

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 USD 1819.9 million in 2023 and is forecast to a readjusted size of USD 1736.3 million by 2030 with a CAGR of -0.7% during review period.

Carbon fiber is a long, thin strand of material about 0.0002-0.0004 in (0.005-0.010 mm) in diameter and composed mostly of carbon atoms. The carbon atoms are bonded together in microscopic crystals that are more or less aligned parallel to the long axis of the fiber. The crystal alignment makes the fiber incredibly strong for its size. Several thousand carbon fibers are twisted together to form a yarn, which may be used by itself or woven into a fabric. The yarn or fabric is combined with epoxy and wound or molded into shape to form various composite materials. Carbon fiber-reinforced composite materials are used to make aircraft carbon fiber compared to human hair and spacecraft parts, racing car bodies, golf club shafts, bicycle frames, fishing rods, automobile springs, sailboat masts, and many other components where light weight and high strength are needed.

The major manufacturers of carbon fiber are Toray, Zoltek (Toray), Mitsubishi Rayon, Toho Tenax, SGL and so on. The top three accounted for about 45%.

North America is the main market, accounting for about 30%, followed by Europe at about 20%.

The Global Info Research report includes an overview of the development of the Carbon Fiber industry chain, the market status of Industrial Materials (Regular-Tow Carbon Fiber, Large-Tow Carbon Fiber), Aerospace (Regular-Tow Carbon Fiber, Large-Tow Carbon Fiber), and key enterprises in developed and developing market, and analysed

the cutting-edge technology, patent, hot applications and market trends of Carbon Fiber.

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

Key Features:

The report presents comprehensive understanding of the Carbon Fiber 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 Fiber 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 (MT), revenue generated, and market share of different by Type (e.g., Regular-Tow Carbon Fiber, Large-Tow Carbon Fiber).

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 Fiber market.

Regional Analysis: The report involves examining the Carbon Fiber 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 Fiber 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 Fiber:

Company Analysis: Report covers individual Carbon Fiber 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 Fiber. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial Materials, Aerospace).

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

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

Market segment by Type

Regular-Tow Carbon Fiber

Large-Tow Carbon Fiber

Market segment by Application

Industrial Materials

Aerospace

Sports/Leisure

Medical Industry

Major players covered

Toray

ZOLTEK (Toray)

Mitsubishi Rayon

Toho Tenax (Teijin)

Hexcel

Formosa Plastics Corp

SGL

Cytec Solvay

DuPont

Hyosung

Taekwang Industrial

Zhongfu Shenying

Jiangsu Hengshen

Weihai TuoZhan Fiber

Bluestar Fibres

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, 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 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 Fiber 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 Fiber.

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

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