

Global C/SiC Ceramic Matrix Composites Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global C/SiC Ceramic Matrix Composites market size is expected to reach \$ 19592 million by 2032, rising at a market growth of 17.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global C/SiC Ceramic Matrix Composites production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for C/SiC Ceramic Matrix Composites and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of C/SiC Ceramic Matrix Composites that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global C/SiC Ceramic Matrix Composites total production and demand, 2021-2032, (kg)

Global C/SiC Ceramic Matrix Composites total production value, 2021-2032, (USD Million)

Global C/SiC Ceramic Matrix Composites production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global C/SiC Ceramic Matrix Composites consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: C/SiC Ceramic Matrix Composites domestic production, consumption, key domestic manufacturers and share

Global C/SiC Ceramic Matrix Composites production by manufacturer, production,

price, value and market share 2021-2026, (USD Million) & (kg)

Global C/SiC Ceramic Matrix Composites production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global C/SiC Ceramic Matrix Composites production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global C/SiC Ceramic Matrix Composites market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SGL Carbon, Safran, GE Aviation, Schunk Carbon Technology, Mitsubishi Chemical, Boyun New Material, Sinoma Technology, Torch Electronics, Jiangsu Tianniao, Hunan Dezhi Advanced Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World C/SiC Ceramic Matrix Composites market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global C/SiC Ceramic Matrix Composites Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global C/SiC Ceramic Matrix Composites Market, Segmentation by Type:

Continuous Carbon Fiber Reinforced

Discontinuous Carbon Fiber Reinforced

Global C/SiC Ceramic Matrix Composites Market, Segmentation by structure:

Unidirectional

Woven Fabric

Multidirectional

Global C/SiC Ceramic Matrix Composites Market, Segmentation by process:

Liquid Phase Infiltration

Chemical Vapor Deposition

Hot Pressing Molding

Thermochemical Method

Global C/SiC Ceramic Matrix Composites Market, Segmentation by Application:

Aerospace & Aviation Field

Automotive Field

Nuclear Energy Field

Industrial High-Temperature Field

Others

Companies Profiled:

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 Answered:

1. How big is the global C/SiC Ceramic Matrix Composites market?
2. What is the demand of the global C/SiC Ceramic Matrix Composites market?
3. What is the year over year growth of the global C/SiC Ceramic Matrix Composites market?
4. What is the production and production value of the global C/SiC Ceramic Matrix Composites market?

5. Who are the key producers in the global C/SiC Ceramic Matrix Composites market?
6. What are the growth factors driving the market demand?

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