

Global 24K Carbon Fiber Market Growth 2026-2032

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Abstracts

The global 24K Carbon Fiber market size is predicted to grow from US\$ 697 million in 2025 to US\$ 1261 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

24K carbon fiber refers to a carbon fiber bundle containing approximately 24,000 monofilaments per bundle. It is a commonly used medium-coarse bundle type in industry, widely used in composite material molding and structural component manufacturing due to its combination of strength and economy. In 2024, global shipments of 24K carbon fiber were approximately 30,000 tons, with an average price of approximately US\$22 per kilogram. A typical production line has an annual capacity of approximately 2,000 tons. Upstream companies mainly include acrylonitrile and pitch precursor manufacturers, surface treatment agents and coating agents suppliers, chemical and solvent suppliers, and equipment suppliers. In the field of high-temperature furnace manufacturing, downstream enterprises are distributed in industries such as composite material prepreg and laminate manufacturing, aerospace structural components, wind turbine blade manufacturing, automotive lightweight parts, sporting goods and consumer electronics casings, etc. The industry's average gross profit margin is about 28%. In the product cost structure, precursor raw materials account for about 55%, carbonization and heat treatment energy consumption and equipment depreciation account for about 20%, surface coating, dimensional processing and post-processing account for about 10%, labor, manufacturing and quality inspection account for about 8%, and packaging, transportation and management account for about 5%. According to parameters, it can be divided into specifications such as 1K filament count. Carbon fibers are available in various grades, including 3K, 6K, 12K, 24K, and 50K. They are categorized by substrate (PAN-based and pitch-based), modulus (standard modulus, intermediate modulus, high modulus, ultra-high modulus), surface treatment and interface (standard size, high-temperature compatible size, epoxy compatible size), and form (pre-tow, fabric, unidirectional tape,

prepreg, and nonwoven felt). Demand and opportunity analysis shows downstream demand includes high-strength structural carbon fibers, sheets and prepregs, long fibers for wind turbine blades, and low- to medium-cost carbon fibers for lightweight automotive parts. They also include raw materials for composite material manufacturing and recycled carbon fiber raw materials. Downstream customers include aerospace and defense contractors, wind turbine manufacturers, automotive OEMs and parts manufacturers, rail transit manufacturers, high-end sports equipment and consumer electronics brands, composite material processing and mold companies, research institutions, and advanced materials testing organizations. Policy-driven opportunities include carbon neutrality and energy efficiency policies in various countries accelerating the application of lightweight and high-performance materials in the transportation and energy industries. Technological innovation-driven opportunities include lower-cost precursors and continuous carbonization processes, and wide-width prepreg technology. The maturity of carbon fiber recycling and regeneration technologies has reduced overall costs and promoted the popularization of low- and medium-cost high-performance products. Changes in consumer demand are reflected in the increased requirements of new energy vehicles and airlines for range and fuel efficiency, as well as the growing demand for performance and quality in high-end consumer goods. These factors have jointly created three main business opportunity paths: low-cost 24K products for mass production in automobiles, medium- and high-modulus aerospace-grade materials, and the reuse of recycled carbon fiber.

24K carbon fiber, with its core advantages of high strength, high modulus, lightweight, and corrosion resistance, continues to see strong demand in various fields, including aerospace secondary load-bearing structures, lightweight automotive components, wind turbine blades, building reinforcement materials, high-end sporting goods, structural components for low-altitude economic drones, and high-pressure gas cylinders for hydrogen energy storage and transportation. The market is showing steady growth, with emerging fields such as new energy vehicles and the low-altitude economy becoming important growth engines. The industry's competitive landscape is globalized, with international giants such as Toray and Hesse dominating the high-end market due to their long-term technological accumulation and quality advantages. Chinese domestic companies are gradually rising through independent research and development, having built a product system covering different performance levels, and the process of domestic substitution continues to accelerate. Technological development focuses on three major directions: high performance, cost optimization, and green technology. The development of high-strength, high-modulus products, the improvement of production processes, and the development of recycled carbon fiber technology are progressing in parallel. Meanwhile, multi-material composite applications and customized product

development are becoming trends, further expanding the application boundaries. Policy support for energy transition, intelligent manufacturing, and localization provides strong support for the industry. Coupled with the downstream demand for lightweight, high-performance, and environmentally friendly materials, companies with core technology R&D capabilities, stable production capacity, and full-chain service capabilities will continue to have a competitive advantage. However, raw material cost control, large-scale production quality control, and breakthroughs in high-end application scenarios remain key issues for the industry's development.

LP Information, Inc. (LPI) ' newest research report, the "24K Carbon Fiber Industry Forecast" looks at past sales and reviews total world 24K Carbon Fiber sales in 2025, providing a comprehensive analysis by region and market sector of projected 24K Carbon Fiber sales for 2026 through 2032. With 24K Carbon Fiber sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 24K Carbon Fiber industry.

This Insight Report provides a comprehensive analysis of the global 24K Carbon Fiber landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 24K Carbon Fiber portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 24K Carbon Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 24K Carbon Fiber and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 24K Carbon Fiber.

This report presents a comprehensive overview, market shares, and growth opportunities of 24K Carbon Fiber market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Polyacrylonitrile (Pan) Based

Pitch-Based

Other

Segmentation by Strength and Modulus:

General Purpose

High Strength

High Modulus

Segmentation by Manufacturing Conditions:

Manufacturing Conditions: Carbon Fiber

Manufacturing Conditions: Graphite Fiber

Manufacturing Conditions: Activated Carbon Fiber

Manufacturing Conditions: Vapor-Grown Carbon Fiber

Segmentation by Application:

Automotives

Ship

Wind Energy

Machinery

Construction

Consumer Electronics

Aerospace and Military

Scientific Research

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hexcel

Toray Composite Materials

Mitsubishi Chemical

Teijin Carbon

Hyosung Advancedmaterials

Taekwang Industrial

SGL Carbon

Foemosa M

Sinopec

Zhongfu Shenying Carbon Fiber

Formosa Plastic Group

Jilin Chemical Fiber Group

Xinjiang Longju New Materials

Shanxi Gangke Carbon Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global 24K Carbon Fiber market?

What factors are driving 24K Carbon Fiber market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 24K Carbon Fiber market opportunities vary by end market size?

How does 24K Carbon Fiber break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global 24K Carbon Fiber Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for 24K Carbon Fiber by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for 24K Carbon Fiber by Country/Region, 2021, 2025 & 2032

2.2 24K Carbon Fiber Segment by Type

- 2.2.1 Polyacrylonitrile (Pan) Based
- 2.2.2 Pitch-Based
- 2.2.3 Other
- 2.2.4 24K Carbon Fiber Sales by Type
 - 2.2.4.1 Global 24K Carbon Fiber Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global 24K Carbon Fiber Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global 24K Carbon Fiber Sale Price by Type (2021-2026)

2.3 24K Carbon Fiber Segment by Strength and Modulus

- 2.3.1 General Purpose
- 2.3.2 High Strength
- 2.3.3 High Modulus
- 2.3.4 24K Carbon Fiber Sales by Strength and Modulus
 - 2.3.4.1 Global 24K Carbon Fiber Sales Market Share by Strength and Modulus (2021-2026)
 - 2.3.4.2 Global 24K Carbon Fiber Revenue and Market Share by Strength and Modulus (2021-2026)
 - 2.3.4.3 Global 24K Carbon Fiber Sale Price by Strength and Modulus (2021-2026)

2.4 24K Carbon Fiber Segment by Manufacturing Conditions

2.4.1 Manufacturing Conditions: Carbon Fiber

2.4.2 Manufacturing Conditions: Graphite Fiber

2.4.3 Manufacturing Conditions: Activated Carbon Fiber

2.4.4 Manufacturing Conditions: Vapor-Grown Carbon Fiber

2.4.5 24K Carbon Fiber Sales by Manufacturing Conditions

2.4.5.1 Global 24K Carbon Fiber Sales Market Share by Manufacturing Conditions (2021-2026)

2.4.5.2 Global 24K Carbon Fiber Revenue and Market Share by Manufacturing Conditions (2021-2026)

2.4.5.3 Global 24K Carbon Fiber Sale Price by Manufacturing Conditions (2021-2026)

2.5 24K Carbon Fiber Segment by Application

2.5.1 Automotives

2.5.2 Ship

2.5.3 Wind Energy

2.5.4 Machinery

2.5.5 Construction

2.5.6 Consumer Electronics

2.5.7 Aerospace and Military

2.5.8 Scientific Research

2.5.9 Others

2.5.10 24K Carbon Fiber Sales by Application

2.5.10.1 Global 24K Carbon Fiber Sale Market Share by Application (2021-2026)

2.5.10.2 Global 24K Carbon Fiber Revenue and Market Share by Application (2021-2026)

2.5.10.3 Global 24K Carbon Fiber Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global 24K Carbon Fiber Breakdown Data by Company

3.1.1 Global 24K Carbon Fiber Annual Sales by Company (2021-2026)

3.1.2 Global 24K Carbon Fiber Sales Market Share by Company (2021-2026)

3.2 Global 24K Carbon Fiber Annual Revenue by Company (2021-2026)

3.2.1 Global 24K Carbon Fiber Revenue by Company (2021-2026)

3.2.2 Global 24K Carbon Fiber Revenue Market Share by Company (2021-2026)

3.3 Global 24K Carbon Fiber Sale Price by Company

3.4 Key Manufacturers 24K Carbon Fiber Producing Area Distribution, Sales Area, Product Type

- 3.4.1 Key Manufacturers 24K Carbon Fiber Product Location Distribution
- 3.4.2 Players 24K Carbon Fiber Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR 24K CARBON FIBER BY GEOGRAPHIC REGION

- 4.1 World Historic 24K Carbon Fiber Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global 24K Carbon Fiber Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global 24K Carbon Fiber Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic 24K Carbon Fiber Market Size by Country/Region (2021-2026)
 - 4.2.1 Global 24K Carbon Fiber Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global 24K Carbon Fiber Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas 24K Carbon Fiber Sales Growth
- 4.4 APAC 24K Carbon Fiber Sales Growth
- 4.5 Europe 24K Carbon Fiber Sales Growth
- 4.6 Middle East & Africa 24K Carbon Fiber Sales Growth

5 AMERICAS

- 5.1 Americas 24K Carbon Fiber Sales by Country
 - 5.1.1 Americas 24K Carbon Fiber Sales by Country (2021-2026)
 - 5.1.2 Americas 24K Carbon Fiber Revenue by Country (2021-2026)
- 5.2 Americas 24K Carbon Fiber Sales by Type (2021-2026)
- 5.3 Americas 24K Carbon Fiber Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC 24K Carbon Fiber Sales by Region
 - 6.1.1 APAC 24K Carbon Fiber Sales by Region (2021-2026)
 - 6.1.2 APAC 24K Carbon Fiber Revenue by Region (2021-2026)

- 6.2 APAC 24K Carbon Fiber Sales by Type (2021-2026)
- 6.3 APAC 24K Carbon Fiber Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe 24K Carbon Fiber by Country
 - 7.1.1 Europe 24K Carbon Fiber Sales by Country (2021-2026)
 - 7.1.2 Europe 24K Carbon Fiber Revenue by Country (2021-2026)
- 7.2 Europe 24K Carbon Fiber Sales by Type (2021-2026)
- 7.3 Europe 24K Carbon Fiber Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa 24K Carbon Fiber by Country
 - 8.1.1 Middle East & Africa 24K Carbon Fiber Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa 24K Carbon Fiber Revenue by Country (2021-2026)
- 8.2 Middle East & Africa 24K Carbon Fiber Sales by Type (2021-2026)
- 8.3 Middle East & Africa 24K Carbon Fiber Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of 24K Carbon Fiber

10.3 Manufacturing Process Analysis of 24K Carbon Fiber

10.4 Industry Chain Structure of 24K Carbon Fiber

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 24K Carbon Fiber Distributors

11.3 24K Carbon Fiber Customer

12 WORLD FORECAST REVIEW FOR 24K CARBON FIBER BY GEOGRAPHIC REGION

12.1 Global 24K Carbon Fiber Market Size Forecast by Region

12.1.1 Global 24K Carbon Fiber Forecast by Region (2027-2032)

12.1.2 Global 24K Carbon Fiber Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global 24K Carbon Fiber Forecast by Type (2027-2032)

12.7 Global 24K Carbon Fiber Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Hexcel

13.1.1 Hexcel Company Information

13.1.2 Hexcel 24K Carbon Fiber Product Portfolios and Specifications

13.1.3 Hexcel 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Hexcel Main Business Overview

13.1.5 Hexcel Latest Developments

13.2 Toray Composite Materials

13.2.1 Toray Composite Materials Company Information

13.2.2 Toray Composite Materials 24K Carbon Fiber Product Portfolios and Specifications

13.2.3 Toray Composite Materials 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Toray Composite Materials Main Business Overview

13.2.5 Toray Composite Materials Latest Developments

13.3 Mitsubishi Chemical

13.3.1 Mitsubishi Chemical Company Information

13.3.2 Mitsubishi Chemical 24K Carbon Fiber Product Portfolios and Specifications

13.3.3 Mitsubishi Chemical 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Mitsubishi Chemical Main Business Overview

13.3.5 Mitsubishi Chemical Latest Developments

13.4 Teijin Carbon

13.4.1 Teijin Carbon Company Information

13.4.2 Teijin Carbon 24K Carbon Fiber Product Portfolios and Specifications

13.4.3 Teijin Carbon 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Teijin Carbon Main Business Overview

13.4.5 Teijin Carbon Latest Developments

13.5 Hyosung Advancedmaterials

13.5.1 Hyosung Advancedmaterials Company Information

13.5.2 Hyosung Advancedmaterials 24K Carbon Fiber Product Portfolios and Specifications

13.5.3 Hyosung Advancedmaterials 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Hyosung Advancedmaterials Main Business Overview

13.5.5 Hyosung Advancedmaterials Latest Developments

13.6 Taekwang Industrial

13.6.1 Taekwang Industrial Company Information

13.6.2 Taekwang Industrial 24K Carbon Fiber Product Portfolios and Specifications

13.6.3 Taekwang Industrial 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Taekwang Industrial Main Business Overview

13.6.5 Taekwang Industrial Latest Developments

13.7 SGL Carbon

13.7.1 SGL Carbon Company Information

- 13.7.2 SGL Carbon 24K Carbon Fiber Product Portfolios and Specifications
- 13.7.3 SGL Carbon 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.7.4 SGL Carbon Main Business Overview
- 13.7.5 SGL Carbon Latest Developments
- 13.8 Foemosa M
 - 13.8.1 Foemosa M Company Information
 - 13.8.2 Foemosa M 24K Carbon Fiber Product Portfolios and Specifications
 - 13.8.3 Foemosa M 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Foemosa M Main Business Overview
 - 13.8.5 Foemosa M Latest Developments
- 13.9 Sinopec
 - 13.9.1 Sinopec Company Information
 - 13.9.2 Sinopec 24K Carbon Fiber Product Portfolios and Specifications
 - 13.9.3 Sinopec 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Sinopec Main Business Overview
 - 13.9.5 Sinopec Latest Developments
- 13.10 Zhongfu Shenying Carbon Fiber
 - 13.10.1 Zhongfu Shenying Carbon Fiber Company Information
 - 13.10.2 Zhongfu Shenying Carbon Fiber 24K Carbon Fiber Product Portfolios and Specifications
 - 13.10.3 Zhongfu Shenying Carbon Fiber 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Zhongfu Shenying Carbon Fiber Main Business Overview
 - 13.10.5 Zhongfu Shenying Carbon Fiber Latest Developments
- 13.11 Formosa Plastic Group
 - 13.11.1 Formosa Plastic Group Company Information
 - 13.11.2 Formosa Plastic Group 24K Carbon Fiber Product Portfolios and Specifications
 - 13.11.3 Formosa Plastic Group 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Formosa Plastic Group Main Business Overview
 - 13.11.5 Formosa Plastic Group Latest Developments
- 13.12 Jilin Chemical Fiber Group
 - 13.12.1 Jilin Chemical Fiber Group Company Information
 - 13.12.2 Jilin Chemical Fiber Group 24K Carbon Fiber Product Portfolios and Specifications

13.12.3 Jilin Chemical Fiber Group 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Jilin Chemical Fiber Group Main Business Overview

13.12.5 Jilin Chemical Fiber Group Latest Developments

13.13 Xinjiang Longju New Materials

13.13.1 Xinjiang Longju New Materials Company Information

13.13.2 Xinjiang Longju New Materials 24K Carbon Fiber Product Portfolios and Specifications

13.13.3 Xinjiang Longju New Materials 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Xinjiang Longju New Materials Main Business Overview

13.13.5 Xinjiang Longju New Materials Latest Developments

13.14 Shanxi Gangke Carbon Materials

13.14.1 Shanxi Gangke Carbon Materials Company Information

13.14.2 Shanxi Gangke Carbon Materials 24K Carbon Fiber Product Portfolios and Specifications

13.14.3 Shanxi Gangke Carbon Materials 24K Carbon Fiber Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Shanxi Gangke Carbon Materials Main Business Overview

13.14.5 Shanxi Gangke Carbon Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. 24K Carbon Fiber Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. 24K Carbon Fiber Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Polyacrylonitrile (Pan) Based

Table 4. Major Players of Pitch-Based

Table 5. Major Players of Other

Table 6. Global 24K Carbon Fiber Sales by Type (2021-2026) & (Tons)

Table 7. Global 24K Carbon Fiber Sales Market Share by Type (2021-2026)

Table 8. Global 24K Carbon Fiber Revenue by Type (2021-2026) & (\$ million)

Table 9. Global 24K Carbon Fiber Revenue Market Share by Type (2021-2026)

Table 10. Global 24K Carbon Fiber Sale Price by Type (2021-2026) & (US\$/Ton)

Table 11. Major Players of General Purpose

Table 12. Major Players of High Strength

Table 13. Major Players of High Modulus

Table 14. Global 24K Carbon Fiber Sales by Strength and Modulus (2021-2026) & (Tons)

Table 15. Global 24K Carbon Fiber Sales Market Share by Strength and Modulus (2021-2026)

Table 16. Global 24K Carbon Fiber Revenue by Strength and Modulus (2021-2026) & (\$ million)

Table 17. Global 24K Carbon Fiber Revenue Market Share by Strength and Modulus (2021-2026)

Table 18. Global 24K Carbon Fiber Sale Price by Strength and Modulus (2021-2026) & (US\$/Ton)

Table 19. Major Players of Manufacturing Conditions: Carbon Fiber

Table 20. Major Players of Manufacturing Conditions: Graphite Fiber

Table 21. Major Players of Manufacturing Conditions: Activated Carbon Fiber

Table 22. Major Players of Manufacturing Conditions: Vapor-Grown Carbon Fiber

Table 23. Global 24K Carbon Fiber Sales by Manufacturing Conditions (2021-2026) & (Tons)

Table 24. Global 24K Carbon Fiber Sales Market Share by Manufacturing Conditions (2021-2026)

Table 25. Global 24K Carbon Fiber Revenue by Manufacturing Conditions (2021-2026) & (\$ million)

Table 26. Global 24K Carbon Fiber Revenue Market Share by Manufacturing Conditions (2021-2026)
Table 27. Global 24K Carbon Fiber Sale Price by Manufacturing Conditions (2021-2026) & (US\$/Ton)
Table 28. Global 24K Carbon Fiber Sale by Application (2021-2026) & (Tons)
Table 29. Global 24K Carbon Fiber Sale Market Share by Application (2021-2026)
Table 30. Global 24K Carbon Fiber Revenue by Application (2021-2026) & (\$ million)
Table 31. Global 24K Carbon Fiber Revenue Market Share by Application (2021-2026)
Table 32. Global 24K Carbon Fiber Sale Price by Application (2021-2026) & (US\$/Ton)
Table 33. Global 24K Carbon Fiber Sales by Company (2021-2026) & (Tons)
Table 34. Global 24K Carbon Fiber Sales Market Share by Company (2021-2026)
Table 35. Global 24K Carbon Fiber Revenue by Company (2021-2026) & (\$ millions)
Table 36. Global 24K Carbon Fiber Revenue Market Share by Company (2021-2026)
Table 37. Global 24K Carbon Fiber Sale Price by Company (2021-2026) & (US\$/Ton)
Table 38. Key Manufacturers 24K Carbon Fiber Producing Area Distribution and Sales Area
Table 39. Players 24K Carbon Fiber Products Offered
Table 40. 24K Carbon Fiber Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 41. New Products and Potential Entrants
Table 42. Market M&A Activity & Strategy
Table 43. Global 24K Carbon Fiber Sales by Geographic Region (2021-2026) & (Tons)
Table 44. Global 24K Carbon Fiber Sales Market Share Geographic Region (2021-2026)
Table 45. Global 24K Carbon Fiber Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 46. Global 24K Carbon Fiber Revenue Market Share by Geographic Region (2021-2026)
Table 47. Global 24K Carbon Fiber Sales by Country/Region (2021-2026) & (Tons)
Table 48. Global 24K Carbon Fiber Sales Market Share by Country/Region (2021-2026)
Table 49. Global 24K Carbon Fiber Revenue by Country/Region (2021-2026) & (\$ millions)
Table 50. Global 24K Carbon Fiber Revenue Market Share by Country/Region (2021-2026)
Table 51. Americas 24K Carbon Fiber Sales by Country (2021-2026) & (Tons)
Table 52. Americas 24K Carbon Fiber Sales Market Share by Country (2021-2026)
Table 53. Americas 24K Carbon Fiber Revenue by Country (2021-2026) & (\$ millions)
Table 54. Americas 24K Carbon Fiber Sales by Type (2021-2026) & (Tons)
Table 55. Americas 24K Carbon Fiber Sales by Application (2021-2026) & (Tons)
Table 56. APAC 24K Carbon Fiber Sales by Region (2021-2026) & (Tons)

Table 57. APAC 24K Carbon Fiber Sales Market Share by Region (2021-2026)
Table 58. APAC 24K Carbon Fiber Revenue by Region (2021-2026) & (\$ millions)
Table 59. APAC 24K Carbon Fiber Sales by Type (2021-2026) & (Tons)
Table 60. APAC 24K Carbon Fiber Sales by Application (2021-2026) & (Tons)
Table 61. Europe 24K Carbon Fiber Sales by Country (2021-2026) & (Tons)
Table 62. Europe 24K Carbon Fiber Revenue by Country (2021-2026) & (\$ millions)
Table 63. Europe 24K Carbon Fiber Sales by Type (2021-2026) & (Tons)
Table 64. Europe 24K Carbon Fiber Sales by Application (2021-2026) & (Tons)
Table 65. Middle East & Africa 24K Carbon Fiber Sales by Country (2021-2026) & (Tons)
Table 66. Middle East & Africa 24K Carbon Fiber Revenue Market Share by Country (2021-2026)
Table 67. Middle East & Africa 24K Carbon Fiber Sales by Type (2021-2026) & (Tons)
Table 68. Middle East & Africa 24K Carbon Fiber Sales by Application (2021-2026) & (Tons)
Table 69. Key Market Drivers & Growth Opportunities of 24K Carbon Fiber
Table 70. Key Market Challenges & Risks of 24K Carbon Fiber
Table 71. Key Industry Trends of 24K Carbon Fiber
Table 72. 24K Carbon Fiber Raw Material
Table 73. Key Suppliers of Raw Materials
Table 74. 24K Carbon Fiber Distributors List
Table 75. 24K Carbon Fiber Customer List
Table 76. Global 24K Carbon Fiber Sales Forecast by Region (2027-2032) & (Tons)
Table 77. Global 24K Carbon Fiber Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Americas 24K Carbon Fiber Sales Forecast by Country (2027-2032) & (Tons)
Table 79. Americas 24K Carbon Fiber Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. APAC 24K Carbon Fiber Sales Forecast by Region (2027-2032) & (Tons)
Table 81. APAC 24K Carbon Fiber Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Europe 24K Carbon Fiber Sales Forecast by Country (2027-2032) & (Tons)
Table 83. Europe 24K Carbon Fiber Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Middle East & Africa 24K Carbon Fiber Sales Forecast by Country (2027-2032) & (Tons)
Table 85. Middle East & Africa 24K Carbon Fiber Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Global 24K Carbon Fiber Sales Forecast by Type (2027-2032) & (Tons)

Table 87. Global 24K Carbon Fiber Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global 24K Carbon Fiber Sales Forecast by Application (2027-2032) & (Tons)

Table 89. Global 24K Carbon Fiber Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Hexcel Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 91. Hexcel 24K Carbon Fiber Product Portfolios and Specifications

Table 92. Hexcel 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 93. Hexcel Main Business

Table 94. Hexcel Latest Developments

Table 95. Toray Composite Materials Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 96. Toray Composite Materials 24K Carbon Fiber Product Portfolios and Specifications

Table 97. Toray Composite Materials 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 98. Toray Composite Materials Main Business

Table 99. Toray Composite Materials Latest Developments

Table 100. Mitsubishi Chemical Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 101. Mitsubishi Chemical 24K Carbon Fiber Product Portfolios and Specifications

Table 102. Mitsubishi Chemical 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 103. Mitsubishi Chemical Main Business

Table 104. Mitsubishi Chemical Latest Developments

Table 105. Teijin Carbon Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 106. Teijin Carbon 24K Carbon Fiber Product Portfolios and Specifications

Table 107. Teijin Carbon 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 108. Teijin Carbon Main Business

Table 109. Teijin Carbon Latest Developments

Table 110. Hyosung Advancedmaterials Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 111. Hyosung Advancedmaterials 24K Carbon Fiber Product Portfolios and Specifications

Table 112. Hyosung Advancedmaterials 24K Carbon Fiber Sales (Tons), Revenue (\$

Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 113. Hyosung Advancedmaterials Main Business

Table 114. Hyosung Advancedmaterials Latest Developments

Table 115. Taekwang Industrial Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 116. Taekwang Industrial 24K Carbon Fiber Product Portfolios and Specifications

Table 117. Taekwang Industrial 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 118. Taekwang Industrial Main Business

Table 119. Taekwang Industrial Latest Developments

Table 120. SGL Carbon Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 121. SGL Carbon 24K Carbon Fiber Product Portfolios and Specifications

Table 122. SGL Carbon 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 123. SGL Carbon Main Business

Table 124. SGL Carbon Latest Developments

Table 125. Foemosa M Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 126. Foemosa M 24K Carbon Fiber Product Portfolios and Specifications

Table 127. Foemosa M 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 128. Foemosa M Main Business

Table 129. Foemosa M Latest Developments

Table 130. Sinopec Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 131. Sinopec 24K Carbon Fiber Product Portfolios and Specifications

Table 132. Sinopec 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 133. Sinopec Main Business

Table 134. Sinopec Latest Developments

Table 135. Zhongfu Shenying Carbon Fiber Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 136. Zhongfu Shenying Carbon Fiber 24K Carbon Fiber Product Portfolios and Specifications

Table 137. Zhongfu Shenying Carbon Fiber 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 138. Zhongfu Shenying Carbon Fiber Main Business

Table 139. Zhongfu Shenying Carbon Fiber Latest Developments

Table 140. Formosa Plastic Group Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 141. Formosa Plastic Group 24K Carbon Fiber Product Portfolios and Specifications

Table 142. Formosa Plastic Group 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 143. Formosa Plastic Group Main Business

Table 144. Formosa Plastic Group Latest Developments

Table 145. Jilin Chemical Fiber Group Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 146. Jilin Chemical Fiber Group 24K Carbon Fiber Product Portfolios and Specifications

Table 147. Jilin Chemical Fiber Group 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 148. Jilin Chemical Fiber Group Main Business

Table 149. Jilin Chemical Fiber Group Latest Developments

Table 150. Xinjiang Longju New Materials Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 151. Xinjiang Longju New Materials 24K Carbon Fiber Product Portfolios and Specifications

Table 152. Xinjiang Longju New Materials 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 153. Xinjiang Longju New Materials Main Business

Table 154. Xinjiang Longju New Materials Latest Developments

Table 155. Shanxi Gangke Carbon Materials Basic Information, 24K Carbon Fiber Manufacturing Base, Sales Area and Its Competitors

Table 156. Shanxi Gangke Carbon Materials 24K Carbon Fiber Product Portfolios and Specifications

Table 157. Shanxi Gangke Carbon Materials 24K Carbon Fiber Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 158. Shanxi Gangke Carbon Materials Main Business

Table 159. Shanxi Gangke Carbon Materials Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of 24K Carbon Fiber

Figure 2. 24K Carbon Fiber Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global 24K Carbon Fiber Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global 24K Carbon Fiber Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. 24K Carbon Fiber Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. 24K Carbon Fiber Sales Market Share by Country/Region (2025)

Figure 10. 24K Carbon Fiber Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Polyacrylonitrile (Pan) Based

Figure 12. Product Picture of Pitch-Based

Figure 13. Product Picture of Other

Figure 14. Global 24K Carbon Fiber Sales Market Share by Type in 2026

Figure 15. Global 24K Carbon Fiber Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of General Purpose

Figure 17. Product Picture of High Strength

Figure 18. Product Picture of High Modulus

Figure 19. Global 24K Carbon Fiber Sales Market Share by Strength and Modulus in 2026

Figure 20. Global 24K Carbon Fiber Revenue Market Share by Strength and Modulus (2021-2026)

Figure 21. Product Picture of Manufacturing Conditions: Carbon Fiber

Figure 22. Product Picture of Manufacturing Conditions: Graphite Fiber

Figure 23. Product Picture of Manufacturing Conditions: Activated Carbon Fiber

Figure 24. Product Picture of Manufacturing Conditions: Vapor-Grown Carbon Fiber

Figure 25. Global 24K Carbon Fiber Sales Market Share by Manufacturing Conditions in 2026

Figure 26. Global 24K Carbon Fiber Revenue Market Share by Manufacturing Conditions (2021-2026)

Figure 27. 24K Carbon Fiber Consumed in Automotives

Figure 28. Global 24K Carbon Fiber Market: Automotives (2021-2026) & (Tons)

Figure 29. 24K Carbon Fiber Consumed in Ship

- Figure 30. Global 24K Carbon Fiber Market: Ship (2021-2026) & (Tons)
- Figure 31. 24K Carbon Fiber Consumed in Wind Energy
- Figure 32. Global 24K Carbon Fiber Market: Wind Energy (2021-2026) & (Tons)
- Figure 33. 24K Carbon Fiber Consumed in Machinery
- Figure 34. Global 24K Carbon Fiber Market: Machinery (2021-2026) & (Tons)
- Figure 35. 24K Carbon Fiber Consumed in Construction
- Figure 36. Global 24K Carbon Fiber Market: Construction (2021-2026) & (Tons)
- Figure 37. 24K Carbon Fiber Consumed in Consumer Electronics
- Figure 38. Global 24K Carbon Fiber Market: Consumer Electronics (2021-2026) & (Tons)
- Figure 39. 24K Carbon Fiber Consumed in Aerospace and Military
- Figure 40. Global 24K Carbon Fiber Market: Aerospace and Military (2021-2026) & (Tons)
- Figure 41. 24K Carbon Fiber Consumed in Scientific Research
- Figure 42. Global 24K Carbon Fiber Market: Scientific Research (2021-2026) & (Tons)
- Figure 43. 24K Carbon Fiber Consumed in Others
- Figure 44. Global 24K Carbon Fiber Market: Others (2021-2026) & (Tons)
- Figure 45. Global 24K Carbon Fiber Sale Market Share by Application (2025)
- Figure 46. Global 24K Carbon Fiber Revenue Market Share by Application in 2026
- Figure 47. 24K Carbon Fiber Sales by Company in 2026 (Tons)
- Figure 48. Global 24K Carbon Fiber Sales Market Share by Company in 2026
- Figure 49. 24K Carbon Fiber Revenue by Company in 2026 (\$ millions)
- Figure 50. Global 24K Carbon Fiber Revenue Market Share by Company in 2026
- Figure 51. Global 24K Carbon Fiber Sales Market Share by Geographic Region (2021-2026)
- Figure 52. Global 24K Carbon Fiber Revenue Market Share by Geographic Region in 2026
- Figure 53. Americas 24K Carbon Fiber Sales 2021-2026 (Tons)
- Figure 54. Americas 24K Carbon Fiber Revenue 2021-2026 (\$ millions)
- Figure 55. APAC 24K Carbon Fiber Sales 2021-2026 (Tons)
- Figure 56. APAC 24K Carbon Fiber Revenue 2021-2026 (\$ millions)
- Figure 57. Europe 24K Carbon Fiber Sales 2021-2026 (Tons)
- Figure 58. Europe 24K Carbon Fiber Revenue 2021-2026 (\$ millions)
- Figure 59. Middle East & Africa 24K Carbon Fiber Sales 2021-2026 (Tons)
- Figure 60. Middle East & Africa 24K Carbon Fiber Revenue 2021-2026 (\$ millions)
- Figure 61. Americas 24K Carbon Fiber Sales Market Share by Country in 2026
- Figure 62. Americas 24K Carbon Fiber Revenue Market Share by Country (2021-2026)
- Figure 63. Americas 24K Carbon Fiber Sales Market Share by Type (2021-2026)
- Figure 64. Americas 24K Carbon Fiber Sales Market Share by Application (2021-2026)

- Figure 65. United States 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Canada 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Mexico 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Brazil 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 69. APAC 24K Carbon Fiber Sales Market Share by Region in 2026
- Figure 70. APAC 24K Carbon Fiber Revenue Market Share by Region (2021-2026)
- Figure 71. APAC 24K Carbon Fiber Sales Market Share by Type (2021-2026)
- Figure 72. APAC 24K Carbon Fiber Sales Market Share by Application (2021-2026)
- Figure 73. China 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Japan 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 75. South Korea 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Southeast Asia 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 77. India 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Australia 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 79. China Taiwan 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Europe 24K Carbon Fiber Sales Market Share by Country in 2026
- Figure 81. Europe 24K Carbon Fiber Revenue Market Share by Country (2021-2026)
- Figure 82. Europe 24K Carbon Fiber Sales Market Share by Type (2021-2026)
- Figure 83. Europe 24K Carbon Fiber Sales Market Share by Application (2021-2026)
- Figure 84. Germany 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 85. France 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 86. UK 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Italy 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 88. Russia 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Middle East & Africa 24K Carbon Fiber Sales Market Share by Country (2021-2026)
- Figure 90. Middle East & Africa 24K Carbon Fiber Sales Market Share by Type (2021-2026)
- Figure 91. Middle East & Africa 24K Carbon Fiber Sales Market Share by Application (2021-2026)
- Figure 92. Egypt 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 93. South Africa 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 94. Israel 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 95. Turkey 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 96. GCC Countries 24K Carbon Fiber Revenue Growth 2021-2026 (\$ millions)
- Figure 97. Manufacturing Cost Structure Analysis of 24K Carbon Fiber in 2026
- Figure 98. Manufacturing Process Analysis of 24K Carbon Fiber
- Figure 99. Industry Chain Structure of 24K Carbon Fiber
- Figure 100. Channels of Distribution

Figure 101. Global 24K Carbon Fiber Sales Market Forecast by Region (2027-2032)

Figure 102. Global 24K Carbon Fiber Revenue Market Share Forecast by Region (2027-2032)

Figure 103. Global 24K Carbon Fiber Sales Market Share Forecast by Type (2027-2032)

Figure 104. Global 24K Carbon Fiber Revenue Market Share Forecast by Type (2027-2032)

Figure 105. Global 24K Carbon Fiber Sales Market Share Forecast by Application (2027-2032)

Figure 106. Global 24K Carbon Fiber Revenue Market Share Forecast by Application (2027-2032)

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