980EFB15EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GE7980EFB15EN.html>