

Global Carbon Composites Market Research Report 2023(Status and Outlook)

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Abstracts

Report Overview

There are two preparation methods for carbon-based composite materials: one is impregnation method, that is, impregnating molten petroleum or coal tar pitch with reinforcing body, and then treated by carbonization and graphite, the matrix of which is graphite carbon, which has a layered strip structure, and the performance is Anisotropic. Also, the reinforcing body is impregnated with a thermosetting resin such as decyl alcohol or phenolic, and the substrate is only glassy carbon, that is, an amorphous carbon structure, and the properties are isotropic; the other is the CVD method, that is, the heat of the hydrocarbon compound. Carbon dissolving is deposited on the reinforcement to recombine. The carbon matrix of this method is pyrocarbon like glassy carbon. Carbon/carbon composites are not resistant to oxidation, so it is sometimes necessary to add an oxidation resistant coating.

The increasing use of carbon composites in commercial aircraft will be one of the major factors that will have a positive impact on the growth of the market. Boeing and Airbus are the two major OEMs who extensively use carbon composites to manufacture their planes. For instance, Boeing 787 Dreamliner launched in 2011 and AirbusA350 launched in 2015 are made from carbon composite. The application of carbon composites results in the production of the lightweight planes that are more fuel efficient. This in turn, benefits passengers by making the fares cheaper. In addition, carbon composites based aircraft ensures the safety of passengers by maintaining the cabin pressure.

Bosson Research's latest report provides a deep insight into the global Carbon Composites market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Carbon Composites Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Carbon Composites market in any manner.

Global Carbon Composites Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Hexcel

SGL Group

Solvay

TEIJIN

Toray Industries

Exel Group World Wide

Gurit

Innegra Technologies

Koninklijke Ten Cate

Mitsubishi Chemical

METYX Composites

Nippon Graphite Fiber

PLASAN CARBON COMPOSITES

SAERTEX

Sigmatex

TEI/TTC

TPI Composites

Market Segmentation (by Type)

Concrete

Plastics

Steel

Aluminium

Others

Market Segmentation (by Application)

Sporting Goods

Automotive

Wind Energy

Aerospace and Defense

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 Carbon Composites Market

Overview of the regional outlook of the Carbon Composites Market:

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 (USD Billion) 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

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 Carbon Composites 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 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 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Carbon Composites
- 1.2 Key Market Segments
 - 1.2.1 Carbon Composites Segment by Type
 - 1.2.2 Carbon Composites 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 CARBON COMPOSITES MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Carbon Composites Market Size (M USD) Estimates and Forecasts (2018-2029)
 - 2.1.2 Global Carbon Composites Sales Estimates and Forecasts (2018-2029)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 CARBON COMPOSITES MARKET COMPETITIVE LANDSCAPE

- 3.1 Global Carbon Composites Sales by Manufacturers (2018-2023)
- 3.2 Global Carbon Composites Revenue Market Share by Manufacturers (2018-2023)
- 3.3 Carbon Composites Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global Carbon Composites Average Price by Manufacturers (2018-2023)
- 3.5 Manufacturers Carbon Composites Sales Sites, Area Served, Product Type
- 3.6 Carbon Composites Market Competitive Situation and Trends
 - 3.6.1 Carbon Composites Market Concentration Rate
 - 3.6.2 Global 5 and 10 Largest Carbon Composites Players Market Share by Revenue
 - 3.6.3 Mergers & Acquisitions, Expansion

4 CARBON COMPOSITES INDUSTRY CHAIN ANALYSIS

- 4.1 Carbon Composites 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 CARBON COMPOSITES MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Market Restraints
- 5.5 Industry News
 - 5.5.1 New Product Developments
 - 5.5.2 Mergers & Acquisitions
 - 5.5.3 Expansions
 - 5.5.4 Collaboration/Supply Contracts
- 5.6 Industry Policies

6 CARBON COMPOSITES MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Carbon Composites Sales Market Share by Type (2018-2023)
- 6.3 Global Carbon Composites Market Size Market Share by Type (2018-2023)
- 6.4 Global Carbon Composites Price by Type (2018-2023)

7 CARBON COMPOSITES MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Carbon Composites Market Sales by Application (2018-2023)
- 7.3 Global Carbon Composites Market Size (M USD) by Application (2018-2023)
- 7.4 Global Carbon Composites Sales Growth Rate by Application (2018-2023)

8 CARBON COMPOSITES MARKET SEGMENTATION BY REGION

- 8.1 Global Carbon Composites Sales by Region
 - 8.1.1 Global Carbon Composites Sales by Region
 - 8.1.2 Global Carbon Composites Sales Market Share by Region
- 8.2 North America
 - 8.2.1 North America Carbon Composites Sales by Country
 - 8.2.2 U.S.

- 8.2.3 Canada
- 8.2.4 Mexico
- 8.3 Europe
 - 8.3.1 Europe Carbon Composites Sales by Country
 - 8.3.2 Germany
 - 8.3.3 France
 - 8.3.4 U.K.
 - 8.3.5 Italy
 - 8.3.6 Russia
- 8.4 Asia Pacific
 - 8.4.1 Asia Pacific Carbon Composites Sales by Region
 - 8.4.2 China
 - 8.4.3 Japan
 - 8.4.4 South Korea
 - 8.4.5 India
 - 8.4.6 Southeast Asia
- 8.5 South America
 - 8.5.1 South America Carbon Composites Sales by Country
 - 8.5.2 Brazil
 - 8.5.3 Argentina
 - 8.5.4 Columbia
- 8.6 Middle East and Africa
 - 8.6.1 Middle East and Africa Carbon Composites Sales by Region
 - 8.6.2 Saudi Arabia
 - 8.6.3 UAE
 - 8.6.4 Egypt
 - 8.6.5 Nigeria
 - 8.6.6 South Africa

9 KEY COMPANIES PROFILE

- 9.1 Hexcel
 - 9.1.1 Hexcel Carbon Composites Basic Information
 - 9.1.2 Hexcel Carbon Composites Product Overview
 - 9.1.3 Hexcel Carbon Composites Product Market Performance
 - 9.1.4 Hexcel Business Overview
 - 9.1.5 Hexcel Carbon Composites SWOT Analysis
 - 9.1.6 Hexcel Recent Developments
- 9.2 SGL Group

- 9.2.1 SGL Group Carbon Composites Basic Information
- 9.2.2 SGL Group Carbon Composites Product Overview
- 9.2.3 SGL Group Carbon Composites Product Market Performance
- 9.2.4 SGL Group Business Overview
- 9.2.5 SGL Group Carbon Composites SWOT Analysis
- 9.2.6 SGL Group Recent Developments
- 9.3 Solvay
 - 9.3.1 Solvay Carbon Composites Basic Information
 - 9.3.2 Solvay Carbon Composites Product Overview
 - 9.3.3 Solvay Carbon Composites Product Market Performance
 - 9.3.4 Solvay Business Overview
 - 9.3.5 Solvay Carbon Composites SWOT Analysis
 - 9.3.6 Solvay Recent Developments
- 9.4 TEIJIN
 - 9.4.1 TEIJIN Carbon Composites Basic Information
 - 9.4.2 TEIJIN Carbon Composites Product Overview
 - 9.4.3 TEIJIN Carbon Composites Product Market Performance
 - 9.4.4 TEIJIN Business Overview
 - 9.4.5 TEIJIN Carbon Composites SWOT Analysis
 - 9.4.6 TEIJIN Recent Developments
- 9.5 Toray Industries
 - 9.5.1 Toray Industries Carbon Composites Basic Information
 - 9.5.2 Toray Industries Carbon Composites Product Overview
 - 9.5.3 Toray Industries Carbon Composites Product Market Performance
 - 9.5.4 Toray Industries Business Overview
 - 9.5.5 Toray Industries Carbon Composites SWOT Analysis
 - 9.5.6 Toray Industries Recent Developments
- 9.6 Exel Group World Wide
 - 9.6.1 Exel Group World Wide Carbon Composites Basic Information
 - 9.6.2 Exel Group World Wide Carbon Composites Product Overview
 - 9.6.3 Exel Group World Wide Carbon Composites Product Market Performance
 - 9.6.4 Exel Group World Wide Business Overview
 - 9.6.5 Exel Group World Wide Recent Developments
- 9.7 Gurit
 - 9.7.1 Gurit Carbon Composites Basic Information
 - 9.7.2 Gurit Carbon Composites Product Overview
 - 9.7.3 Gurit Carbon Composites Product Market Performance
 - 9.7.4 Gurit Business Overview
 - 9.7.5 Gurit Recent Developments

9.8 Innegra Technologies

- 9.8.1 Innegra Technologies Carbon Composites Basic Information
- 9.8.2 Innegra Technologies Carbon Composites Product Overview
- 9.8.3 Innegra Technologies Carbon Composites Product Market Performance
- 9.8.4 Innegra Technologies Business Overview
- 9.8.5 Innegra Technologies Recent Developments

9.9 Koninklijke Ten Cate

- 9.9.1 Koninklijke Ten Cate Carbon Composites Basic Information
- 9.9.2 Koninklijke Ten Cate Carbon Composites Product Overview
- 9.9.3 Koninklijke Ten Cate Carbon Composites Product Market Performance
- 9.9.4 Koninklijke Ten Cate Business Overview
- 9.9.5 Koninklijke Ten Cate Recent Developments

9.10 Mitsubishi Chemical

- 9.10.1 Mitsubishi Chemical Carbon Composites Basic Information
- 9.10.2 Mitsubishi Chemical Carbon Composites Product Overview
- 9.10.3 Mitsubishi Chemical Carbon Composites Product Market Performance
- 9.10.4 Mitsubishi Chemical Business Overview
- 9.10.5 Mitsubishi Chemical Recent Developments

9.11 METYX Composites

- 9.11.1 METYX Composites Carbon Composites Basic Information
- 9.11.2 METYX Composites Carbon Composites Product Overview
- 9.11.3 METYX Composites Carbon Composites Product Market Performance
- 9.11.4 METYX Composites Business Overview
- 9.11.5 METYX Composites Recent Developments

9.12 Nippon Graphite Fiber

- 9.12.1 Nippon Graphite Fiber Carbon Composites Basic Information
- 9.12.2 Nippon Graphite Fiber Carbon Composites Product Overview
- 9.12.3 Nippon Graphite Fiber Carbon Composites Product Market Performance
- 9.12.4 Nippon Graphite Fiber Business Overview
- 9.12.5 Nippon Graphite Fiber Recent Developments

9.13 PLASAN CARBON COMPOSITES

- 9.13.1 PLASAN CARBON COMPOSITES Carbon Composites Basic Information
- 9.13.2 PLASAN CARBON COMPOSITES Carbon Composites Product Overview
- 9.13.3 PLASAN CARBON COMPOSITES Carbon Composites Product Market Performance
- 9.13.4 PLASAN CARBON COMPOSITES Business Overview
- 9.13.5 PLASAN CARBON COMPOSITES Recent Developments

9.14 SAERTEX

- 9.14.1 SAERTEX Carbon Composites Basic Information

- 9.14.2 SAERTEX Carbon Composites Product Overview
- 9.14.3 SAERTEX Carbon Composites Product Market Performance
- 9.14.4 SAERTEX Business Overview
- 9.14.5 SAERTEX Recent Developments
- 9.15 Sigmatex
 - 9.15.1 Sigmatex Carbon Composites Basic Information
 - 9.15.2 Sigmatex Carbon Composites Product Overview
 - 9.15.3 Sigmatex Carbon Composites Product Market Performance
 - 9.15.4 Sigmatex Business Overview
 - 9.15.5 Sigmatex Recent Developments
- 9.16 TEI/TTC
 - 9.16.1 TEI/TTC Carbon Composites Basic Information
 - 9.16.2 TEI/TTC Carbon Composites Product Overview
 - 9.16.3 TEI/TTC Carbon Composites Product Market Performance
 - 9.16.4 TEI/TTC Business Overview
 - 9.16.5 TEI/TTC Recent Developments
- 9.17 TPI Composites
 - 9.17.1 TPI Composites Carbon Composites Basic Information
 - 9.17.2 TPI Composites Carbon Composites Product Overview
 - 9.17.3 TPI Composites Carbon Composites Product Market Performance
 - 9.17.4 TPI Composites Business Overview
 - 9.17.5 TPI Composites Recent Developments

10 CARBON COMPOSITES MARKET FORECAST BY REGION

- 10.1 Global Carbon Composites Market Size Forecast
- 10.2 Global Carbon Composites Market Forecast by Region
 - 10.2.1 North America Market Size Forecast by Country
 - 10.2.2 Europe Carbon Composites Market Size Forecast by Country
 - 10.2.3 Asia Pacific Carbon Composites Market Size Forecast by Region
 - 10.2.4 South America Carbon Composites Market Size Forecast by Country
 - 10.2.5 Middle East and Africa Forecasted Consumption of Carbon Composites by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2024-2029)

- 11.1 Global Carbon Composites Market Forecast by Type (2024-2029)
 - 11.1.1 Global Forecasted Sales of Carbon Composites by Type (2024-2029)
 - 11.1.2 Global Carbon Composites Market Size Forecast by Type (2024-2029)

- 11.1.3 Global Forecasted Price of Carbon Composites by Type (2024-2029)
- 11.2 Global Carbon Composites Market Forecast by Application (2024-2029)
 - 11.2.1 Global Carbon Composites Sales (K MT) Forecast by Application
 - 11.2.2 Global Carbon Composites Market Size (M USD) Forecast by Application (2024-2029)

12 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. Carbon Composites Market Size Comparison by Region (M USD)
- Table 5. Global Carbon Composites Sales (K MT) by Manufacturers (2018-2023)
- Table 6. Global Carbon Composites Sales Market Share by Manufacturers (2018-2023)
- Table 7. Global Carbon Composites Revenue (M USD) by Manufacturers (2018-2023)
- Table 8. Global Carbon Composites Revenue Share by Manufacturers (2018-2023)
- Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Carbon Composites as of 2022)
- Table 10. Global Market Carbon Composites Average Price (USD/MT) of Key Manufacturers (2018-2023)
- Table 11. Manufacturers Carbon Composites Sales Sites and Area Served
- Table 12. Manufacturers Carbon Composites Product Type
- Table 13. Global Carbon Composites Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 14. Mergers & Acquisitions, Expansion Plans
- Table 15. Industry Chain Map of Carbon Composites
- 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. Carbon Composites Market Challenges
- Table 22. Market Restraints
- Table 23. Global Carbon Composites Sales by Type (K MT)
- Table 24. Global Carbon Composites Market Size by Type (M USD)
- Table 25. Global Carbon Composites Sales (K MT) by Type (2018-2023)
- Table 26. Global Carbon Composites Sales Market Share by Type (2018-2023)
- Table 27. Global Carbon Composites Market Size (M USD) by Type (2018-2023)
- Table 28. Global Carbon Composites Market Size Share by Type (2018-2023)
- Table 29. Global Carbon Composites Price (USD/MT) by Type (2018-2023)
- Table 30. Global Carbon Composites Sales (K MT) by Application
- Table 31. Global Carbon Composites Market Size by Application
- Table 32. Global Carbon Composites Sales by Application (2018-2023) & (K MT)

Table 33. Global Carbon Composites Sales Market Share by Application (2018-2023)

Table 34. Global Carbon Composites Sales by Application (2018-2023) & (M USD)

Table 35. Global Carbon Composites Market Share by Application (2018-2023)

Table 36. Global Carbon Composites Sales Growth Rate by Application (2018-2023)

Table 37. Global Carbon Composites Sales by Region (2018-2023) & (K MT)

Table 38. Global Carbon Composites Sales Market Share by Region (2018-2023)

Table 39. North America Carbon Composites Sales by Country (2018-2023) & (K MT)

Table 40. Europe Carbon Composites Sales by Country (2018-2023) & (K MT)

Table 41. Asia Pacific Carbon Composites Sales by Region (2018-2023) & (K MT)

Table 42. South America Carbon Composites Sales by Country (2018-2023) & (K MT)

Table 43. Middle East and Africa Carbon Composites Sales by Region (2018-2023) & (K MT)

Table 44. Hexcel Carbon Composites Basic Information

Table 45. Hexcel Carbon Composites Product Overview

Table 46. Hexcel Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)

Table 47. Hexcel Business Overview

Table 48. Hexcel Carbon Composites SWOT Analysis

Table 49. Hexcel Recent Developments

Table 50. SGL Group Carbon Composites Basic Information

Table 51. SGL Group Carbon Composites Product Overview

Table 52. SGL Group Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)

Table 53. SGL Group Business Overview

Table 54. SGL Group Carbon Composites SWOT Analysis

Table 55. SGL Group Recent Developments

Table 56. Solvay Carbon Composites Basic Information

Table 57. Solvay Carbon Composites Product Overview

Table 58. Solvay Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)

Table 59. Solvay Business Overview

Table 60. Solvay Carbon Composites SWOT Analysis

Table 61. Solvay Recent Developments

Table 62. TEIJIN Carbon Composites Basic Information

Table 63. TEIJIN Carbon Composites Product Overview

Table 64. TEIJIN Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)

Table 65. TEIJIN Business Overview

Table 66. TEIJIN Carbon Composites SWOT Analysis

- Table 67. TEIJIN Recent Developments
- Table 68. Toray Industries Carbon Composites Basic Information
- Table 69. Toray Industries Carbon Composites Product Overview
- Table 70. Toray Industries Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 71. Toray Industries Business Overview
- Table 72. Toray Industries Carbon Composites SWOT Analysis
- Table 73. Toray Industries Recent Developments
- Table 74. Exel Group World Wide Carbon Composites Basic Information
- Table 75. Exel Group World Wide Carbon Composites Product Overview
- Table 76. Exel Group World Wide Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 77. Exel Group World Wide Business Overview
- Table 78. Exel Group World Wide Recent Developments
- Table 79. Gurit Carbon Composites Basic Information
- Table 80. Gurit Carbon Composites Product Overview
- Table 81. Gurit Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 82. Gurit Business Overview
- Table 83. Gurit Recent Developments
- Table 84. Innegra Technologies Carbon Composites Basic Information
- Table 85. Innegra Technologies Carbon Composites Product Overview
- Table 86. Innegra Technologies Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 87. Innegra Technologies Business Overview
- Table 88. Innegra Technologies Recent Developments
- Table 89. Koninklijke Ten Cate Carbon Composites Basic Information
- Table 90. Koninklijke Ten Cate Carbon Composites Product Overview
- Table 91. Koninklijke Ten Cate Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 92. Koninklijke Ten Cate Business Overview
- Table 93. Koninklijke Ten Cate Recent Developments
- Table 94. Mitsubishi Chemical Carbon Composites Basic Information
- Table 95. Mitsubishi Chemical Carbon Composites Product Overview
- Table 96. Mitsubishi Chemical Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 97. Mitsubishi Chemical Business Overview
- Table 98. Mitsubishi Chemical Recent Developments
- Table 99. METYX Composites Carbon Composites Basic Information

- Table 100. METYX Composites Carbon Composites Product Overview
- Table 101. METYX Composites Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 102. METYX Composites Business Overview
- Table 103. METYX Composites Recent Developments
- Table 104. Nippon Graphite Fiber Carbon Composites Basic Information
- Table 105. Nippon Graphite Fiber Carbon Composites Product Overview
- Table 106. Nippon Graphite Fiber Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 107. Nippon Graphite Fiber Business Overview
- Table 108. Nippon Graphite Fiber Recent Developments
- Table 109. PLASAN CARBON COMPOSITES Carbon Composites Basic Information
- Table 110. PLASAN CARBON COMPOSITES Carbon Composites Product Overview
- Table 111. PLASAN CARBON COMPOSITES Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 112. PLASAN CARBON COMPOSITES Business Overview
- Table 113. PLASAN CARBON COMPOSITES Recent Developments
- Table 114. SAERTEX Carbon Composites Basic Information
- Table 115. SAERTEX Carbon Composites Product Overview
- Table 116. SAERTEX Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 117. SAERTEX Business Overview
- Table 118. SAERTEX Recent Developments
- Table 119. Sigmatex Carbon Composites Basic Information
- Table 120. Sigmatex Carbon Composites Product Overview
- Table 121. Sigmatex Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 122. Sigmatex Business Overview
- Table 123. Sigmatex Recent Developments
- Table 124. TEI/TTC Carbon Composites Basic Information
- Table 125. TEI/TTC Carbon Composites Product Overview
- Table 126. TEI/TTC Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)
- Table 127. TEI/TTC Business Overview
- Table 128. TEI/TTC Recent Developments
- Table 129. TPI Composites Carbon Composites Basic Information
- Table 130. TPI Composites Carbon Composites Product Overview
- Table 131. TPI Composites Carbon Composites Sales (K MT), Revenue (M USD), Price (USD/MT) and Gross Margin (2018-2023)

Table 132. TPI Composites Business Overview

Table 133. TPI Composites Recent Developments

Table 134. Global Carbon Composites Sales Forecast by Region (2024-2029) & (K MT)

Table 135. Global Carbon Composites Market Size Forecast by Region (2024-2029) & (M USD)

Table 136. North America Carbon Composites Sales Forecast by Country (2024-2029) & (K MT)

Table 137. North America Carbon Composites Market Size Forecast by Country (2024-2029) & (M USD)

Table 138. Europe Carbon Composites Sales Forecast by Country (2024-2029) & (K MT)

Table 139. Europe Carbon Composites Market Size Forecast by Country (2024-2029) & (M USD)

Table 140. Asia Pacific Carbon Composites Sales Forecast by Region (2024-2029) & (K MT)

Table 141. Asia Pacific Carbon Composites Market Size Forecast by Region (2024-2029) & (M USD)

Table 142. South America Carbon Composites Sales Forecast by Country (2024-2029) & (K MT)

Table 143. South America Carbon Composites Market Size Forecast by Country (2024-2029) & (M USD)

Table 144. Middle East and Africa Carbon Composites Consumption Forecast by Country (2024-2029) & (Units)

Table 145. Middle East and Africa Carbon Composites Market Size Forecast by Country (2024-2029) & (M USD)

Table 146. Global Carbon Composites Sales Forecast by Type (2024-2029) & (K MT)

Table 147. Global Carbon Composites Market Size Forecast by Type (2024-2029) & (M USD)

Table 148. Global Carbon Composites Price Forecast by Type (2024-2029) & (USD/MT)

Table 149. Global Carbon Composites Sales (K MT) Forecast by Application (2024-2029)

Table 150. Global Carbon Composites Market Size Forecast by Application (2024-2029) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Carbon Composites
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Carbon Composites Market Size (M USD), 2018-2029
- Figure 5. Global Carbon Composites Market Size (M USD) (2018-2029)
- Figure 6. Global Carbon Composites Sales (K MT) & (2018-2029)
- 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. Carbon Composites Market Size by Country (M USD)
- Figure 11. Carbon Composites Sales Share by Manufacturers in 2022
- Figure 12. Global Carbon Composites Revenue Share by Manufacturers in 2022
- Figure 13. Carbon Composites Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2018 Vs 2022
- Figure 14. Global Market Carbon Composites Average Price (USD/MT) of Key Manufacturers in 2022
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Carbon Composites Revenue in 2022
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Carbon Composites Market Share by Type
- Figure 18. Sales Market Share of Carbon Composites by Type (2018-2023)
- Figure 19. Sales Market Share of Carbon Composites by Type in 2022
- Figure 20. Market Size Share of Carbon Composites by Type (2018-2023)
- Figure 21. Market Size Market Share of Carbon Composites by Type in 2022
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Carbon Composites Market Share by Application
- Figure 24. Global Carbon Composites Sales Market Share by Application (2018-2023)
- Figure 25. Global Carbon Composites Sales Market Share by Application in 2022
- Figure 26. Global Carbon Composites Market Share by Application (2018-2023)
- Figure 27. Global Carbon Composites Market Share by Application in 2022
- Figure 28. Global Carbon Composites Sales Growth Rate by Application (2018-2023)
- Figure 29. Global Carbon Composites Sales Market Share by Region (2018-2023)
- Figure 30. North America Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 31. North America Carbon Composites Sales Market Share by Country in 2022

- Figure 32. U.S. Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 33. Canada Carbon Composites Sales (K MT) and Growth Rate (2018-2023)
- Figure 34. Mexico Carbon Composites Sales (Units) and Growth Rate (2018-2023)
- Figure 35. Europe Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 36. Europe Carbon Composites Sales Market Share by Country in 2022
- Figure 37. Germany Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 38. France Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 39. U.K. Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 40. Italy Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 41. Russia Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 42. Asia Pacific Carbon Composites Sales and Growth Rate (K MT)
- Figure 43. Asia Pacific Carbon Composites Sales Market Share by Region in 2022
- Figure 44. China Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 45. Japan Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 46. South Korea Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 47. India Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 48. Southeast Asia Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 49. South America Carbon Composites Sales and Growth Rate (K MT)
- Figure 50. South America Carbon Composites Sales Market Share by Country in 2022
- Figure 51. Brazil Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 52. Argentina Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 53. Columbia Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 54. Middle East and Africa Carbon Composites Sales and Growth Rate (K MT)
- Figure 55. Middle East and Africa Carbon Composites Sales Market Share by Region in 2022
- Figure 56. Saudi Arabia Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 57. UAE Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 58. Egypt Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 59. Nigeria Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 60. South Africa Carbon Composites Sales and Growth Rate (2018-2023) & (K MT)
- Figure 61. Global Carbon Composites Sales Forecast by Volume (2018-2029) & (K MT)
- Figure 62. Global Carbon Composites Market Size Forecast by Value (2018-2029) & (M USD)
- Figure 63. Global Carbon Composites Sales Market Share Forecast by Type (2024-2029)

Figure 64. Global Carbon Composites Market Share Forecast by Type (2024-2029)

Figure 65. Global Carbon Composites Sales Forecast by Application (2024-2029)

Figure 66. Global Carbon Composites Market Share Forecast by Application
(2024-2029)

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