

Global 48K Carbon Fiber Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 48K Carbon Fiber market size was valued at US\$ 1022 million in 2025 and is forecast to a readjusted size of US\$ 2581 million by 2032 with a CAGR of 14.3% during review period.

48K carbon fiber refers to a type of high-performance carbon fiber with 48,000 individual filaments in a single tow. This type of carbon fiber is widely used in industries that require high strength, lightweight, and cost-effective solutions, such as wind energy, automotive, aerospace. Compared to small tow fibers, 48K carbon fiber offers higher efficiency in large-scale production due to its broader coverage and lower production cost per unit area. It maintains excellent mechanical properties, including high tensile strength, modulus, and fatigue resistance, making it an ideal material for composite structures that demand durability and reliability.

Driver:

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.

Increasing Investments and Government Support: Governments and research institutions are investing in carbon fiber R&D to enhance domestic production and

reduce reliance on imports.

Restraint:

High Production Costs: Carbon fiber remains significantly more expensive than traditional materials like aluminum and steel, limiting its widespread adoption. Costly precursor materials and energy-intensive production processes contribute to high prices.

Competition from Alternative Materials: Advanced high-strength alloys, titanium, and composite plastics continue to compete with carbon fiber, especially in cost-sensitive industries.

Limited Production Capacity: Despite rising demand, global production capacity is still constrained, leading to supply chain issues and price fluctuations.

This report is a detailed and comprehensive analysis for global 48K 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 2025, are provided.

Key Features:

Global 48K Carbon Fiber market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 48K Carbon Fiber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 48K Carbon Fiber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global 48K Carbon Fiber market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

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 48K 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 48K 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, SGL Carbon, Formosa Plastics, DowAksa, Zhongfu Shenying, Baowu Carbon, Jiangsu Hengshen, Newtech Group, etc.

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

Market Segmentation

48K Carbon Fiber market is split by Type and by Application. For the period 2021-2032, 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

PAN-based

Pitch-based

Rayon-based

Market segment by Application

Wind Turbine Blades

Civil Engineering

Sports

Aerospace

Automotive

Other

Major players covered

Toray

MCCFC

SGL Carbon

Formosa Plastics

DowAksa

Zhongfu Shenying

Baowu Carbon

Jiangsu Hengshen

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 48K Carbon Fiber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 48K Carbon Fiber, with price, sales quantity, revenue, and global market share of 48K Carbon Fiber from 2021 to 2026.

Chapter 3, the 48K Carbon Fiber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 48K Carbon Fiber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and 48K Carbon Fiber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 48K Carbon Fiber.

Chapter 14 and 15, to describe 48K Carbon Fiber sales channel, distributors, customers, research findings and conclusion.

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