

Global Carbon Fiber 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 Fiber market size was valued at US\$ 2938 million in 2023 and is forecast to a readjusted size of USD 4822 million by 2030 with a CAGR of 7.3% during review period.

Carbon fiber is a strong, lightweight material made primarily of carbon atoms that are bonded together in a crystalline structure. It is produced by heating polyacrylonitrile (PAN) or other precursor materials to high temperatures in a process called pyrolysis. The carbon atoms are aligned in long, thin strands, giving carbon fiber its exceptional strength-to-weight ratio, stiffness, and resistance to heat and corrosion. Carbon fiber is widely used in various industries, including aerospace, automotive, sports equipment, and renewable energy, due to its superior properties compared to traditional materials like steel and aluminum.

The global carbon fiber capacity is expected to continue growing as industries increasingly recognize the material's advantages in terms of strength, weight, and sustainability. However, challenges remain, such as high production costs and the need for new manufacturing technologies. In the future, innovations in recycling and reusing carbon fiber are likely to further drive the expansion of the market, making carbon fiber more cost-effective and sustainable. Producers like Toray, SGL Carbon, Mitsubishi Chemical and some new companies in China are actively to invest in new capacity.

Market Drivers:

Growing Demand for Lightweight Materials: The automotive, aerospace, and sports industries are increasingly adopting carbon fiber due to its high strength-to-weight ratio. It helps improve fuel efficiency in vehicles and aircraft, which is driving its demand.

Environmental Benefits: Carbon fiber components contribute to reducing the carbon footprint of vehicles and industrial machinery by enabling lighter designs, which consume less energy.

Advancements in Manufacturing Technologies: The development of cost-effective manufacturing processes, such as automated fiber placement and 3D printing, is helping reduce production costs and make carbon fiber more accessible for mass production.

Increasing Adoption in Renewable Energy: Carbon fiber is being used in wind turbine blades, where its strength and lightness help improve the efficiency of renewable energy systems. This contributes to the growth of carbon fiber demand in the energy sector.

Aerospace and Defense Sector: The demand for advanced materials in military and commercial aerospace applications continues to drive market growth. Carbon fiber's use in fuselages, wings, and other critical components is growing due to its superior performance characteristics.

High-Performance Sports Equipment: The demand for high-quality sporting goods such as bicycles, golf clubs, tennis rackets, and skis is driving the adoption of carbon fiber.

This report is a detailed and comprehensive analysis for global Carbon Fiber 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 2024, are provided.

Key Features:

Global Carbon Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/Kg), 2019-2030

Global Carbon Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/Kg), 2019-2030

Global Carbon Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/Kg), 2019-2030

Global Carbon Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (MT), and ASP (USD/Kg), 2019-2024

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 Fiber

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 Fiber 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 Toray, MCCFC, Teijin, Hexcel, Formosa Plastics, SGL Carbon, Syensqo, Hyosung, DowAksa, Umatex, etc.

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

Market Segmentation

Carbon Fiber 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Regular-Tow Carbon Fiber
- Large-Tow Carbon Fiber

Market segment by Application

- Wind Energy
- Sports/Leisure
- Aerospace and Defense
- Pressure Vessel
- Automotive
- Other

Major players covered

- Toray
- MCCFC
- Teijin
- Hexcel
- Formosa Plastics
- SGL Carbon
- Syensqo
- Hyosung
- DowAksa

- Umatex
- Taekwang Industrial
- Jilin Chemical Fibre
- Zhongfu Shenyang
- Weihai Guangwei Composites
- Sinofibers Technology
- Jiangsu Hengshen
- Zhejiang Baojing
- Newtech Group

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

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

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

Chapter 4, the Carbon Fiber 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 by Application, with sales market share and growth rate by Type, by 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 2019

to 2024.and Carbon Fiber market forecast, by regions, by Type, and by 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 Fiber.

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

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