

Global C/SiC Ceramic Matrix Composites Market Growth 2026-2032

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Abstracts

The global C/SiC Ceramic Matrix Composites market size is predicted to grow from US\$ 5870 million in 2025 to US\$ 19708 million in 2032; it is expected to grow at a CAGR of 19.0% from 2026 to 2032.

Carbon fiber reinforced silicon carbide composites (C/C-SiC) are high-performance composites with carbon fiber as reinforcement and silicon carbide as matrix, featuring high strength, high modulus, excellent heat resistance and thermal shock resistance. These materials can be fabricated by hot isostatic pressing, chemical vapor infiltration (CVI) and reaction bonding (RBSiC). Among them, CVI-prepared products are most widely used in aerospace and cutting-edge equipment due to their dense microstructure, outstanding high-temperature resistance and corrosion resistance. C/C-SiC composites prepared by precursor infiltration pyrolysis through 11 cycles of 'impregnation-curing-pyrolysis' can achieve a density of 2.09 g/cm³, porosity of 7.6%, flexural strength of 468 MPa, tensile strength of 242 MPa, and fracture toughness of 19.6 MPa·m^{1/2}. Products prepared by CVI combined with reactive melt infiltration (RMI) and post-heat treatment exhibit a flexural strength of up to 296.52 MPa.

In the supply and application chain, key upstream inputs include carbon fiber, silicon carbide raw materials and processing additives; the midstream consists of specialized manufacturing and processing, where precise control of process parameters directly determines material performance and quality consistency. Downstream applications mainly cover high-end equipment sectors such as aerospace, energy, nuclear industry and high-speed trains. The material is widely used in components including aero-engine combustors, missile fairings and spacecraft brake discs to withstand extreme high temperatures and friction-wear conditions, serving as a key material especially for aerospace and high-end braking systems.

The C/C-SiC composite market features high technical barriers and high concentration. Overseas enterprises including Brembo SGL, GE Aviation, Safran and Rolls-Royce possess mature manufacturing technologies and stable customer channels. Chinese companies such as Xi'an Xinyao Ceramic Composites, Xi'an Chaoma Technology, Beijing MOXA Technology and Boyun New Material are advancing domestic substitution through independent R&D, undertaking the development of high-end thermal structural components and thermal protection systems.

In 2021, the Ministry of Industry and Information Technology included silicon carbide composites and carbon-based composites in the 14th Five-Year Plan for industrial technological innovation. The National Key R&D Program of China also continues to support research and demonstration applications of such materials. Overall, C/C-SiC composites play an irreplaceable role in high-performance structural applications, with CVI-fabricated products delivering the best performance. Driven by demand from aerospace and high-end braking systems, the industry is dominated by technology-leading enterprises, while Chinese manufacturers are gradually increasing their market share through policy support and technological breakthroughs.

LP Information, Inc. (LPI) ' newest research report, the 'C/SiC Ceramic Matrix Composites Industry Forecast' looks at past sales and reviews total world C/SiC Ceramic Matrix Composites sales in 2025, providing a comprehensive analysis by region and market sector of projected C/SiC Ceramic Matrix Composites sales for 2026 through 2032. With C/SiC Ceramic Matrix Composites sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world C/SiC Ceramic Matrix Composites industry.

This Insight Report provides a comprehensive analysis of the global C/SiC Ceramic Matrix Composites 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 C/SiC Ceramic Matrix Composites portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global C/SiC Ceramic Matrix Composites market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for C/SiC Ceramic Matrix Composites 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 C/SiC Ceramic Matrix Composites.

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

Segmentation by Type:

Continuous Carbon Fiber Reinforced

Discontinuous Carbon Fiber Reinforced

Segmentation by structure:

Unidirectional

Woven Fabric

Multidirectional

Segmentation by process:

Liquid Phase Infiltration

Chemical Vapor Deposition

Hot Pressing Molding

Thermochemical Method

Segmentation by Application:

Aerospace & Aviation Field

Automotive Field

Nuclear Energy Field

Industrial High-Temperature Field

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.

SGL Carbon

Safran

GE Aviation

Schunk Carbon Technology

Mitsubishi Chemical

Boyun New Material

Sinoma Technology

Torch Electronics

Jiangsu Tianniao

Hunan Dezhi Advanced Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global C/SiC Ceramic Matrix Composites market?

What factors are driving C/SiC Ceramic Matrix Composites market growth, globally and by region?

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

How do C/SiC Ceramic Matrix Composites market opportunities vary by end market size?

How does C/SiC Ceramic Matrix Composites break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global C/SiC Ceramic Matrix Composites Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for C/SiC Ceramic Matrix Composites by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for C/SiC Ceramic Matrix Composites by Country/Region, 2021, 2025 & 2032
- 2.2 C/SiC Ceramic Matrix Composites Segment by Type
 - 2.2.1 Continuous Carbon Fiber Reinforced
 - 2.2.2 Discontinuous Carbon Fiber Reinforced
 - 2.2.3 C/SiC Ceramic Matrix Composites Sales by Type
 - 2.2.3.1 Global C/SiC Ceramic Matrix Composites Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global C/SiC Ceramic Matrix Composites Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global C/SiC Ceramic Matrix Composites Sale Price by Type (2021-2026)
- 2.3 C/SiC Ceramic Matrix Composites Segment by structure
 - 2.3.1 Unidirectional
 - 2.3.2 Woven Fabric
 - 2.3.3 Multidirectional
 - 2.3.4 C/SiC Ceramic Matrix Composites Sales by structure
 - 2.3.4.1 Global C/SiC Ceramic Matrix Composites Sales Market Share by structure (2021-2026)
 - 2.3.4.2 Global C/SiC Ceramic Matrix Composites Revenue and Market Share by structure (2021-2026)

- 2.3.4.3 Global C/SiC Ceramic Matrix Composites Sale Price by structure (2021-2026)
- 2.4 C/SiC Ceramic Matrix Composites Segment by process
 - 2.4.1 Liquid Phase Infiltration
 - 2.4.2 Chemical Vapor Deposition
 - 2.4.3 Hot Pressing Molding
 - 2.4.4 Thermochemical Method
 - 2.4.5 C/SiC Ceramic Matrix Composites Sales by process
 - 2.4.5.1 Global C/SiC Ceramic Matrix Composites Sales Market Share by process (2021-2026)
 - 2.4.5.2 Global C/SiC Ceramic Matrix Composites Revenue and Market Share by process (2021-2026)
 - 2.4.5.3 Global C/SiC Ceramic Matrix Composites Sale Price by process (2021-2026)
- 2.5 C/SiC Ceramic Matrix Composites Segment by Application
 - 2.5.1 Aerospace & Aviation Field
 - 2.5.2 Automotive Field
 - 2.5.3 Nuclear Energy Field
 - 2.5.4 Industrial High-Temperature Field
 - 2.5.5 Others
 - 2.5.6 C/SiC Ceramic Matrix Composites Sales by Application
 - 2.5.6.1 Global C/SiC Ceramic Matrix Composites Sale Market Share by Application (2021-2026)
 - 2.5.6.2 Global C/SiC Ceramic Matrix Composites Revenue and Market Share by Application (2021-2026)
 - 2.5.6.3 Global C/SiC Ceramic Matrix Composites Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global C/SiC Ceramic Matrix Composites Breakdown Data by Company
 - 3.1.1 Global C/SiC Ceramic Matrix Composites Annual Sales by Company (2021-2026)
 - 3.1.2 Global C/SiC Ceramic Matrix Composites Sales Market Share by Company (2021-2026)
- 3.2 Global C/SiC Ceramic Matrix Composites Annual Revenue by Company (2021-2026)
 - 3.2.1 Global C/SiC Ceramic Matrix Composites Revenue by Company (2021-2026)
 - 3.2.2 Global C/SiC Ceramic Matrix Composites Revenue Market Share by Company (2021-2026)
- 3.3 Global C/SiC Ceramic Matrix Composites Sale Price by Company

3.4 Key Manufacturers C/SiC Ceramic Matrix Composites Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers C/SiC Ceramic Matrix Composites Product Location Distribution

3.4.2 Players C/SiC Ceramic Matrix Composites Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR C/SIC CERAMIC MATRIX COMPOSITES BY GEOGRAPHIC REGION

4.1 World Historic C/SiC Ceramic Matrix Composites Market Size by Geographic Region (2021-2026)

4.1.1 Global C/SiC Ceramic Matrix Composites Annual Sales by Geographic Region (2021-2026)

4.1.2 Global C/SiC Ceramic Matrix Composites Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic C/SiC Ceramic Matrix Composites Market Size by Country/Region (2021-2026)

4.2.1 Global C/SiC Ceramic Matrix Composites Annual Sales by Country/Region (2021-2026)

4.2.2 Global C/SiC Ceramic Matrix Composites Annual Revenue by Country/Region (2021-2026)

4.3 Americas C/SiC Ceramic Matrix Composites Sales Growth

4.4 APAC C/SiC Ceramic Matrix Composites Sales Growth

4.5 Europe C/SiC Ceramic Matrix Composites Sales Growth

4.6 Middle East & Africa C/SiC Ceramic Matrix Composites Sales Growth

5 AMERICAS

5.1 Americas C/SiC Ceramic Matrix Composites Sales by Country

5.1.1 Americas C/SiC Ceramic Matrix Composites Sales by Country (2021-2026)

5.1.2 Americas C/SiC Ceramic Matrix Composites Revenue by Country (2021-2026)

5.2 Americas C/SiC Ceramic Matrix Composites Sales by Type (2021-2026)

5.3 Americas C/SiC Ceramic Matrix Composites Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC C/SiC Ceramic Matrix Composites Sales by Region

6.1.1 APAC C/SiC Ceramic Matrix Composites Sales by Region (2021-2026)

6.1.2 APAC C/SiC Ceramic Matrix Composites Revenue by Region (2021-2026)

6.2 APAC C/SiC Ceramic Matrix Composites Sales by Type (2021-2026)

6.3 APAC C/SiC Ceramic Matrix Composites Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe C/SiC Ceramic Matrix Composites by Country

7.1.1 Europe C/SiC Ceramic Matrix Composites Sales by Country (2021-2026)

7.1.2 Europe C/SiC Ceramic Matrix Composites Revenue by Country (2021-2026)

7.2 Europe C/SiC Ceramic Matrix Composites Sales by Type (2021-2026)

7.3 Europe C/SiC Ceramic Matrix Composites Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa C/SiC Ceramic Matrix Composites by Country

8.1.1 Middle East & Africa C/SiC Ceramic Matrix Composites Sales by Country (2021-2026)

8.1.2 Middle East & Africa C/SiC Ceramic Matrix Composites Revenue by Country (2021-2026)

8.2 Middle East & Africa C/SiC Ceramic Matrix Composites Sales by Type (2021-2026)

8.3 Middle East & Africa C/SiC Ceramic Matrix Composites Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of C/SiC Ceramic Matrix Composites

10.3 Manufacturing Process Analysis of C/SiC Ceramic Matrix Composites

10.4 Industry Chain Structure of C/SiC Ceramic Matrix Composites

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 C/SiC Ceramic Matrix Composites Distributors

11.3 C/SiC Ceramic Matrix Composites Customer

12 WORLD FORECAST REVIEW FOR C/SIC CERAMIC MATRIX COMPOSITES BY GEOGRAPHIC REGION

12.1 Global C/SiC Ceramic Matrix Composites Market Size Forecast by Region

12.1.1 Global C/SiC Ceramic Matrix Composites Forecast by Region (2027-2032)

12.1.2 Global C/SiC Ceramic Matrix Composites Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global C/SiC Ceramic Matrix Composites Forecast by Type (2027-2032)

12.7 Global C/SiC Ceramic Matrix Composites Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SGL Carbon

13.1.1 SGL Carbon Company Information

13.1.2 SGL Carbon C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

13.1.3 SGL Carbon C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 SGL Carbon Main Business Overview

13.1.5 SGL Carbon Latest Developments

13.2 Safran

13.2.1 Safran Company Information

13.2.2 Safran C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

13.2.3 Safran C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Safran Main Business Overview

13.2.5 Safran Latest Developments

13.3 GE Aviation

13.3.1 GE Aviation Company Information

13.3.2 GE Aviation C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

13.3.3 GE Aviation C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 GE Aviation Main Business Overview

13.3.5 GE Aviation Latest Developments

13.4 Schunk Carbon Technology

13.4.1 Schunk Carbon Technology Company Information

13.4.2 Schunk Carbon Technology C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

13.4.3 Schunk Carbon Technology C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Schunk Carbon Technology Main Business Overview

13.4.5 Schunk Carbon Technology Latest Developments

13.5 Mitsubishi Chemical

- 13.5.1 Mitsubishi Chemical Company Information
- 13.5.2 Mitsubishi Chemical C/SiC Ceramic Matrix Composites Product Portfolios and Specifications
- 13.5.3 Mitsubishi Chemical C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Mitsubishi Chemical Main Business Overview
- 13.5.5 Mitsubishi Chemical Latest Developments
- 13.6 Boyun New Material
 - 13.6.1 Boyun New Material Company Information
 - 13.6.2 Boyun New Material C/SiC Ceramic Matrix Composites Product Portfolios and Specifications
 - 13.6.3 Boyun New Material C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Boyun New Material Main Business Overview
 - 13.6.5 Boyun New Material Latest Developments
- 13.7 Sinoma Technology
 - 13.7.1 Sinoma Technology Company Information
 - 13.7.2 Sinoma Technology C/SiC Ceramic Matrix Composites Product Portfolios and Specifications
 - 13.7.3 Sinoma Technology C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Sinoma Technology Main Business Overview
 - 13.7.5 Sinoma Technology Latest Developments
- 13.8 Torch Electronics
 - 13.8.1 Torch Electronics Company Information
 - 13.8.2 Torch Electronics C/SiC Ceramic Matrix Composites Product Portfolios and Specifications
 - 13.8.3 Torch Electronics C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Torch Electronics Main Business Overview
 - 13.8.5 Torch Electronics Latest Developments
- 13.9 Jiangsu Tianniao
 - 13.9.1 Jiangsu Tianniao Company Information
 - 13.9.2 Jiangsu Tianniao C/SiC Ceramic Matrix Composites Product Portfolios and Specifications
 - 13.9.3 Jiangsu Tianniao C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Jiangsu Tianniao Main Business Overview
 - 13.9.5 Jiangsu Tianniao Latest Developments

13.10 Hunan Dezhi Advanced Materials

13.10.1 Hunan Dezhi Advanced Materials Company Information

13.10.2 Hunan Dezhi Advanced Materials C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

13.10.3 Hunan Dezhi Advanced Materials C/SiC Ceramic Matrix Composites Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Hunan Dezhi Advanced Materials Main Business Overview

13.10.5 Hunan Dezhi Advanced Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. C/SiC Ceramic Matrix Composites Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. C/SiC Ceramic Matrix Composites Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Continuous Carbon Fiber Reinforced
- Table 4. Major Players of Discontinuous Carbon Fiber Reinforced
- Table 5. Global C/SiC Ceramic Matrix Composites Sales by Type (2021-2026) & (kg)
- Table 6. Global C/SiC Ceramic Matrix Composites Sales Market Share by Type (2021-2026)
- Table 7. Global C/SiC Ceramic Matrix Composites Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Type (2021-2026)
- Table 9. Global C/SiC Ceramic Matrix Composites Sale Price by Type (2021-2026) & (US\$/kg)
- Table 10. Major Players of Unidirectional
- Table 11. Major Players of Woven Fabric
- Table 12. Major Players of Multidirectional
- Table 13. Global C/SiC Ceramic Matrix Composites Sales by structure (2021-2026) & (kg)
- Table 14. Global C/SiC Ceramic Matrix Composites Sales Market Share by structure (2021-2026)
- Table 15. Global C/SiC Ceramic Matrix Composites Revenue by structure (2021-2026) & (\$ million)
- Table 16. Global C/SiC Ceramic Matrix Composites Revenue Market Share by structure (2021-2026)
- Table 17. Global C/SiC Ceramic Matrix Composites Sale Price by structure (2021-2026) & (US\$/kg)
- Table 18. Major Players of Liquid Phase Infiltration
- Table 19. Major Players of Chemical Vapor Deposition
- Table 20. Major Players of Hot Pressing Molding
- Table 21. Major Players of Thermochemical Method
- Table 22. Global C/SiC Ceramic Matrix Composites Sales by process (2021-2026) & (kg)
- Table 23. Global C/SiC Ceramic Matrix Composites Sales Market Share by process

(2021-2026)

Table 24. Global C/SiC Ceramic Matrix Composites Revenue by process (2021-2026) & (\$ million)

Table 25. Global C/SiC Ceramic Matrix Composites Revenue Market Share by process (2021-2026)

Table 26. Global C/SiC Ceramic Matrix Composites Sale Price by process (2021-2026) & (US\$/kg)

Table 27. Global C/SiC Ceramic Matrix Composites Sale by Application (2021-2026) & (kg)

Table 28. Global C/SiC Ceramic Matrix Composites Sale Market Share by Application (2021-2026)

Table 29. Global C/SiC Ceramic Matrix Composites Revenue by Application (2021-2026) & (\$ million)

Table 30. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Application (2021-2026)

Table 31. Global C/SiC Ceramic Matrix Composites Sale Price by Application (2021-2026) & (US\$/kg)

Table 32. Global C/SiC Ceramic Matrix Composites Sales by Company (2021-2026) & (kg)

Table 33. Global C/SiC Ceramic Matrix Composites Sales Market Share by Company (2021-2026)

Table 34. Global C/SiC Ceramic Matrix Composites Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Company (2021-2026)

Table 36. Global C/SiC Ceramic Matrix Composites Sale Price by Company (2021-2026) & (US\$/kg)

Table 37. Key Manufacturers C/SiC Ceramic Matrix Composites Producing Area Distribution and Sales Area

Table 38. Players C/SiC Ceramic Matrix Composites Products Offered

Table 39. C/SiC Ceramic Matrix Composites Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global C/SiC Ceramic Matrix Composites Sales by Geographic Region (2021-2026) & (kg)

Table 43. Global C/SiC Ceramic Matrix Composites Sales Market Share Geographic Region (2021-2026)

Table 44. Global C/SiC Ceramic Matrix Composites Revenue by Geographic Region

(2021-2026) & (\$ millions)

Table 45. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global C/SiC Ceramic Matrix Composites Sales by Country/Region (2021-2026) & (kg)

Table 47. Global C/SiC Ceramic Matrix Composites Sales Market Share by Country/Region (2021-2026)

Table 48. Global C/SiC Ceramic Matrix Composites Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas C/SiC Ceramic Matrix Composites Sales by Country (2021-2026) & (kg)

Table 51. Americas C/SiC Ceramic Matrix Composites Sales Market Share by Country (2021-2026)

Table 52. Americas C/SiC Ceramic Matrix Composites Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas C/SiC Ceramic Matrix Composites Sales by Type (2021-2026) & (kg)

Table 54. Americas C/SiC Ceramic Matrix Composites Sales by Application (2021-2026) & (kg)

Table 55. APAC C/SiC Ceramic Matrix Composites Sales by Region (2021-2026) & (kg)

Table 56. APAC C/SiC Ceramic Matrix Composites Sales Market Share by Region (2021-2026)

Table 57. APAC C/SiC Ceramic Matrix Composites Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC C/SiC Ceramic Matrix Composites Sales by Type (2021-2026) & (kg)

Table 59. APAC C/SiC Ceramic Matrix Composites Sales by Application (2021-2026) & (kg)

Table 60. Europe C/SiC Ceramic Matrix Composites Sales by Country (2021-2026) & (kg)

Table 61. Europe C/SiC Ceramic Matrix Composites Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe C/SiC Ceramic Matrix Composites Sales by Type (2021-2026) & (kg)

Table 63. Europe C/SiC Ceramic Matrix Composites Sales by Application (2021-2026) & (kg)

Table 64. Middle East & Africa C/SiC Ceramic Matrix Composites Sales by Country (2021-2026) & (kg)

Table 65. Middle East & Africa C/SiC Ceramic Matrix Composites Revenue Market

Share by Country (2021-2026)

Table 66. Middle East & Africa C/SiC Ceramic Matrix Composites Sales by Type (2021-2026) & (kg)

Table 67. Middle East & Africa C/SiC Ceramic Matrix Composites Sales by Application (2021-2026) & (kg)

Table 68. Key Market Drivers & Growth Opportunities of C/SiC Ceramic Matrix Composites

Table 69. Key Market Challenges & Risks of C/SiC Ceramic Matrix Composites

Table 70. Key Industry Trends of C/SiC Ceramic Matrix Composites

Table 71. C/SiC Ceramic Matrix Composites Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. C/SiC Ceramic Matrix Composites Distributors List

Table 74. C/SiC Ceramic Matrix Composites Customer List

Table 75. Global C/SiC Ceramic Matrix Composites Sales Forecast by Region (2027-2032) & (kg)

Table 76. Global C/SiC Ceramic Matrix Composites Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas C/SiC Ceramic Matrix Composites Sales Forecast by Country (2027-2032) & (kg)

Table 78. Americas C/SiC Ceramic Matrix Composites Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC C/SiC Ceramic Matrix Composites Sales Forecast by Region (2027-2032) & (kg)

Table 80. APAC C/SiC Ceramic Matrix Composites Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe C/SiC Ceramic Matrix Composites Sales Forecast by Country (2027-2032) & (kg)

Table 82. Europe C/SiC Ceramic Matrix Composites Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa C/SiC Ceramic Matrix Composites Sales Forecast by Country (2027-2032) & (kg)

Table 84. Middle East & Africa C/SiC Ceramic Matrix Composites Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global C/SiC Ceramic Matrix Composites Sales Forecast by Type (2027-2032) & (kg)

Table 86. Global C/SiC Ceramic Matrix Composites Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global C/SiC Ceramic Matrix Composites Sales Forecast by Application (2027-2032) & (kg)

Table 88. Global C/SiC Ceramic Matrix Composites Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. SGL Carbon Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 90. SGL Carbon C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 91. SGL Carbon C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 92. SGL Carbon Main Business

Table 93. SGL Carbon Latest Developments

Table 94. Safran Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 95. Safran C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 96. Safran C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 97. Safran Main Business

Table 98. Safran Latest Developments

Table 99. GE Aviation Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 100. GE Aviation C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 101. GE Aviation C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 102. GE Aviation Main Business

Table 103. GE Aviation Latest Developments

Table 104. Schunk Carbon Technology Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 105. Schunk Carbon Technology C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 106. Schunk Carbon Technology C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 107. Schunk Carbon Technology Main Business

Table 108. Schunk Carbon Technology Latest Developments

Table 109. Mitsubishi Chemical Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 110. Mitsubishi Chemical C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 111. Mitsubishi Chemical C/SiC Ceramic Matrix Composites Sales (kg), Revenue

(\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 112. Mitsubishi Chemical Main Business

Table 113. Mitsubishi Chemical Latest Developments

Table 114. Boyun New Material Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 115. Boyun New Material C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 116. Boyun New Material C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 117. Boyun New Material Main Business

Table 118. Boyun New Material Latest Developments

Table 119. Sinoma Technology Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 120. Sinoma Technology C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 121. Sinoma Technology C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 122. Sinoma Technology Main Business

Table 123. Sinoma Technology Latest Developments

Table 124. Torch Electronics Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 125. Torch Electronics C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 126. Torch Electronics C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 127. Torch Electronics Main Business

Table 128. Torch Electronics Latest Developments

Table 129. Jiangsu Tianniao Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 130. Jiangsu Tianniao C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 131. Jiangsu Tianniao C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 132. Jiangsu Tianniao Main Business

Table 133. Jiangsu Tianniao Latest Developments

Table 134. Hunan Dezhi Advanced Materials Basic Information, C/SiC Ceramic Matrix Composites Manufacturing Base, Sales Area and Its Competitors

Table 135. Hunan Dezhi Advanced Materials C/SiC Ceramic Matrix Composites Product Portfolios and Specifications

Table 136. Hunan Dezhi Advanced Materials C/SiC Ceramic Matrix Composites Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 137. Hunan Dezhi Advanced Materials Main Business

Table 138. Hunan Dezhi Advanced Materials Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of C/SiC Ceramic Matrix Composites
- Figure 2. C/SiC Ceramic Matrix Composites Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global C/SiC Ceramic Matrix Composites Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global C/SiC Ceramic Matrix Composites Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. C/SiC Ceramic Matrix Composites Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. C/SiC Ceramic Matrix Composites Sales Market Share by Country/Region (2025)
- Figure 10. C/SiC Ceramic Matrix Composites Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Continuous Carbon Fiber Reinforced
- Figure 12. Product Picture of Discontinuous Carbon Fiber Reinforced
- Figure 13. Global C/SiC Ceramic Matrix Composites Sales Market Share by Type in 2026
- Figure 14. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Unidirectional
- Figure 16. Product Picture of Woven Fabric
- Figure 17. Product Picture of Multidirectional
- Figure 18. Global C/SiC Ceramic Matrix Composites Sales Market Share by structure in 2026
- Figure 19. Global C/SiC Ceramic Matrix Composites Revenue Market Share by structure (2021-2026)
- Figure 20. Product Picture of Liquid Phase Infiltration
- Figure 21. Product Picture of Chemical Vapor Deposition
- Figure 22. Product Picture of Hot Pressing Molding
- Figure 23. Product Picture of Thermochemical Method
- Figure 24. Global C/SiC Ceramic Matrix Composites Sales Market Share by process in 2026
- Figure 25. Global C/SiC Ceramic Matrix Composites Revenue Market Share by process (2021-2026)

- Figure 26. C/SiC Ceramic Matrix Composites Consumed in Aerospace & Aviation Field
- Figure 27. Global C/SiC Ceramic Matrix Composites Market: Aerospace & Aviation Field (2021-2026) & (kg)
- Figure 28. C/SiC Ceramic Matrix Composites Consumed in Automotive Field
- Figure 29. Global C/SiC Ceramic Matrix Composites Market: Automotive Field (2021-2026) & (kg)
- Figure 30. C/SiC Ceramic Matrix Composites Consumed in Nuclear Energy Field
- Figure 31. Global C/SiC Ceramic Matrix Composites Market: Nuclear Energy Field (2021-2026) & (kg)
- Figure 32. C/SiC Ceramic Matrix Composites Consumed in Industrial High-Temperature Field
- Figure 33. Global C/SiC Ceramic Matrix Composites Market: Industrial High-Temperature Field (2021-2026) & (kg)
- Figure 34. C/SiC Ceramic Matrix Composites Consumed in Others
- Figure 35. Global C/SiC Ceramic Matrix Composites Market: Others (2021-2026) & (kg)
- Figure 36. Global C/SiC Ceramic Matrix Composites Sale Market Share by Application (2025)
- Figure 37. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Application in 2025
- Figure 38. C/SiC Ceramic Matrix Composites Sales by Company in 2025 (kg)
- Figure 39. Global C/SiC Ceramic Matrix Composites Sales Market Share by Company in 2025
- Figure 40. C/SiC Ceramic Matrix Composites Revenue by Company in 2025 (\$ millions)
- Figure 41. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Company in 2025
- Figure 42. Global C/SiC Ceramic Matrix Composites Sales Market Share by Geographic Region (2021-2026)
- Figure 43. Global C/SiC Ceramic Matrix Composites Revenue Market Share by Geographic Region in 2025
- Figure 44. Americas C/SiC Ceramic Matrix Composites Sales 2021-2026 (kg)
- Figure 45. Americas C/SiC Ceramic Matrix Composites Revenue 2021-2026 (\$ millions)
- Figure 46. APAC C/SiC Ceramic Matrix Composites Sales 2021-2026 (kg)
- Figure 47. APAC C/SiC Ceramic Matrix Composites Revenue 2021-2026 (\$ millions)
- Figure 48. Europe C/SiC Ceramic Matrix Composites Sales 2021-2026 (kg)
- Figure 49. Europe C/SiC Ceramic Matrix Composites Revenue 2021-2026 (\$ millions)
- Figure 50. Middle East & Africa C/SiC Ceramic Matrix Composites Sales 2021-2026 (kg)
- Figure 51. Middle East & Africa C/SiC Ceramic Matrix Composites Revenue 2021-2026 (\$ millions)

Figure 52. Americas C/SiC Ceramic Matrix Composites Sales Market Share by Country in 2025

Figure 53. Americas C/SiC Ceramic Matrix Composites Revenue Market Share by Country (2021-2026)

Figure 54. Americas C/SiC Ceramic Matrix Composites Sales Market Share by Type (2021-2026)

Figure 55. Americas C/SiC Ceramic Matrix Composites Sales Market Share by Application (2021-2026)

Figure 56. United States C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC C/SiC Ceramic Matrix Composites Sales Market Share by Region in 2025

Figure 61. APAC C/SiC Ceramic Matrix Composites Revenue Market Share by Region (2021-2026)

Figure 62. APAC C/SiC Ceramic Matrix Composites Sales Market Share by Type (2021-2026)

Figure 63. APAC C/SiC Ceramic Matrix Composites Sales Market Share by Application (2021-2026)

Figure 64. China C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 68. India C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 69. Australia C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe C/SiC Ceramic Matrix Composites Sales Market Share by Country in

2025

Figure 72. Europe C/SiC Ceramic Matrix Composites Revenue Market Share by Country (2021-2026)

Figure 73. Europe C/SiC Ceramic Matrix Composites Sales Market Share by Type (2021-2026)

Figure 74. Europe C/SiC Ceramic Matrix Composites Sales Market Share by Application (2021-2026)

Figure 75. Germany C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 76. France C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa C/SiC Ceramic Matrix Composites Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa C/SiC Ceramic Matrix Composites Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa C/SiC Ceramic Matrix Composites Sales Market Share by Application (2021-2026)

Figure 83. Egypt C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries C/SiC Ceramic Matrix Composites Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of C/SiC Ceramic Matrix Composites in 2026

Figure 89. Manufacturing Process Analysis of C/SiC Ceramic Matrix Composites

Figure 90. Industry Chain Structure of C/SiC Ceramic Matrix Composites

Figure 91. Channels of Distribution

Figure 92. Global C/SiC Ceramic Matrix Composites Sales Market Forecast by Region

(2027-2032)

Figure 93. Global C/SiC Ceramic Matrix Composites Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global C/SiC Ceramic Matrix Composites Sales Market Share Forecast by Type (2027-2032)

Figure 95. Global C/SiC Ceramic Matrix Composites Revenue Market Share Forecast by Type (2027-2032)

Figure 96. Global C/SiC Ceramic Matrix Composites Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global C/SiC Ceramic Matrix Composites Revenue Market Share Forecast by Application (2027-2032)

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