

Global Carbon-carbon Composites for Aerospace Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Carbon-carbon Composites for Aerospace market size was valued at US\$ 1443 million in 2024 and is forecast to a readjusted size of USD 1844 million by 2031 with a CAGR of 3.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Carbon-carbon composites are high-performance composite materials consisting of carbon fibers and a carbon matrix. They exhibit excellent mechanical strength and thermal stability at high temperatures, and have high heat resistance and thermal shock resistance, so they are widely used in the aerospace field. This material is often used to manufacture brake discs for aerospace vehicles, missile nose cones, rocket nozzles, and other structural parts that need to withstand extreme temperatures. Carbon/carbon composites are formed by weaving or laying carbon fibers together, and then carbonizing them at high temperatures to obtain high-strength, lightweight composites.

This report is a detailed and comprehensive analysis for global Carbon-carbon Composites for Aerospace 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 Carbon-carbon Composites for Aerospace market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Carbon-carbon Composites for Aerospace market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Carbon-carbon Composites for Aerospace market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Carbon-carbon Composites for Aerospace market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

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 Carbon-carbon Composites for Aerospace
- 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 Carbon-carbon Composites for Aerospace 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, Toyo Tanso, Tokai Carbon, Hexcel, Nippon Carbon, MERSEN BENELUX, Schunk, Americarb, Carbon Composites, FMI, etc.

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

Market Segmentation

Carbon-carbon Composites for Aerospace market is split by Type and by Application. For the period 2020-2031, 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

Chemical Vapor Deposition Method

Liquid Impregnation Method

Market segment by Application

Single Crystal Silicon Pulling Furnace

Multicrystalline Silicon Ingot Furnace

Other

Major players covered

SGL Carbon

Toyo Tanso

Tokai Carbon

Hexcel

Nippon Carbon

MERSEN BENELUX

Schunk

Americarb

Carbon Composites

FMI

Luhang Carbon

Graphtek

KBC

Boyun

Chaoma

Jiuhua Carbon

Chemshine

Bay Composites

Haoshi Carbon

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 Composites for Aerospace product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon-carbon Composites for Aerospace, with price, sales quantity, revenue, and global market share of Carbon-carbon Composites for Aerospace from 2020 to 2025.

Chapter 3, the Carbon-carbon Composites for Aerospace competitive situation, sales

quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon-carbon Composites for Aerospace breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Carbon-carbon Composites for Aerospace market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Composites for Aerospace.

Chapter 14 and 15, to describe Carbon-carbon Composites for Aerospace sales channel, distributors, customers, research findings and conclusion.

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