

Global Pitch-based Carbon Fiber Precursor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Pitch-based Carbon Fiber Precursor market size was valued at US\$ 126 million in 2024 and is forecast to a readjusted size of USD 289 million by 2031 with a CAGR of 13.4% during review period.

Pitch-based carbon fiber precursor is a high-carbon-content raw material derived from petroleum pitch, coal tar pitch, or synthetic pitch. This precursor undergoes a carefully controlled spinning, stabilization, and carbonization process to produce pitch-based carbon fiber. Unlike polyacrylonitrile (PAN)-based precursors, which dominate the carbon fiber industry, pitch-based precursors enable the production of fibers with exceptionally high modulus, superior thermal conductivity, and excellent chemical resistance. These characteristics make them ideal for applications in aerospace, high-performance composites, thermal management systems, and electromagnetic shielding. The molecular structure of pitch provides a natural advantage in achieving ultra-high modulus fibers, but its processing is more complex, requiring precise control of thermal treatments and fiber alignment. The development of advanced pitch-based carbon fiber precursors continues to be a focus in research and industrial applications, especially for high-performance engineering solutions.

Drivers: The increasing market demand for carbon fiber in the downstream market has driven the demand for pitch-based carbon fiber precursor.

Renewable Energy Expansion: Wind energy is a significant driver, as larger wind turbine blades (over 100 meters) require high-strength carbon fiber composites for durability and weight reduction.

Rising Demand in Infrastructure and Construction: The use of carbon fiber-reinforced concrete (CFRC) in earthquake-resistant buildings and bridges is increasing due to its high durability and corrosion resistance.

Growing Demand from Aerospace and Automotive Industries: The aerospace sector increasingly adopts carbon fiber to reduce aircraft weight and improve fuel efficiency. The automotive industry is accelerating carbon fiber adoption, particularly in EVs.

This report is a detailed and comprehensive analysis for global Pitch-based Carbon Fiber Precursor 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 2025, are provided.

Key Features:

Global Pitch-based Carbon Fiber Precursor market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Pitch-based Carbon Fiber Precursor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Pitch-based Carbon Fiber Precursor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2020-2031

Global Pitch-based Carbon Fiber Precursor market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2020-2025

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 Pitch-based Carbon Fiber Precursor
- 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 Pitch-based Carbon Fiber Precursor 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 DowAksa, Montefibre MAE Technologies, Jilin Chemical Fiber, Taekwang Industrial, Mitsubishi Chemical Group, Toray, SGL Carbon (Fisipe), Zhongfu Shenyang, Sinopec Shanghai Petrochemical, Shandong Guotai Dacheng Technology, etc.

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

Market Segmentation

Pitch-based Carbon Fiber Precursor market is split by Type and by Application. For the period 2020-2031, 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

6K

12K

24K

48K

Other

Market segment by Application

Wind Turbine Blades

Civil Engineering

Aerospace

Automotive

Other

Major players covered

DowAksa

Montefibre MAE Technologies

Jilin Chemical Fiber

Taekwang Industrial

Mitsubishi Chemical Group

Toray

SGL Carbon (Fisipe)

Zhongfu Shenying

Sinopec Shanghai Petrochemical

Shandong Guotai Dacheng Technology

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:

Global Pitch-based Carbon Fiber Precursor Market 2025 by Manufacturers, Regions, Type and Application, Forecas...

Chapter 1, to describe Pitch-based Carbon Fiber Precursor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pitch-based Carbon Fiber Precursor, with price, sales quantity, revenue, and global market share of Pitch-based Carbon Fiber Precursor from 2020 to 2025.

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

Chapter 4, the Pitch-based Carbon Fiber Precursor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Pitch-based Carbon Fiber Precursor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Pitch-based Carbon Fiber Precursor.

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

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