

Global C/SiC Ceramic Matrix Composites Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global C/SiC Ceramic Matrix Composites market size was valued at US\$ 6174 million in 2025 and is forecast to a readjusted size of US\$ 19592 million by 2032 with a CAGR of 17.9% during review period.

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 is a detailed and comprehensive analysis for global C/SiC Ceramic Matrix Composites market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global C/SiC Ceramic Matrix Composites market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global C/SiC Ceramic Matrix Composites market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global C/SiC Ceramic Matrix Composites market size and forecasts, by Type and by

Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global C/SiC Ceramic Matrix Composites market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for C/SiC Ceramic Matrix Composites

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global C/SiC Ceramic Matrix Composites market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

C/SiC Ceramic Matrix Composites market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Continuous Carbon Fiber Reinforced

Discontinuous Carbon Fiber Reinforced

Market segment by structure

Unidirectional

Woven Fabric

Multidirectional

Market segment by process

Liquid Phase Infiltration

Chemical Vapor Deposition

Hot Pressing Molding

Thermochemical Method

Market segment by Application

Aerospace & Aviation Field

Automotive Field

Nuclear Energy Field

Industrial High-Temperature Field

Others

Major players covered

SGL Carbon

Safran

GE Aviation

Schunk Carbon Technology

Mitsubishi Chemical

Boyun New Material

Sinoma Technology

Torch Electronics

Jiangsu Tianniao

Hunan Dezhi Advanced Materials

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe C/SiC Ceramic Matrix Composites product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of C/SiC Ceramic Matrix Composites, with price, sales quantity, revenue, and global market share of C/SiC Ceramic Matrix Composites from 2021 to 2026.

Chapter 3, the C/SiC Ceramic Matrix Composites competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the C/SiC Ceramic Matrix Composites breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and C/SiC Ceramic Matrix Composites market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of C/SiC Ceramic Matrix Composites.

Chapter 14 and 15, to describe C/SiC Ceramic Matrix Composites sales channel, distributors, customers, research findings and conclusion.

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