

Global Carbon-carbon Composites for Aerospace Market Growth 2026-2032

<https://marketpublishers.com/r/G1241182CE47EN.html>

Date: June 2026

Pages: 135

Price: US\$ 3,660.00 (Single User License)

ID: G1241182CE47EN

Abstracts

The global Carbon-carbon Composites for Aerospace market size is predicted to grow from US\$ 1417 million in 2025 to US\$ 1836 million in 2032; it is expected to grow at a CAGR of 3.8% from 2026 to 2032.

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.

United States market for Carbon-carbon Composites for Aerospace is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Carbon-carbon Composites for Aerospace is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Carbon-carbon Composites for Aerospace is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Carbon-carbon Composites for Aerospace players cover SGL Carbon, Toyo

Tanso, Tokai Carbon, Hexcel, Nippon Carbon, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Carbon-carbon Composites for Aerospace 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 Carbon-carbon Composites for Aerospace portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Carbon-carbon Composites for Aerospace market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Carbon-carbon Composites for Aerospace 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 Carbon-carbon Composites for Aerospace.

This report presents a comprehensive overview, market shares, and growth opportunities of Carbon-carbon Composites for Aerospace market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Chemical Vapor Deposition Method

Liquid Impregnation Method

Segmentation by Application:

Single Crystal Silicon Pulling Furnace

Multicrystalline Silicon Ingot Furnace

Other

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

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Carbon-carbon Composites for Aerospace market?

What factors are driving Carbon-carbon Composites for Aerospace market growth, globally and by region?

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

How do Carbon-carbon Composites for Aerospace market opportunities vary by end market size?

How does Carbon-carbon Composites for Aerospace break out by Type, by Application?

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