

# Global Carbon-Carbon Composite Material Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Carbon-Carbon Composite Material market size was valued at USD 2633.3 million in 2023 and is forecast to a readjusted size of USD 2987.3 million by 2030 with a CAGR of 1.8% during review period.

Carbon fiber reinforced carbon matrix materials (Carbon-Carbon Composite Material, C/C) is made from carbon or graphite fiber and matrix of carbon or graphite matrix composite. It has a high temperature, good thermal conductivity, thermal shock, ablation rate, high strength under high temperature, a certain degree of chemical inertness and other special properties.

Global Carbon-Carbon Composite Material key players include SGL Carbon, Toyo Tanso, Tokai Carbon, Hexcel, Nippon Carbon, etc. Global top five manufacturers hold a share about 50%.

Asia-Pacific is the largest market, with a share about 40%, followed by Americas and Europe, both have a share about 55 percent.

In terms of product, Chemical Vapor Deposition is the largest segment, with a share about 55%. And in terms of application, the largest application is Aerospace Items, followed by CZ and DSS Furnaces.

The Global Info Research report includes an overview of the development of the Carbon-Carbon Composite Material industry chain, the market status of CZ and DSS Furnaces (Chemical Vapor Deposition, Liquid Impregnation Process), C/C Grid Shelving Systems

(Chemical Vapor Deposition, Liquid Impregnation Process), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Carbon-Carbon Composite Material.

Regionally, the report analyzes the Carbon-Carbon Composite Material markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Carbon-Carbon Composite Material market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Carbon-Carbon Composite Material market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Carbon-Carbon Composite Material industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Tonnes), revenue generated, and market share of different by Type (e.g., Chemical Vapor Deposition, Liquid Impregnation Process).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Carbon-Carbon Composite Material market.

**Regional Analysis:** The report involves examining the Carbon-Carbon Composite Material market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Carbon-Carbon Composite Material market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Carbon-Carbon Composite Material:

**Company Analysis:** Report covers individual Carbon-Carbon Composite Material manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Carbon-Carbon Composite Material. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (CZ and DSS Furnaces, C/C Grid Shelving Systems).

**Technology Analysis:** Report covers specific technologies relevant to Carbon-Carbon Composite Material. It assesses the current state, advancements, and potential future developments in Carbon-Carbon Composite Material areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Carbon-Carbon Composite Material market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Carbon-Carbon Composite Material market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Chemical Vapor Deposition

Liquid Impregnation Process

## Market segment by Application

CZ and DSS Furnaces

C/C Grid Shelving Systems

Glass Handling Industry

Aerospace Items

Basic C/C Plate Stock Producing

Others

## Major players covered

SGL Carbon

Toyo Tanso

Tokai Carbon

Hexcel

Nippon Carbon

MERSEN BENELUX

Toray

CFC Design Inc.

Carbon Composites Inc.

GrafTech

Schunk

Americarb

Graphtek LLC

Bay Composites Inc.

Luhang Carbon

GOES

Haoshi Carbon

KBC

Jiuhua Carbon

Chemshine

Boyun

Chaoma

Baimtec

Jining Carbon

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 Carbon-Carbon Composite Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon-Carbon Composite Material, with price, sales, revenue and global market share of Carbon-Carbon Composite Material from 2019 to 2024.

Chapter 3, the Carbon-Carbon Composite Material competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon-Carbon Composite Material breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Carbon-Carbon Composite Material market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Carbon-Carbon Composite Material.

Chapter 14 and 15, to describe Carbon-Carbon Composite Material sales channel, distributors, customers, research findings and conclusion.

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