

Global High Performance Carbon Fibre Materials Market Research Report 2026(Status and Outlook)

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Abstracts

Carbon fiber is an inorganic fiber with a carbon content of more than 95%. It is made of different raw materials through polymerization, spinning, oxidation, and high-temperature carbonization. High-performance carbon fiber material is an advanced composite material, mainly composed of carbon fibers embedded in a matrix material (usually a polymer) to form a composite material. According to the type of raw materials, carbon fibers mainly include three types: polyacrylonitrile-based carbon fibers, viscose-based carbon fibers, and asphalt-based carbon fibers. Among them, polyacrylonitrile-based carbon fibers, which use petrochemical product acrylonitrile as the main raw material, account for more than 90% of the world's total carbon fiber production and are the main source of high-performance carbon fibers.

The global High Performance Carbon Fibre Materials market size was estimated at USD 5146.25 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.85% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global High Performance Carbon Fibre Materials market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global High Performance Carbon Fibre Materials market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the High Performance Carbon Fibre Materials market.

Global High Performance Carbon Fibre Materials Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Toray

Teijin

Mitsubishi Chemical

Hexcel

Solvay

SGL Carbon

DowAksa

Hyosung

Taekwang Industrial

Formosa Plastics

Jiangsu Hengshen

Zhongfu Shenying

Weihai Guangwei

Market Segmentation (by Type)

PAN-Based Carbon Fibers
Pitch-Based Carbon Fibers
Rayon-Based Carbon Fibers

Market Segmentation (by Application)

Aerospace
Automotive
Sporting Goods
Energy Equipment
Marine
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the High Performance Carbon Fibre Materials Market

Overview of the regional outlook of the High Performance Carbon Fibre Materials Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the High Performance Carbon Fibre Materials Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of High Performance Carbon Fibre Materials, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well

as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of High Performance Carbon Fibre Materials

1.2 Key Market Segments

1.2.1 High Performance Carbon Fibre Materials Segment by Type

1.2.2 High Performance Carbon Fibre Materials Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global High Performance Carbon Fibre Materials Market Size (M USD)

Estimates and Forecasts (2020-2035)

2.1.2 Global High Performance Carbon Fibre Materials Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global High Performance Carbon Fibre Materials Product Life Cycle

3.3 Global High Performance Carbon Fibre Materials Sales by Manufacturers (2020-2025)

3.4 Global High Performance Carbon Fibre Materials Revenue Market Share by Manufacturers (2020-2025)

3.5 High Performance Carbon Fibre Materials Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global High Performance Carbon Fibre Materials Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 High Performance Carbon Fibre Materials Market Competitive Situation and Trends

3.8.1 High Performance Carbon Fibre Materials Market Concentration Rate

3.8.2 Global 5 and 10 Largest High Performance Carbon Fibre Materials Players

Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 HIGH PERFORMANCE CARBON FIBRE MATERIALS INDUSTRY CHAIN ANALYSIS

4.1 High Performance Carbon Fibre Materials Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global High Performance Carbon Fibre Materials Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to High Performance Carbon Fibre Materials Market

5.7 ESG Ratings of Leading Companies

6 HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET SEGMENTATION

BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global High Performance Carbon Fibre Materials Sales Market Share by Type (2020-2025)
- 6.3 Global High Performance Carbon Fibre Materials Market Size by Type (2020-2025)
- 6.4 Global High Performance Carbon Fibre Materials Price by Type (2020-2025)

7 HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global High Performance Carbon Fibre Materials Market Sales by Application (2020-2025)
- 7.3 Global High Performance Carbon Fibre Materials Market Size (M USD) by Application (2020-2025)
- 7.4 Global High Performance Carbon Fibre Materials Sales Growth Rate by Application (2020-2025)

8 HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET SALES BY REGION

- 8.1 Global High Performance Carbon Fibre Materials Sales by Region
 - 8.1.1 Global High Performance Carbon Fibre Materials Sales by Region
 - 8.1.2 Global High Performance Carbon Fibre Materials Sales Market Share by Region
- 8.2 Global High Performance Carbon Fibre Materials Market Size by Region
 - 8.2.1 Global High Performance Carbon Fibre Materials Market Size by Region
 - 8.2.2 Global High Performance Carbon Fibre Materials Market Size by Region
- 8.3 North America
 - 8.3.1 North America High Performance Carbon Fibre Materials Sales by Country
 - 8.3.2 North America High Performance Carbon Fibre Materials Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe High Performance Carbon Fibre Materials Sales by Country
 - 8.4.2 Europe High Performance Carbon Fibre Materials Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific High Performance Carbon Fibre Materials Sales by Region

8.5.2 Asia Pacific High Performance Carbon Fibre Materials Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America High Performance Carbon Fibre Materials Sales by Country

8.6.2 South America High Performance Carbon Fibre Materials Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa High Performance Carbon Fibre Materials Sales by Region

8.7.2 Middle East and Africa High Performance Carbon Fibre Materials Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET PRODUCTION BY REGION

9.1 Global Production of High Performance Carbon Fibre Materials by Region(2020-2025)

9.2 Global High Performance Carbon Fibre Materials Revenue Market Share by Region (2020-2025)

9.3 Global High Performance Carbon Fibre Materials Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America High Performance Carbon Fibre Materials Production

9.4.1 North America High Performance Carbon Fibre Materials Production Growth Rate (2020-2025)

9.4.2 North America High Performance Carbon Fibre Materials Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe High Performance Carbon Fibre Materials Production

9.5.1 Europe High Performance Carbon Fibre Materials Production Growth Rate (2020-2025)

9.5.2 Europe High Performance Carbon Fibre Materials Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan High Performance Carbon Fibre Materials Production (2020-2025)

9.6.1 Japan High Performance Carbon Fibre Materials Production Growth Rate (2020-2025)

9.6.2 Japan High Performance Carbon Fibre Materials Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China High Performance Carbon Fibre Materials Production (2020-2025)

9.7.1 China High Performance Carbon Fibre Materials Production Growth Rate (2020-2025)

9.7.2 China High Performance Carbon Fibre Materials Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Toray

10.1.1 Toray Basic Information

10.1.2 Toray High Performance Carbon Fibre Materials Product Overview

10.1.3 Toray High Performance Carbon Fibre Materials Product Market Performance

10.1.4 Toray Business Overview

10.1.5 Toray SWOT Analysis

10.1.6 Toray Recent Developments

10.2 Teijin

10.2.1 Teijin Basic Information

10.2.2 Teijin High Performance Carbon Fibre Materials Product Overview

10.2.3 Teijin High Performance Carbon Fibre Materials Product Market Performance

10.2.4 Teijin Business Overview

10.2.5 Teijin SWOT Analysis

10.2.6 Teijin Recent Developments

10.3 Mitsubishi Chemical

10.3.1 Mitsubishi Chemical Basic Information

10.3.2 Mitsubishi Chemical High Performance Carbon Fibre Materials Product

Overview

10.3.3 Mitsubishi Chemical High Performance Carbon Fibre Materials Product Market Performance

10.3.4 Mitsubishi Chemical Business Overview

10.3.5 Mitsubishi Chemical SWOT Analysis

10.3.6 Mitsubishi Chemical Recent Developments

10.4 Hexcel

10.4.1 Hexcel Basic Information

10.4.2 Hexcel High Performance Carbon Fibre Materials Product Overview

10.4.3 Hexcel High Performance Carbon Fibre Materials Product Market Performance

10.4.4 Hexcel Business Overview

10.4.5 Hexcel Recent Developments

10.5 Solvay

10.5.1 Solvay Basic Information

10.5.2 Solvay High Performance Carbon Fibre Materials Product Overview

10.5.3 Solvay High Performance Carbon Fibre Materials Product Market Performance

10.5.4 Solvay Business Overview

10.5.5 Solvay Recent Developments

10.6 SGL Carbon

10.6.1 SGL Carbon Basic Information

10.6.2 SGL Carbon High Performance Carbon Fibre Materials Product Overview

10.6.3 SGL Carbon High Performance Carbon Fibre Materials Product Market Performance

10.6.4 SGL Carbon Business Overview

10.6.5 SGL Carbon Recent Developments

10.7 DowAksa

10.7.1 DowAksa Basic Information

10.7.2 DowAksa High Performance Carbon Fibre Materials Product Overview

10.7.3 DowAksa High Performance Carbon Fibre Materials Product Market Performance

10.7.4 DowAksa Business Overview

10.7.5 DowAksa Recent Developments

10.8 Hyosung

10.8.1 Hyosung Basic Information

10.8.2 Hyosung High Performance Carbon Fibre Materials Product Overview

10.8.3 Hyosung High Performance Carbon Fibre Materials Product Market Performance

10.8.4 Hyosung Business Overview

10.8.5 Hyosung Recent Developments

10.9 Taekwang Industrial

10.9.1 Taekwang Industrial Basic Information

10.9.2 Taekwang Industrial High Performance Carbon Fibre Materials Product Overview

10.9.3 Taekwang Industrial High Performance Carbon Fibre Materials Product Market Performance

10.9.4 Taekwang Industrial Business Overview

10.9.5 Taekwang Industrial Recent Developments

10.10 Formosa Plastics

10.10.1 Formosa Plastics Basic Information

10.10.2 Formosa Plastics High Performance Carbon Fibre Materials Product Overview

10.10.3 Formosa Plastics High Performance Carbon Fibre Materials Product Market Performance

10.10.4 Formosa Plastics Business Overview

10.10.5 Formosa Plastics Recent Developments

10.11 Jiangsu Hengshen

10.11.1 Jiangsu Hengshen Basic Information

10.11.2 Jiangsu Hengshen High Performance Carbon Fibre Materials Product Overview

10.11.3 Jiangsu Hengshen High Performance Carbon Fibre Materials Product Market Performance

10.11.4 Jiangsu Hengshen Business Overview

10.11.5 Jiangsu Hengshen Recent Developments

10.12 Zhongfu Shenying

10.12.1 Zhongfu Shenying Basic Information

10.12.2 Zhongfu Shenying High Performance Carbon Fibre Materials Product Overview

10.12.3 Zhongfu Shenying High Performance Carbon Fibre Materials Product Market Performance

10.12.4 Zhongfu Shenying Business Overview

10.12.5 Zhongfu Shenying Recent Developments

10.13 Weihai Guangwei

10.13.1 Weihai Guangwei Basic Information

10.13.2 Weihai Guangwei High Performance Carbon Fibre Materials Product Overview

10.13.3 Weihai Guangwei High Performance Carbon Fibre Materials Product Market Performance

10.13.4 Weihai Guangwei Business Overview

10.13.5 Weihai Guangwei Recent Developments

11 HIGH PERFORMANCE CARBON FIBRE MATERIALS MARKET FORECAST BY REGION

11.1 Global High Performance Carbon Fibre Materials Market Size Forecast

11.2 Global High Performance Carbon Fibre Materials Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe High Performance Carbon Fibre Materials Market Size Forecast by Country

11.2.3 Asia Pacific High Performance Carbon Fibre Materials Market Size Forecast by Region

11.2.4 South America High Performance Carbon Fibre Materials Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of High Performance Carbon Fibre Materials by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global High Performance Carbon Fibre Materials Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of High Performance Carbon Fibre Materials by Type (2026-2035)

12.1.2 Global High Performance Carbon Fibre Materials Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of High Performance Carbon Fibre Materials by Type (2026-2035)

12.2 Global High Performance Carbon Fibre Materials Market Forecast by Application (2026-2035)

12.2.1 Global High Performance Carbon Fibre Materials Sales (K MT) Forecast by Application

12.2.2 Global High Performance Carbon Fibre Materials Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global High Performance Carbon Fibre Materials Market Size by Type (M USD)

Table 4. Global High Performance Carbon Fibre Materials Market Size by Application

Table 5. High Performance Carbon Fibre Materials Market Size Comparison by Region (M USD)

Table 6. Global High Performance Carbon Fibre Materials Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global High Performance Carbon Fibre Materials Sales Market Share by Manufacturers (2020-2025)

Table 8. Global High Performance Carbon Fibre Materials Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global High Performance Carbon Fibre Materials Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in High Performance Carbon Fibre Materials as of 2025)

Table 11. Global Market High Performance Carbon Fibre Materials Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global High Performance Carbon Fibre Materials Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. High Performance Carbon Fibre Materials Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global High Performance Carbon Fibre Materials Sales by Type (K MT)

Table 27. Global High Performance Carbon Fibre Materials Market Size by Type (M USD)

Table 28. Global High Performance Carbon Fibre Materials Sales (K MT) by Type (2020-2025)

Table 29. Global High Performance Carbon Fibre Materials Sales Market Share by Type (2020-2025)

Table 30. Global High Performance Carbon Fibre Materials Market Size (M USD) by Type (2020-2025)

Table 31. Global High Performance Carbon Fibre Materials Market Share by Type (2020-2025)

Table 32. Global High Performance Carbon Fibre Materials Price (USD/KG) by Type (2020-2025)

Table 33. Global High Performance Carbon Fibre Materials Sales (K MT) by Application

Table 34. Global High Performance Carbon Fibre Materials Market Size by Application

Table 35. Global High Performance Carbon Fibre Materials Sales by Application (2020-2025) & (K MT)

Table 36. Global High Performance Carbon Fibre Materials Sales Market Share by Application (2020-2025)

Table 37. Global High Performance Carbon Fibre Materials Market Size by Application (2020-2025) & (M USD)

Table 38. Global High Performance Carbon Fibre Materials Market Share by Application (2020-2025)

Table 39. Global High Performance Carbon Fibre Materials Sales Growth Rate by Application (2020-2025)

Table 40. Global High Performance Carbon Fibre Materials Sales by Region (2020-2025) & (K MT)

Table 41. Global High Performance Carbon Fibre Materials Sales Market Share by Region (2020-2025)

Table 42. Global High Performance Carbon Fibre Materials Market Size by Region (2020-2025) & (M USD)

Table 43. Global High Performance Carbon Fibre Materials Market Size by Region (2020-2025)

Table 44. North America High Performance Carbon Fibre Materials Sales by Country (2020-2025) & (K MT)

Table 45. North America High Performance Carbon Fibre Materials Market Size by Country (2020-2025) & (M USD)

Table 46. Europe High Performance Carbon Fibre Materials Sales by Country (2020-2025) & (K MT)

Table 47. Europe High Performance Carbon Fibre Materials Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific High Performance Carbon Fibre Materials Sales by Region (2020-2025) & (K MT)

Table 49. Asia Pacific High Performance Carbon Fibre Materials Market Size by Region (2020-2025) & (M USD)

Table 50. South America High Performance Carbon Fibre Materials Sales by Country (2020-2025) & (K MT)

Table 51. South America High Performance Carbon Fibre Materials Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa High Performance Carbon Fibre Materials Sales by Region (2020-2025) & (K MT)

Table 53. Middle East and Africa High Performance Carbon Fibre Materials Market Size by Region (2020-2025) & (M USD)

Table 54. Global High Performance Carbon Fibre Materials Production (K MT) by Region(2020-2025)

Table 55. Global High Performance Carbon Fibre Materials Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global High Performance Carbon Fibre Materials Revenue Market Share by Region (2020-2025)

Table 57. Global High Performance Carbon Fibre Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America High Performance Carbon Fibre Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe High Performance Carbon Fibre Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan High Performance Carbon Fibre Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China High Performance Carbon Fibre Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Toray Basic Information

Table 63. Toray High Performance Carbon Fibre Materials Product Overview

Table 64. Toray High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Toray Business Overview

Table 66. Toray SWOT Analysis

Table 67. Toray Recent Developments

Table 68. Teijin Basic Information

Table 69. Teijin High Performance Carbon Fibre Materials Product Overview

Table 70. Teijin High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Teijin Business Overview

Table 72. Teijin SWOT Analysis

Table 73. Teijin Recent Developments

Table 74. Mitsubishi Chemical Basic Information

Table 75. Mitsubishi Chemical High Performance Carbon Fibre Materials Product Overview

Table 76. Mitsubishi Chemical High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Mitsubishi Chemical Business Overview

Table 78. Mitsubishi Chemical SWOT Analysis

Table 79. Mitsubishi Chemical Recent Developments

Table 80. Hexcel Basic Information

Table 81. Hexcel High Performance Carbon Fibre Materials Product Overview

Table 82. Hexcel High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Hexcel Business Overview

Table 84. Hexcel Recent Developments

Table 85. Solvay Basic Information

Table 86. Solvay High Performance Carbon Fibre Materials Product Overview

Table 87. Solvay High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Solvay Business Overview

Table 89. Solvay Recent Developments

Table 90. SGL Carbon Basic Information

Table 91. SGL Carbon High Performance Carbon Fibre Materials Product Overview

Table 92. SGL Carbon High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 93. SGL Carbon Business Overview

Table 94. SGL Carbon Recent Developments

Table 95. DowAksa Basic Information

Table 96. DowAksa High Performance Carbon Fibre Materials Product Overview

Table 97. DowAksa High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 98. DowAksa Business Overview

Table 99. DowAksa Recent Developments

Table 100. Hyosung Basic Information

Table 101. Hyosung High Performance Carbon Fibre Materials Product Overview

Table 102. Hyosung High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 103. Hyosung Business Overview

Table 104. Hyosung Recent Developments

Table 105. Taekwang Industrial Basic Information

Table 106. Taekwang Industrial High Performance Carbon Fibre Materials Product Overview

Table 107. Taekwang Industrial High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 108. Taekwang Industrial Business Overview

Table 109. Taekwang Industrial Recent Developments

Table 110. Formosa Plastics Basic Information

Table 111. Formosa Plastics High Performance Carbon Fibre Materials Product Overview

Table 112. Formosa Plastics High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 113. Formosa Plastics Business Overview

Table 114. Formosa Plastics Recent Developments

Table 115. Jiangsu Hengshen Basic Information

Table 116. Jiangsu Hengshen High Performance Carbon Fibre Materials Product Overview

Table 117. Jiangsu Hengshen High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 118. Jiangsu Hengshen Business Overview

Table 119. Jiangsu Hengshen Recent Developments

Table 120. Zhongfu Shenying Basic Information

Table 121. Zhongfu Shenying High Performance Carbon Fibre Materials Product Overview

Table 122. Zhongfu Shenying High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 123. Zhongfu Shenying Business Overview

Table 124. Zhongfu Shenying Recent Developments

Table 125. Weihai Guangwei Basic Information

Table 126. Weihai Guangwei High Performance Carbon Fibre Materials Product Overview

Table 127. Weihai Guangwei High Performance Carbon Fibre Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 128. Weihai Guangwei Business Overview

Table 129. Weihai Guangwei Recent Developments

Table 130. Global High Performance Carbon Fibre Materials Sales Forecast by Region (2026-2035) & (K MT)

Table 131. Global High Performance Carbon Fibre Materials Market Size Forecast by Region (2026-2035) & (M USD)

Table 132. North America High Performance Carbon Fibre Materials Sales Forecast by Country (2026-2035) & (K MT)

Table 133. North America High Performance Carbon Fibre Materials Market Size Forecast by Country (2026-2035) & (M USD)

Table 134. Europe High Performance Carbon Fibre Materials Sales Forecast by Country (2026-2035) & (K MT)

Table 135. Europe High Performance Carbon Fibre Materials Market Size Forecast by Country (2026-2035) & (M USD)

Table 136. Asia Pacific High Performance Carbon Fibre Materials Sales Forecast by Region (2026-2035) & (K MT)

Table 137. Asia Pacific High Performance Carbon Fibre Materials Market Size Forecast by Region (2026-2035) & (M USD)

Table 138. South America High Performance Carbon Fibre Materials Sales Forecast by Country (2026-2035) & (K MT)

Table 139. South America High Performance Carbon Fibre Materials Market Size Forecast by Country (2026-2035) & (M USD)

Table 140. Middle East and Africa High Performance Carbon Fibre Materials Sales Forecast by Country (2026-2035) & (Units)

Table 141. Middle East and Africa High Performance Carbon Fibre Materials Market Size Forecast by Country (2026-2035) & (M USD)

Table 142. Global High Performance Carbon Fibre Materials Sales Forecast by Type (2026-2035) & (K MT)

Table 143. Global High Performance Carbon Fibre Materials Market Size Forecast by Type (2026-2035) & (M USD)

Table 144. Global High Performance Carbon Fibre Materials Price Forecast by Type (2026-2035) & (USD/KG)

Table 145. Global High Performance Carbon Fibre Materials Sales (K MT) Forecast by Application (2026-2035)

Table 146. Global High Performance Carbon Fibre Materials Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of High Performance Carbon Fibre Materials
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global High Performance Carbon Fibre Materials Market Size (M USD), 2025-2035
- Figure 5. Global High Performance Carbon Fibre Materials Market Size (M USD) (2020-2035)
- Figure 6. Global High Performance Carbon Fibre Materials Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. High Performance Carbon Fibre Materials Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global High Performance Carbon Fibre Materials Product Life Cycle
- Figure 13. High Performance Carbon Fibre Materials Sales Share by Manufacturers in 2025
- Figure 14. Global High Performance Carbon Fibre Materials Revenue Share by Manufacturers in 2025
- Figure 15. High Performance Carbon Fibre Materials Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market High Performance Carbon Fibre Materials Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by High Performance Carbon Fibre Materials Revenue in 2025
- Figure 18. Industry Chain Map of High Performance Carbon Fibre Materials
- Figure 19. Global High Performance Carbon Fibre Materials Market PEST Analysis
- Figure 20. Global High Performance Carbon Fibre Materials Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global High Performance Carbon Fibre Materials Market Share by Type
- Figure 27. Sales Market Share of High Performance Carbon Fibre Materials by Type

(2020-2025)

Figure 28. Sales Market Share of High Performance Carbon Fibre Materials by Type in 2025

Figure 29. Market Share of High Performance Carbon Fibre Materials by Type (2020-2025)

Figure 30. Market Share of High Performance Carbon Fibre Materials by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global High Performance Carbon Fibre Materials Market Share by Application

Figure 33. Global High Performance Carbon Fibre Materials Sales Market Share by Application (2020-2025)

Figure 34. Global High Performance Carbon Fibre Materials Sales Market Share by Application in 2025

Figure 35. Global High Performance Carbon Fibre Materials Market Share by Application (2020-2025)

Figure 36. Global High Performance Carbon Fibre Materials Market Share by Application in 2025

Figure 37. Global High Performance Carbon Fibre Materials Sales Growth Rate by Application (2020-2025)

Figure 38. Global High Performance Carbon Fibre Materials Sales Market Share by Region (2020-2025)

Figure 39. Global High Performance Carbon Fibre Materials Market Size by Region (2020-2025)

Figure 40. North America High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America High Performance Carbon Fibre Materials Sales Market Share by Country in 2024

Figure 43. North America High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America High Performance Carbon Fibre Materials Market Size by Country in 2024

Figure 45. U.S. High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada High Performance Carbon Fibre Materials Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada High Performance Carbon Fibre Materials Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico High Performance Carbon Fibre Materials Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico High Performance Carbon Fibre Materials Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe High Performance Carbon Fibre Materials Sales Market Share by Country in 2024

Figure 53. Europe High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe High Performance Carbon Fibre Materials Market Size by Country in 2024

Figure 55. Germany High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific High Performance Carbon Fibre Materials Sales and Growth Rate (K MT)

Figure 66. Asia Pacific High Performance Carbon Fibre Materials Sales Market Share by Region in 2024

Figure 67. Asia Pacific High Performance Carbon Fibre Materials Market Size by

Region in 2024

Figure 68. China High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America High Performance Carbon Fibre Materials Sales and Growth Rate (K MT)

Figure 79. South America High Performance Carbon Fibre Materials Sales Market Share by Country in 2024

Figure 80. South America High Performance Carbon Fibre Materials Market Size and Growth Rate (M USD)

Figure 81. South America High Performance Carbon Fibre Materials Market Size by Country in 2024

Figure 82. Brazil High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa High Performance Carbon Fibre Materials Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa High Performance Carbon Fibre Materials Sales Market Share by Region in 2024

Figure 90. Middle East and Africa High Performance Carbon Fibre Materials Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa High Performance Carbon Fibre Materials Market Size by Region in 2024

Figure 92. Saudi Arabia High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa High Performance Carbon Fibre Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa High Performance Carbon Fibre Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global High Performance Carbon Fibre Materials Production Market Share by Region (2020-2025)

Figure 103. North America High Performance Carbon Fibre Materials Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe High Performance Carbon Fibre Materials Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan High Performance Carbon Fibre Materials Production (K MT) Growth Rate (2020-2025)

Figure 106. China High Performance Carbon Fibre Materials Production (K MT) Growth

Rate (2020-2025)

Figure 107. Global High Performance Carbon Fibre Materials Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global High Performance Carbon Fibre Materials Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global High Performance Carbon Fibre Materials Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global High Performance Carbon Fibre Materials Market Share Forecast by Type (2026-2035)

Figure 111. Global High Performance Carbon Fibre Materials Sales Forecast by Application (2026-2035)

Figure 112. Global High Performance Carbon Fibre Materials Market Share Forecast by Application (2026-2035)

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