

# Global PAN 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 PAN Carbon Fiber market size was valued at USD 3064.2 million in 2023 and is forecast to a readjusted size of USD 6402.5 million by 2030 with a CAGR of 11.1% during review period.

Polyacrylonitrile (PAN)-based carbon fiber is a high-performance carbon fiber with excellent properties such as high elastic modulus, high strength, high thermal expansion coefficient and excellent dimensional stability. The preparation process includes precursor fiber preparation, pre-oxidation, carbonization, graphitization and other steps, and finally produces PAN-based carbon fiber composite materials, which can be used in aerospace, automobiles, sports equipment and other fields.

With the advancement of science and technology and the expansion of application fields, the manufacturing technology and performance of PAN-based carbon fibers will also be further improved. At the same time, due to increasingly higher requirements for environmental protection and sustainable development, the green production and recycling of PAN-based carbon fibers will also become an important development direction in the future. In addition, with the continuous recovery of the global economy and the acceleration of a new round of technological revolution, the global PAN-based carbon fiber market will also open up new application prospects in broader fields.

The Global Info Research report includes an overview of the development of the PAN Carbon Fiber industry chain, the market status of Aerospace & Defense (Regular-Tow Carbon Fiber, Large-Tow Carbon Fiber), Automotive (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

## PAN Carbon Fiber.

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

### Key Features:

The report presents comprehensive understanding of the PAN 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 PAN 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 (K 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 PAN Carbon Fiber market.

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

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

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

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

PAN 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

Aerospace & Defense

Automotive

Sporting Good

Others

#### Major players covered

Toray

ZOLTEK (Toray)

Mitsubishi Rayon

Toho Tenax (Teijin)

Hexcel

Formosa Plastics Corp

SGL

Cytec Solvay

DowDuPont

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

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

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

Chapter 4, the PAN 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 PAN 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 PAN Carbon

Fiber.

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

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