

Global Rayon Based Carbon Fiber Market Research Report 2025(Status and Outlook)

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Abstracts

Rayon-based carbon fiber refers to a specific type of carbon fiber derived from rayon (a regenerated cellulose fiber) precursor, which undergoes a series of thermal treatments?including stabilization, carbonization, and graphitization?to convert the organic polymer into a material composed predominantly of carbon atoms with a graphite-like structure; this production method yields carbon fibers characterized by their high tensile strength, excellent thermal stability, low density, and superior performance in high-temperature environments, making them particularly suitable for specialized aerospace, military, and industrial applications where extreme conditions demand materials with exceptional resistance to heat and mechanical stress.

The global Rayon Based Carbon Fiber market size was estimated at USD 1205.5 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 8.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Rayon Based Carbon Fiber 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 Rayon

Based Carbon Fiber 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 Rayon Based Carbon Fiber market.

Global Rayon Based Carbon Fiber 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

Cytec
Mitsubishi Rayon
SGL
Teijin
Toray
M-Carbo
CFCCARBON LTD
ZOLTEK Corporation
OJSC SvetlogorskKhimvolokno
Hexcel Corporation

Market Segmentation (by Type)

Long Fiber
Short Fiber

Market Segmentation (by Application)

Energy
Medicine
Aerospace
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 Rayon Based Carbon Fiber Market
Overview of the regional outlook of the Rayon Based Carbon Fiber Market:

Customization of the Report

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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 Rayon Based Carbon Fiber 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 Rayon Based Carbon Fiber, 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 Rayon Based Carbon Fiber

1.2 Key Market Segments

1.2.1 Rayon Based Carbon Fiber Segment by Type

1.2.2 Rayon Based Carbon Fiber 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 RAYON BASED CARBON FIBER MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Rayon Based Carbon Fiber Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Rayon Based Carbon Fiber Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 RAYON BASED CARBON FIBER MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Rayon Based Carbon Fiber Product Life Cycle

3.3 Global Rayon Based Carbon Fiber Sales by Manufacturers (2020-2025)

3.4 Global Rayon Based Carbon Fiber Revenue Market Share by Manufacturers (2020-2025)

3.5 Rayon Based Carbon Fiber Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Rayon Based Carbon Fiber Average Price by Manufacturers (2020-2025)

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

3.8 Rayon Based Carbon Fiber Market Competitive Situation and Trends

3.8.1 Rayon Based Carbon Fiber Market Concentration Rate

3.8.2 Global 5 and 10 Largest Rayon Based Carbon Fiber Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 RAYON BASED CARBON FIBER INDUSTRY CHAIN ANALYSIS

4.1 Rayon Based Carbon Fiber 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 RAYON BASED CARBON FIBER 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 Rayon Based Carbon Fiber 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 Rayon Based Carbon Fiber Market

5.7 ESG Ratings of Leading Companies

6 RAYON BASED CARBON FIBER MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Rayon Based Carbon Fiber Sales Market Share by Type (2020-2025)

6.3 Global Rayon Based Carbon Fiber Market Size Market Share by Type (2020-2025)

6.4 Global Rayon Based Carbon Fiber Price by Type (2020-2025)

7 RAYON BASED CARBON FIBER MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Rayon Based Carbon Fiber Market Sales by Application (2020-2025)
- 7.3 Global Rayon Based Carbon Fiber Market Size (M USD) by Application (2020-2025)
- 7.4 Global Rayon Based Carbon Fiber Sales Growth Rate by Application (2020-2025)

8 RAYON BASED CARBON FIBER MARKET SALES BY REGION

- 8.1 Global Rayon Based Carbon Fiber Sales by Region
 - 8.1.1 Global Rayon Based Carbon Fiber Sales by Region
 - 8.1.2 Global Rayon Based Carbon Fiber Sales Market Share by Region
- 8.2 Global Rayon Based Carbon Fiber Market Size by Region
 - 8.2.1 Global Rayon Based Carbon Fiber Market Size by Region
 - 8.2.2 Global Rayon Based Carbon Fiber Market Size Market Share by Region
- 8.3 North America
 - 8.3.1 North America Rayon Based Carbon Fiber Sales by Country
 - 8.3.2 North America Rayon Based Carbon Fiber 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 Rayon Based Carbon Fiber Sales by Country
 - 8.4.2 Europe Rayon Based Carbon Fiber 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 Rayon Based Carbon Fiber Sales by Region
 - 8.5.2 Asia Pacific Rayon Based Carbon Fiber 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 Rayon Based Carbon Fiber Sales by Country
 - 8.6.2 South America Rayon Based Carbon Fiber 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 Rayon Based Carbon Fiber Sales by Region

8.7.2 Middle East and Africa Rayon Based Carbon Fiber 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 RAYON BASED CARBON FIBER MARKET PRODUCTION BY REGION

9.1 Global Production of Rayon Based Carbon Fiber by Region(2020-2025)

9.2 Global Rayon Based Carbon Fiber Revenue Market Share by Region (2020-2025)

9.3 Global Rayon Based Carbon Fiber Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Rayon Based Carbon Fiber Production

9.4.1 North America Rayon Based Carbon Fiber Production Growth Rate (2020-2025)

9.4.2 North America Rayon Based Carbon Fiber Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Rayon Based Carbon Fiber Production

9.5.1 Europe Rayon Based Carbon Fiber Production Growth Rate (2020-2025)

9.5.2 Europe Rayon Based Carbon Fiber Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Rayon Based Carbon Fiber Production (2020-2025)

9.6.1 Japan Rayon Based Carbon Fiber Production Growth Rate (2020-2025)

9.6.2 Japan Rayon Based Carbon Fiber Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Rayon Based Carbon Fiber Production (2020-2025)

9.7.1 China Rayon Based Carbon Fiber Production Growth Rate (2020-2025)

9.7.2 China Rayon Based Carbon Fiber Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Cytec

10.1.1 Cytec Basic Information

- 10.1.2 Cytec Rayon Based Carbon Fiber Product Overview
- 10.1.3 Cytec Rayon Based Carbon Fiber Product Market Performance
- 10.1.4 Cytec Business Overview
- 10.1.5 Cytec SWOT Analysis
- 10.1.6 Cytec Recent Developments
- 10.2 Mitsubishi Rayon
 - 10.2.1 Mitsubishi Rayon Basic Information
 - 10.2.2 Mitsubishi Rayon Rayon Based Carbon Fiber Product Overview
 - 10.2.3 Mitsubishi Rayon Rayon Based Carbon Fiber Product Market Performance
 - 10.2.4 Mitsubishi Rayon Business Overview
 - 10.2.5 Mitsubishi Rayon SWOT Analysis
 - 10.2.6 Mitsubishi Rayon Recent Developments
- 10.3 SGL
 - 10.3.1 SGL Basic Information
 - 10.3.2 SGL Rayon Based Carbon Fiber Product Overview
 - 10.3.3 SGL Rayon Based Carbon Fiber Product Market Performance
 - 10.3.4 SGL Business Overview
 - 10.3.5 SGL SWOT Analysis
 - 10.3.6 SGL Recent Developments
- 10.4 Teijin
 - 10.4.1 Teijin Basic Information
 - 10.4.2 Teijin Rayon Based Carbon Fiber Product Overview
 - 10.4.3 Teijin Rayon Based Carbon Fiber Product Market Performance
 - 10.4.4 Teijin Business Overview
 - 10.4.5 Teijin Recent Developments
- 10.5 Toray
 - 10.5.1 Toray Basic Information
 - 10.5.2 Toray Rayon Based Carbon Fiber Product Overview
 - 10.5.3 Toray Rayon Based Carbon Fiber Product Market Performance
 - 10.5.4 Toray Business Overview
 - 10.5.5 Toray Recent Developments
- 10.6 M-Carbo
 - 10.6.1 M-Carbo Basic Information
 - 10.6.2 M-Carbo Rayon Based Carbon Fiber Product Overview
 - 10.6.3 M-Carbo Rayon Based Carbon Fiber Product Market Performance
 - 10.6.4 M-Carbo Business Overview
 - 10.6.5 M-Carbo Recent Developments
- 10.7 CFCCARBON LTD
 - 10.7.1 CFCCARBON LTD Basic Information

- 10.7.2 CFCCARBON LTD Rayon Based Carbon Fiber Product Overview
- 10.7.3 CFCCARBON LTD Rayon Based Carbon Fiber Product Market Performance
- 10.7.4 CFCCARBON LTD Business Overview
- 10.7.5 CFCCARBON LTD Recent Developments
- 10.8 ZOLTEK Corporation
 - 10.8.1 ZOLTEK Corporation Basic Information
 - 10.8.2 ZOLTEK Corporation Rayon Based Carbon Fiber Product Overview
 - 10.8.3 ZOLTEK Corporation Rayon Based Carbon Fiber Product Market Performance
 - 10.8.4 ZOLTEK Corporation Business Overview
 - 10.8.5 ZOLTEK Corporation Recent Developments
- 10.9 OJSC SvetlogorskKhimvolokno
 - 10.9.1 OJSC SvetlogorskKhimvolokno Basic Information
 - 10.9.2 OJSC SvetlogorskKhimvolokno Rayon Based Carbon Fiber Product Overview
 - 10.9.3 OJSC SvetlogorskKhimvolokno Rayon Based Carbon Fiber Product Market Performance
 - 10.9.4 OJSC SvetlogorskKhimvolokno Business Overview
 - 10.9.5 OJSC SvetlogorskKhimvolokno Recent Developments
- 10.10 Hexcel Corporation
 - 10.10.1 Hexcel Corporation Basic Information
 - 10.10.2 Hexcel Corporation Rayon Based Carbon Fiber Product Overview
 - 10.10.3 Hexcel Corporation Rayon Based Carbon Fiber Product Market Performance
 - 10.10.4 Hexcel Corporation Business Overview
 - 10.10.5 Hexcel Corporation Recent Developments

11 RAYON BASED CARBON FIBER MARKET FORECAST BY REGION

- 11.1 Global Rayon Based Carbon Fiber Market Size Forecast
- 11.2 Global Rayon Based Carbon Fiber Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Rayon Based Carbon Fiber Market Size Forecast by Country
 - 11.2.3 Asia Pacific Rayon Based Carbon Fiber Market Size Forecast by Region
 - 11.2.4 South America Rayon Based Carbon Fiber Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Rayon Based Carbon Fiber by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

- 12.1 Global Rayon Based Carbon Fiber Market Forecast by Type (2026-2033)
 - 12.1.1 Global Forecasted Sales of Rayon Based Carbon Fiber by Type (2026-2033)

- 12.1.2 Global Rayon Based Carbon Fiber Market Size Forecast by Type (2026-2033)
- 12.1.3 Global Forecasted Price of Rayon Based Carbon Fiber by Type (2026-2033)
- 12.2 Global Rayon Based Carbon Fiber Market Forecast by Application (2026-2033)
 - 12.2.1 Global Rayon Based Carbon Fiber Sales (K MT) Forecast by Application
 - 12.2.2 Global Rayon Based Carbon Fiber Market Size (M USD) Forecast by Application (2026-2033)

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. Market Size (M USD) Segment Executive Summary

Table 4. Rayon Based Carbon Fiber Market Size Comparison by Region (M USD)

Table 5. Global Rayon Based Carbon Fiber Sales (K MT) by Manufacturers
(2020-2025)

Table 6. Global Rayon Based Carbon Fiber Sales Market Share by Manufacturers
(2020-2025)

Table 7. Global Rayon Based Carbon Fiber Revenue (M USD) by Manufacturers
(2020-2025)

Table 8. Global Rayon Based Carbon Fiber Revenue Share by Manufacturers
(2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Rayon Based Carbon Fiber as of 2024)

Table 10. Global Market Rayon Based Carbon Fiber Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Rayon Based Carbon Fiber Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Rayon Based Carbon Fiber Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 25. Global Rayon Based Carbon Fiber Sales by Type (K MT)

Table 26. Global Rayon Based Carbon Fiber Market Size by Type (M USD)

Table 27. Global Rayon Based Carbon Fiber Sales (K MT) by Type (2020-2025)

Table 28. Global Rayon Based Carbon Fiber Sales Market Share by Type (2020-2025)

Table 29. Global Rayon Based Carbon Fiber Market Size (M USD) by Type (2020-2025)

Table 30. Global Rayon Based Carbon Fiber Market Size Share by Type (2020-2025)

Table 31. Global Rayon Based Carbon Fiber Price (USD/KG) by Type (2020-2025)

Table 32. Global Rayon Based Carbon Fiber Sales (K MT) by Application

Table 33. Global Rayon Based Carbon Fiber Market Size by Application

Table 34. Global Rayon Based Carbon Fiber Sales by Application (2020-2025) & (K MT)

Table 35. Global Rayon Based Carbon Fiber Sales Market Share by Application (2020-2025)

Table 36. Global Rayon Based Carbon Fiber Market Size by Application (2020-2025) & (M USD)

Table 37. Global Rayon Based Carbon Fiber Market Share by Application (2020-2025)

Table 38. Global Rayon Based Carbon Fiber Sales Growth Rate by Application (2020-2025)

Table 39. Global Rayon Based Carbon Fiber Sales by Region (2020-2025) & (K MT)

Table 40. Global Rayon Based Carbon Fiber Sales Market Share by Region (2020-2025)

Table 41. Global Rayon Based Carbon Fiber Market Size by Region (2020-2025) & (M USD)

Table 42. Global Rayon Based Carbon Fiber Market Size Market Share by Region (2020-2025)

Table 43. North America Rayon Based Carbon Fiber Sales by Country (2020-2025) & (K MT)

Table 44. North America Rayon Based Carbon Fiber Market Size by Country (2020-2025) & (M USD)

Table 45. Europe Rayon Based Carbon Fiber Sales by Country (2020-2025) & (K MT)

Table 46. Europe Rayon Based Carbon Fiber Market Size by Country (2020-2025) & (M USD)

Table 47. Asia Pacific Rayon Based Carbon Fiber Sales by Region (2020-2025) & (K MT)

Table 48. Asia Pacific Rayon Based Carbon Fiber Market Size by Region (2020-2025) & (M USD)

Table 49. South America Rayon Based Carbon Fiber Sales by Country (2020-2025) & (K MT)

Table 50. South America Rayon Based Carbon Fiber Market Size by Country (2020-2025) & (M USD)

Table 51. Middle East and Africa Rayon Based Carbon Fiber Sales by Region

(2020-2025) & (K MT)

Table 52. Middle East and Africa Rayon Based Carbon Fiber Market Size by Region (2020-2025) & (M USD)

Table 53. Global Rayon Based Carbon Fiber Production (K MT) by Region(2020-2025)

Table 54. Global Rayon Based Carbon Fiber Revenue (US\$ Million) by Region (2020-2025)

Table 55. Global Rayon Based Carbon Fiber Revenue Market Share by Region (2020-2025)

Table 56. Global Rayon Based Carbon Fiber Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 57. North America Rayon Based Carbon Fiber Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. Europe Rayon Based Carbon Fiber Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Japan Rayon Based Carbon Fiber Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. China Rayon Based Carbon Fiber Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. Cytec Basic Information

Table 62. Cytec Rayon Based Carbon Fiber Product Overview

Table 63. Cytec Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. Cytec Business Overview

Table 65. Cytec SWOT Analysis

Table 66. Cytec Recent Developments

Table 67. Mitsubishi Rayon Basic Information

Table 68. Mitsubishi Rayon Rayon Based Carbon Fiber Product Overview

Table 69. Mitsubishi Rayon Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Mitsubishi Rayon Business Overview

Table 71. Mitsubishi Rayon SWOT Analysis

Table 72. Mitsubishi Rayon Recent Developments

Table 73. SGL Basic Information

Table 74. SGL Rayon Based Carbon Fiber Product Overview

Table 75. SGL Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. SGL Business Overview

Table 77. SGL SWOT Analysis

Table 78. SGL Recent Developments

Table 79. Teijin Basic Information
Table 80. Teijin Rayon Based Carbon Fiber Product Overview
Table 81. Teijin Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 82. Teijin Business Overview
Table 83. Teijin Recent Developments
Table 84. Toray Basic Information
Table 85. Toray Rayon Based Carbon Fiber Product Overview
Table 86. Toray Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 87. Toray Business Overview
Table 88. Toray Recent Developments
Table 89. M-Carbo Basic Information
Table 90. M-Carbo Rayon Based Carbon Fiber Product Overview
Table 91. M-Carbo Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 92. M-Carbo Business Overview
Table 93. M-Carbo Recent Developments
Table 94. CFCCARBON LTD Basic Information
Table 95. CFCCARBON LTD Rayon Based Carbon Fiber Product Overview
Table 96. CFCCARBON LTD Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 97. CFCCARBON LTD Business Overview
Table 98. CFCCARBON LTD Recent Developments
Table 99. ZOLTEK Corporation Basic Information
Table 100. ZOLTEK Corporation Rayon Based Carbon Fiber Product Overview
Table 101. ZOLTEK Corporation Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 102. ZOLTEK Corporation Business Overview
Table 103. ZOLTEK Corporation Recent Developments
Table 104. OJSC SvetlogorskKhimvolokno Basic Information
Table 105. OJSC SvetlogorskKhimvolokno Rayon Based Carbon Fiber Product Overview
Table 106. OJSC SvetlogorskKhimvolokno Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 107. OJSC SvetlogorskKhimvolokno Business Overview
Table 108. OJSC SvetlogorskKhimvolokno Recent Developments
Table 109. Hexcel Corporation Basic Information
Table 110. Hexcel Corporation Rayon Based Carbon Fiber Product Overview

Table 111. Hexcel Corporation Rayon Based Carbon Fiber Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 112. Hexcel Corporation Business Overview

Table 113. Hexcel Corporation Recent Developments

Table 114. Global Rayon Based Carbon Fiber Sales Forecast by Region (2026-2033) & (K MT)

Table 115. Global Rayon Based Carbon Fiber Market Size Forecast by Region (2026-2033) & (M USD)

Table 116. North America Rayon Based Carbon Fiber Sales Forecast by Country (2026-2033) & (K MT)

Table 117. North America Rayon Based Carbon Fiber Market Size Forecast by Country (2026-2033) & (M USD)

Table 118. Europe Rayon Based Carbon Fiber Sales Forecast by Country (2026-2033) & (K MT)

Table 119. Europe Rayon Based Carbon Fiber Market Size Forecast by Country (2026-2033) & (M USD)

Table 120. Asia Pacific Rayon Based Carbon Fiber Sales Forecast by Region (2026-2033) & (K MT)

Table 121. Asia Pacific Rayon Based Carbon Fiber Market Size Forecast by Region (2026-2033) & (M USD)

Table 122. South America Rayon Based Carbon Fiber Sales Forecast by Country (2026-2033) & (K MT)

Table 123. South America Rayon Based Carbon Fiber Market Size Forecast by Country (2026-2033) & (M USD)

Table 124. Middle East and Africa Rayon Based Carbon Fiber Sales Forecast by Country (2026-2033) & (Units)

Table 125. Middle East and Africa Rayon Based Carbon Fiber Market Size Forecast by Country (2026-2033) & (M USD)

Table 126. Global Rayon Based Carbon Fiber Sales Forecast by Type (2026-2033) & (K MT)

Table 127. Global Rayon Based Carbon Fiber Market Size Forecast by Type (2026-2033) & (M USD)

Table 128. Global Rayon Based Carbon Fiber Price Forecast by Type (2026-2033) & (USD/KG)

Table 129. Global Rayon Based Carbon Fiber Sales (K MT) Forecast by Application (2026-2033)

Table 130. Global Rayon Based Carbon Fiber Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Rayon Based Carbon Fiber
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Rayon Based Carbon Fiber Market Size (M USD), 2024-2033
- Figure 5. Global Rayon Based Carbon Fiber Market Size (M USD) (2020-2033)
- Figure 6. Global Rayon Based Carbon Fiber Sales (K MT) & (2020-2033)
- 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. Rayon Based Carbon Fiber Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Rayon Based Carbon Fiber Product Life Cycle
- Figure 13. Rayon Based Carbon Fiber Sales Share by Manufacturers in 2024
- Figure 14. Global Rayon Based Carbon Fiber Revenue Share by Manufacturers in 2024
- Figure 15. Rayon Based Carbon Fiber Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Rayon Based Carbon Fiber Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Rayon Based Carbon Fiber Revenue in 2024
- Figure 18. Industry Chain Map of Rayon Based Carbon Fiber
- Figure 19. Global Rayon Based Carbon Fiber Market PEST Analysis
- Figure 20. Global Rayon Based Carbon Fiber 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 Rayon Based Carbon Fiber Market Share by Type
- Figure 27. Sales Market Share of Rayon Based Carbon Fiber by Type (2020-2025)
- Figure 28. Sales Market Share of Rayon Based Carbon Fiber by Type in 2024
- Figure 29. Market Size Share of Rayon Based Carbon Fiber by Type (2020-2025)
- Figure 30. Market Size Share of Rayon Based Carbon Fiber by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Rayon Based Carbon Fiber Market Share by Application

Figure 33. Global Rayon Based Carbon Fiber Sales Market Share by Application (2020-2025)

Figure 34. Global Rayon Based Carbon Fiber Sales Market Share by Application in 2024

Figure 35. Global Rayon Based Carbon Fiber Market Share by Application (2020-2025)

Figure 36. Global Rayon Based Carbon Fiber Market Share by Application in 2024

Figure 37. Global Rayon Based Carbon Fiber Sales Growth Rate by Application (2020-2025)

Figure 38. Global Rayon Based Carbon Fiber Sales Market Share by Region (2020-2025)

Figure 39. Global Rayon Based Carbon Fiber Market Size Market Share by Region (2020-2025)

Figure 40. North America Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Rayon Based Carbon Fiber Sales Market Share by Country in 2024

Figure 43. North America Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Rayon Based Carbon Fiber Market Size Market Share by Country in 2024

Figure 45. U.S. Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Rayon Based Carbon Fiber Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Rayon Based Carbon Fiber Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Rayon Based Carbon Fiber Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Rayon Based Carbon Fiber Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Rayon Based Carbon Fiber Sales Market Share by Country in 2024

Figure 53. Europe Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Rayon Based Carbon Fiber Market Size Market Share by Country in 2024

Figure 55. Germany Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Rayon Based Carbon Fiber Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Rayon Based Carbon Fiber Sales Market Share by Region in 2024

Figure 67. Asia Pacific Rayon Based Carbon Fiber Market Size Market Share by Region in 2024

Figure 68. China Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Rayon Based Carbon Fiber Sales and Growth Rate (K MT)

Figure 79. South America Rayon Based Carbon Fiber Sales Market Share by Country in 2024

Figure 80. South America Rayon Based Carbon Fiber Market Size and Growth Rate (M USD)

Figure 81. South America Rayon Based Carbon Fiber Market Size Market Share by Country in 2024

Figure 82. Brazil Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Rayon Based Carbon Fiber Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Rayon Based Carbon Fiber Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Rayon Based Carbon Fiber Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Rayon Based Carbon Fiber Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Rayon Based Carbon Fiber Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Rayon Based Carbon Fiber Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Rayon Based Carbon Fiber Production Market Share by Region (2020-2025)

Figure 103. North America Rayon Based Carbon Fiber Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Rayon Based Carbon Fiber Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Rayon Based Carbon Fiber Production (K MT) Growth Rate (2020-2025)

Figure 106. China Rayon Based Carbon Fiber Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Rayon Based Carbon Fiber Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Rayon Based Carbon Fiber Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Rayon Based Carbon Fiber Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Rayon Based Carbon Fiber Market Share Forecast by Type (2026-2033)

Figure 111. Global Rayon Based Carbon Fiber Sales Forecast by Application (2026-2033)

Figure 112. Global Rayon Based Carbon Fiber Market Share Forecast by Application (2026-2033)

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