

# Global Carbon Composites 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 Composites market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

There are two preparation methods for carbon-based composite materials: one is impregnation method, that is, impregnating molten petroleum or coal tar pitch with reinforcing body, and then treated by carbonization and graphite, the matrix of which is graphite carbon, which has a layered strip structure, and the performance is Anisotropic. Also, the reinforcing body is impregnated with a thermosetting resin such as decyl alcohol or phenolic, and the substrate is only glassy carbon, that is, an amorphous carbon structure, and the properties are isotropic; the other is the CVD method, that is, the heat of the hydrocarbon compound. Carbon dissolving is deposited on the reinforcement to recombine. The carbon matrix of this method is pyrocarbon like glassy carbon. Carbon/carbon composites are not resistant to oxidation, so it is sometimes necessary to add an oxidation resistant coating.

The increasing use of carbon composites in commercial aircraft will be one of the major factors that will have a positive impact on the growth of the market. Boeing and Airbus are the two major OEMs who extensively use carbon composites to manufacture their planes. For instance, Boeing 787 Dreamliner launched in 2011 and AirbusA350 launched in 2015 are made from carbon composite. The application of carbon composites results in the production of the lightweight planes that are more fuel efficient. This in turn, benefits passengers by making the fares cheaper. In addition, carbon composites based aircraft ensures the safety of passengers by maintaining the cabin pressure.

The Global Info Research report includes an overview of the development of the Carbon Composites industry chain, the market status of Sporting Goods (Concrete, Plastics), Automotive (Concrete, Plastics), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Carbon Composites.

Regionally, the report analyzes the Carbon Composites 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 Composites market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Carbon Composites 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 Composites 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 (K MT), revenue generated, and market share of different by Type (e.g., Concrete, Plastics).

**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 Composites market.

**Regional Analysis:** The report involves examining the Carbon Composites 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 Composites 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 Composites:

**Company Analysis:** Report covers individual Carbon Composites 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 Composites. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Sporting Goods, Automotive).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Carbon Composites 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 Composites 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

Concrete

Plastics

Steel

Aluminium

Others

#### Market segment by Application

Sporting Goods

Automotive

Wind Energy

Aerospace and Defense

#### Major players covered

Hexcel

SGL Group

Solvay

TEIJIN

Toray Industries

Exel Group World Wide

Gurit

Innegra Technologies

Koninklijke Ten Cate

Mitsubishi Chemical

METYX Composites

Nippon Graphite Fiber

PLASAN CARBON COMPOSITES

SAERTEX

Sigmatex

TEI/TTC

TPI Composites

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

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

Chapter 3, the Carbon Composites competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Carbon Composites 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 Composites 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 Composites.

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

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