

Global Carbon Fiber Woven Fabric Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Carbon Fiber Woven Fabric market size was valued at US\$ 1858 million in 2023 and is forecast to a readjusted size of USD 3194 million by 2030 with a CAGR of 7.8% during review period.

Carbon fiber is a microcrystalline graphite fiber obtained by carbonization and graphitization of organic fibers (polyacrylonitrile fiber, pitch fiber, etc.). Carbon fiber fabric is one of its main application forms. Carbon fiber woven fabric has high tensile strength, low density, low weight, low thermal expansion and excellent fatigue resistance. It is generally bidirectional, with many different weaving methods, the most common are plain weave, twill weave and satin weave.

The growing demand for lightweight and high-strength materials across various industries, such as aerospace, automotive, and wind energy, is a primary driver for the carbon fiber woven fabric market. These fabrics are essential for manufacturing components that require superior strength-to-weight ratios, improving fuel efficiency in vehicles and performance in aircraft. Additionally, the increasing adoption of renewable energy sources has spurred the demand for carbon fiber in wind turbine blades, further propelling market growth.

Technological advancements in carbon fiber production, such as automated weaving and improved resin compatibility, are enhancing the material's properties and reducing production costs. Furthermore, the rising trend of electric vehicles (EVs) is driving the demand for carbon fiber woven fabrics in battery enclosures and structural components, as manufacturers seek materials that offer durability and energy efficiency.

High production costs remain a significant challenge for the carbon fiber woven fabric market. The expensive raw materials, energy-intensive manufacturing processes, and limited scalability of production hinder its adoption, particularly in cost-sensitive

industries. Additionally, competition from alternative materials, such as advanced composites and metals, poses a challenge in applications where cost outweighs performance benefits.

Environmental concerns related to the recycling and disposal of carbon fiber materials also impact market growth. The lack of efficient recycling technologies and the energy required for production raise sustainability issues. Moreover, supply chain constraints, including dependence on specialized raw materials like polyacrylonitrile (PAN), further exacerbate the challenges faced by manufacturers.

Toray is the top key manufacturer of carbon fiber woven fabric in the world, which accounts for nearly 25% market share. America is the largest consumption area of carbon fiber woven fabric in the world, which has a share over 35%. In terms of product, plain weave is the largest segment of carbon fiber woven fabric in the world, which accounts for over 60% market share. And in terms of application, aerospace & defense is the largest segment of application, which has a share nearly 35%.

This report is a detailed and comprehensive analysis for global Carbon Fiber Woven Fabric market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Carbon Fiber Woven Fabric market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2019-2030

Global Carbon Fiber Woven Fabric market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2019-2030

Global Carbon Fiber Woven Fabric market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2019-2030

Global Carbon Fiber Woven Fabric market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Carbon Fiber Woven Fabric

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon Fiber Woven Fabric market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Toray, Sigmalex, Chomarat, Mitsubishi Chemical, BGF Industries, SGL Carbon, Hexcel, Selcom, Gernitex, Weihai Guangwei, etc.

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

Market Segmentation

Carbon Fiber Woven Fabric market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Plain Weave
- Twill Weave
- Satin Weave

Market segment by Application

- Aerospace & Defense
- Automotive
- Wind Energy
- Sporting Goods
- Other

Major players covered

- Toray
- Sigmalex
- Chomarat
- Mitsubishi Chemical
- BGF Industries
- SGL Carbon
- Hexcel

- Selcom
- Gernitex
- Weihai Guangwei
- Shanghai Horse Construction
- Oxeon
- Formosa Taffeta
- Hyundai Fiber
- Hengshen
- Sinofibers Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Fiber Woven Fabric product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Fiber Woven Fabric, with price, sales quantity, revenue, and global market share of Carbon Fiber Woven Fabric from 2019 to 2024.

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

Chapter 4, the Carbon Fiber Woven Fabric breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Carbon Fiber Woven Fabric market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Fiber Woven Fabric.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Carbon Fiber Woven Fabric Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 Plain Weave

1.3.3 Twill Weave

1.3.4 Satin Weave

1.4 Market Analysis by Application

1.4.1 Overview: Global Carbon Fiber Woven Fabric Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Aerospace & Defense

1.4.3 Automotive

1.4.4 Wind Energy

1.4.5 Sporting Goods

1.4.6 Other

1.5 Global Carbon Fiber Woven Fabric Market Size & Forecast

1.5.1 Global Carbon Fiber Woven Fabric Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Carbon Fiber Woven Fabric Sales Quantity (2019-2030)

1.5.3 Global Carbon Fiber Woven Fabric Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 Toray

2.1.1 Toray Details

2.1.2 Toray Major Business

2.1.3 Toray Carbon Fiber Woven Fabric Product and Services

2.1.4 Toray Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Toray Recent Developments/Updates

2.2 Sigmatech

2.2.1 Sigmatech Details

2.2.2 Sigmatech Major Business

2.2.3 Sigmatech Carbon Fiber Woven Fabric Product and Services

2.2.4 Sigmatech Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2019-2024)

2.2.5 Sigmatex Recent Developments/Updates

2.3 Chomarat

2.3.1 Chomarat Details

2.3.2 Chomarat Major Business

2.3.3 Chomarat Carbon Fiber Woven Fabric Product and Services

2.3.4 Chomarat Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2019-2024)

2.3.5 Chomarat Recent Developments/Updates

2.4 Mitsubishi Chemical

2.4.1 Mitsubishi Chemical Details

2.4.2 Mitsubishi Chemical Major Business

2.4.3 Mitsubishi Chemical Carbon Fiber Woven Fabric Product and Services

2.4.4 Mitsubishi Chemical Carbon Fiber Woven Fabric Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Mitsubishi Chemical Recent Developments/Updates

2.5 BGF Industries

2.5.1 BGF Industries Details

2.5.2 BGF Industries Major Business

2.5.3 BGF Industries Carbon Fiber Woven Fabric Product and Services

2.5.4 BGF Industries Carbon Fiber Woven Fabric Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 BGF Industries Recent Developments/Updates

2.6 SGL Carbon

2.6.1 SGL Carbon Details

2.6.2 SGL Carbon Major Business

2.6.3 SGL Carbon Carbon Fiber Woven Fabric Product and Services

2.6.4 SGL Carbon Carbon Fiber Woven Fabric Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 SGL Carbon Recent Developments/Updates

2.7 Hexcel

2.7.1 Hexcel Details

2.7.2 Hexcel Major Business

2.7.3 Hexcel Carbon Fiber Woven Fabric Product and Services

2.7.4 Hexcel Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2019-2024)

2.7.5 Hexcel Recent Developments/Updates

2.8 Selcom

2.8.1 Selcom Details

- 2.8.2 Selcom Major Business
- 2.8.3 Selcom Carbon Fiber Woven Fabric Product and Services
- 2.8.4 Selcom Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 Selcom Recent Developments/Updates
- 2.9 Gernitex
 - 2.9.1 Gernitex Details
 - 2.9.2 Gernitex Major Business
 - 2.9.3 Gernitex Carbon Fiber Woven Fabric Product and Services
 - 2.9.4 Gernitex Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.9.5 Gernitex Recent Developments/Updates
- 2.10 Weihai Guangwei
 - 2.10.1 Weihai Guangwei Details
 - 2.10.2 Weihai Guangwei Major Business
 - 2.10.3 Weihai Guangwei Carbon Fiber Woven Fabric Product and Services
 - 2.10.4 Weihai Guangwei Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.10.5 Weihai Guangwei Recent Developments/Updates
- 2.11 Shanghai Horse Construction
 - 2.11.1 Shanghai Horse Construction Details
 - 2.11.2 Shanghai Horse Construction Major Business
 - 2.11.3 Shanghai Horse Construction Carbon Fiber Woven Fabric Product and Services
 - 2.11.4 Shanghai Horse Construction Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.11.5 Shanghai Horse Construction Recent Developments/Updates
- 2.12 Oxeon
 - 2.12.1 Oxeon Details
 - 2.12.2 Oxeon Major Business
 - 2.12.3 Oxeon Carbon Fiber Woven Fabric Product and Services
 - 2.12.4 Oxeon Carbon Fiber Woven Fabric Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.12.5 Oxeon Recent Developments/Updates
- 2.13 Formosa Taffeta
 - 2.13.1 Formosa Taffeta Details
 - 2.13.2 Formosa Taffeta Major Business
 - 2.13.3 Formosa Taffeta Carbon Fiber Woven Fabric Product and Services
 - 2.13.4 Formosa Taffeta Carbon Fiber Woven Fabric Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 Formosa Taffeta Recent Developments/Updates

2.14 Hyundai Fiber

2.14.1 Hyundai Fiber Details

2.14.2 Hyundai Fiber Major Business

2.14.3 Hyundai Fiber Carbon Fiber Woven Fabric Product and Services

2.14.4 Hyundai Fiber Carbon Fiber Woven Fabric Sales Quantity, Average Price,
Revenue, Gross Margin and Market Share (2019-2024)

2.14.5 Hyundai Fiber Recent Developments/Updates

2.15 Hengshen

2.15.1 Hengshen Details

2.15.2 Hengshen Major Business

2.15.3 Hengshen Carbon Fiber Woven Fabric Product and Services

2.15.4 Hengshen Carbon Fiber Woven Fabric Sales Quantity, Average Price,
Revenue, Gross Margin and Market Share (2019-2024)

2.15.5 Hengshen Recent Developments/Updates

2.16 Sinofibers Technology

2.16.1 Sinofibers Technology Details

2.16.2 Sinofibers Technology Major Business

2.16.3 Sinofibers Technology Carbon Fiber Woven Fabric Product and Services

2.16.4 Sinofibers Technology Carbon Fiber Woven Fabric Sales Quantity, Average
Price, Revenue, Gross Margin and Market Share (2019-2024)

2.16.5 Sinofibers Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: CARBON FIBER WOVEN FABRIC BY MANUFACTURER

3.1 Global Carbon Fiber Woven Fabric Sales Quantity by Manufacturer (2019-2024)

3.2 Global Carbon Fiber Woven Fabric Revenue by Manufacturer (2019-2024)

3.3 Global Carbon Fiber Woven Fabric Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Carbon Fiber Woven Fabric by Manufacturer Revenue
(\$MM) and Market Share (%): 2023

3.4.2 Top 3 Carbon Fiber Woven Fabric Manufacturer Market Share in 2023

3.4.3 Top 6 Carbon Fiber Woven Fabric Manufacturer Market Share in 2023

3.5 Carbon Fiber Woven Fabric Market: Overall Company Footprint Analysis

3.5.1 Carbon Fiber Woven Fabric Market: Region Footprint

3.5.2 Carbon Fiber Woven Fabric Market: Company Product Type Footprint

3.5.3 Carbon Fiber Woven Fabric Market: Company Product Application Footprint

- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Carbon Fiber Woven Fabric Market Size by Region
 - 4.1.1 Global Carbon Fiber Woven Fabric Sales Quantity by Region (2019-2030)
 - 4.1.2 Global Carbon Fiber Woven Fabric Consumption Value by Region (2019-2030)
 - 4.1.3 Global Carbon Fiber Woven Fabric Average Price by Region (2019-2030)
- 4.2 North America Carbon Fiber Woven Fabric Consumption Value (2019-2030)
- 4.3 Europe Carbon Fiber Woven Fabric Consumption Value (2019-2030)
- 4.4 Asia-Pacific Carbon Fiber Woven Fabric Consumption Value (2019-2030)
- 4.5 South America Carbon Fiber Woven Fabric Consumption Value (2019-2030)
- 4.6 Middle East & Africa Carbon Fiber Woven Fabric Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Carbon Fiber Woven Fabric Sales Quantity by Type (2019-2030)
- 5.2 Global Carbon Fiber Woven Fabric Consumption Value by Type (2019-2030)
- 5.3 Global Carbon Fiber Woven Fabric Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Carbon Fiber Woven Fabric Sales Quantity by Application (2019-2030)
- 6.2 Global Carbon Fiber Woven Fabric Consumption Value by Application (2019-2030)
- 6.3 Global Carbon Fiber Woven Fabric Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America Carbon Fiber Woven Fabric Sales Quantity by Type (2019-2030)
- 7.2 North America Carbon Fiber Woven Fabric Sales Quantity by Application (2019-2030)
- 7.3 North America Carbon Fiber Woven Fabric Market Size by Country
 - 7.3.1 North America Carbon Fiber Woven Fabric Sales Quantity by Country (2019-2030)
 - 7.3.2 North America Carbon Fiber Woven Fabric Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)
 - 7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Carbon Fiber Woven Fabric Sales Quantity by Type (2019-2030)

8.2 Europe Carbon Fiber Woven Fabric Sales Quantity by Application (2019-2030)

8.3 Europe Carbon Fiber Woven Fabric Market Size by Country

8.3.1 Europe Carbon Fiber Woven Fabric Sales Quantity by Country (2019-2030)

8.3.2 Europe Carbon Fiber Woven Fabric Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Carbon Fiber Woven Fabric Market Size by Region

9.3.1 Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Carbon Fiber Woven Fabric Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 South Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Carbon Fiber Woven Fabric Sales Quantity by Type (2019-2030)

10.2 South America Carbon Fiber Woven Fabric Sales Quantity by Application (2019-2030)

10.3 South America Carbon Fiber Woven Fabric Market Size by Country

10.3.1 South America Carbon Fiber Woven Fabric Sales Quantity by Country (2019-2030)

10.3.2 South America Carbon Fiber Woven Fabric Consumption Value by Country

(2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by Type
(2019-2030)

11.2 Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by Application
(2019-2030)

11.3 Middle East & Africa Carbon Fiber Woven Fabric Market Size by Country

11.3.1 Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by Country
(2019-2030)

11.3.2 Middle East & Africa Carbon Fiber Woven Fabric Consumption Value by
Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 Carbon Fiber Woven Fabric Market Drivers

12.2 Carbon Fiber Woven Fabric Market Restraints

12.3 Carbon Fiber Woven Fabric Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Carbon Fiber Woven Fabric and Key Manufacturers

13.2 Manufacturing Costs Percentage of Carbon Fiber Woven Fabric

13.3 Carbon Fiber Woven Fabric Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Carbon Fiber Woven Fabric Typical Distributors

14.3 Carbon Fiber Woven Fabric Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Carbon Fiber Woven Fabric Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Carbon Fiber Woven Fabric Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Toray Basic Information, Manufacturing Base and Competitors

Table 4. Toray Major Business

Table 5. Toray Carbon Fiber Woven Fabric Product and Services

Table 6. Toray Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Toray Recent Developments/Updates

Table 8. Sigmatex Basic Information, Manufacturing Base and Competitors

Table 9. Sigmatex Major Business

Table 10. Sigmatex Carbon Fiber Woven Fabric Product and Services

Table 11. Sigmatex Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Sigmatex Recent Developments/Updates

Table 13. Chomarat Basic Information, Manufacturing Base and Competitors

Table 14. Chomarat Major Business

Table 15. Chomarat Carbon Fiber Woven Fabric Product and Services

Table 16. Chomarat Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Chomarat Recent Developments/Updates

Table 18. Mitsubishi Chemical Basic Information, Manufacturing Base and Competitors

Table 19. Mitsubishi Chemical Major Business

Table 20. Mitsubishi Chemical Carbon Fiber Woven Fabric Product and Services

Table 21. Mitsubishi Chemical Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Mitsubishi Chemical Recent Developments/Updates

Table 23. BGF Industries Basic Information, Manufacturing Base and Competitors

Table 24. BGF Industries Major Business

Table 25. BGF Industries Carbon Fiber Woven Fabric Product and Services

Table 26. BGF Industries Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. BGF Industries Recent Developments/Updates

Table 28. SGL Carbon Basic Information, Manufacturing Base and Competitors

Table 29. SGL Carbon Major Business

Table 30. SGL Carbon Carbon Fiber Woven Fabric Product and Services

Table 31. SGL Carbon Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. SGL Carbon Recent Developments/Updates

Table 33. Hexcel Basic Information, Manufacturing Base and Competitors

Table 34. Hexcel Major Business

Table 35. Hexcel Carbon Fiber Woven Fabric Product and Services

Table 36. Hexcel Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Hexcel Recent Developments/Updates

Table 38. Selcom Basic Information, Manufacturing Base and Competitors

Table 39. Selcom Major Business

Table 40. Selcom Carbon Fiber Woven Fabric Product and Services

Table 41. Selcom Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Selcom Recent Developments/Updates

Table 43. Gernitex Basic Information, Manufacturing Base and Competitors

Table 44. Gernitex Major Business

Table 45. Gernitex Carbon Fiber Woven Fabric Product and Services

Table 46. Gernitex Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. Gernitex Recent Developments/Updates

Table 48. Weihai Guangwei Basic Information, Manufacturing Base and Competitors

Table 49. Weihai Guangwei Major Business

Table 50. Weihai Guangwei Carbon Fiber Woven Fabric Product and Services

Table 51. Weihai Guangwei Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Weihai Guangwei Recent Developments/Updates

Table 53. Shanghai Horse Construction Basic Information, Manufacturing Base and Competitors

Table 54. Shanghai Horse Construction Major Business

Table 55. Shanghai Horse Construction Carbon Fiber Woven Fabric Product and Services

Table 56. Shanghai Horse Construction Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Shanghai Horse Construction Recent Developments/Updates
Table 58. Oxeon Basic Information, Manufacturing Base and Competitors
Table 59. Oxeon Major Business
Table 60. Oxeon Carbon Fiber Woven Fabric Product and Services
Table 61. Oxeon Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 62. Oxeon Recent Developments/Updates
Table 63. Formosa Taffeta Basic Information, Manufacturing Base and Competitors
Table 64. Formosa Taffeta Major Business
Table 65. Formosa Taffeta Carbon Fiber Woven Fabric Product and Services
Table 66. Formosa Taffeta Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 67. Formosa Taffeta Recent Developments/Updates
Table 68. Hyundai Fiber Basic Information, Manufacturing Base and Competitors
Table 69. Hyundai Fiber Major Business
Table 70. Hyundai Fiber Carbon Fiber Woven Fabric Product and Services
Table 71. Hyundai Fiber Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 72. Hyundai Fiber Recent Developments/Updates
Table 73. Hengshen Basic Information, Manufacturing Base and Competitors
Table 74. Hengshen Major Business
Table 75. Hengshen Carbon Fiber Woven Fabric Product and Services
Table 76. Hengshen Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 77. Hengshen Recent Developments/Updates
Table 78. Sinofibers Technology Basic Information, Manufacturing Base and Competitors
Table 79. Sinofibers Technology Major Business
Table 80. Sinofibers Technology Carbon Fiber Woven Fabric Product and Services
Table 81. Sinofibers Technology Carbon Fiber Woven Fabric Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
Table 82. Sinofibers Technology Recent Developments/Updates
Table 83. Global Carbon Fiber Woven Fabric Sales Quantity by Manufacturer (2019-2024) & (Tons)
Table 84. Global Carbon Fiber Woven Fabric Revenue by Manufacturer (2019-2024) & (USD Million)
Table 85. Global Carbon Fiber Woven Fabric Average Price by Manufacturer (2019-2024) & (US\$/Ton)

Table 86. Market Position of Manufacturers in Carbon Fiber Woven Fabric, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2023

Table 87. Head Office and Carbon Fiber Woven Fabric Production Site of Key Manufacturer

Table 88. Carbon Fiber Woven Fabric Market: Company Product Type Footprint

Table 89. Carbon Fiber Woven Fabric Market: Company Product Application Footprint

Table 90. Carbon Fiber Woven Fabric New Market Entrants and Barriers to Market Entry

Table 91. Carbon Fiber Woven Fabric Mergers, Acquisition, Agreements, and Collaborations

Table 92. Global Carbon Fiber Woven Fabric Consumption Value by Region (2019-2023-2030) & (USD Million) & CAGR

Table 93. Global Carbon Fiber Woven Fabric Sales Quantity by Region (2019-2024) & (Tons)

Table 94. Global Carbon Fiber Woven Fabric Sales Quantity by Region (2025-2030) & (Tons)

Table 95. Global Carbon Fiber Woven Fabric Consumption Value by Region (2019-2024) & (USD Million)

Table 96. Global Carbon Fiber Woven Fabric Consumption Value by Region (2025-2030) & (USD Million)

Table 97. Global Carbon Fiber Woven Fabric Average Price by Region (2019-2024) & (US\$/Ton)

Table 98. Global Carbon Fiber Woven Fabric Average Price by Region (2025-2030) & (US\$/Ton)

Table 99. Global Carbon Fiber Woven Fabric Sales Quantity by Type (2019-2024) & (Tons)

Table 100. Global Carbon Fiber Woven Fabric Sales Quantity by Type (2025-2030) & (Tons)

Table 101. Global Carbon Fiber Woven Fabric Consumption Value by Type (2019-2024) & (USD Million)

Table 102. Global Carbon Fiber Woven Fabric Consumption Value by Type (2025-2030) & (USD Million)

Table 103. Global Carbon Fiber Woven Fabric Average Price by Type (2019-2024) & (US\$/Ton)

Table 104. Global Carbon Fiber Woven Fabric Average Price by Type (2025-2030) & (US\$/Ton)

Table 105. Global Carbon Fiber Woven Fabric Sales Quantity by Application (2019-2024) & (Tons)

Table 106. Global Carbon Fiber Woven Fabric Sales Quantity by Application

(2025-2030) & (Tons)

Table 107. Global Carbon Fiber Woven Fabric Consumption Value by Application
(2019-2024) & (USD Million)

Table 108. Global Carbon Fiber Woven Fabric Consumption Value by Application
(2025-2030) & (USD Million)

Table 109. Global Carbon Fiber Woven Fabric Average Price by Application
(2019-2024) & (US\$/Ton)

Table 110. Global Carbon Fiber Woven Fabric Average Price by Application
(2025-2030) & (US\$/Ton)

Table 111. North America Carbon Fiber Woven Fabric Sales Quantity by Type
(2019-2024) & (Tons)

Table 112. North America Carbon Fiber Woven Fabric Sales Quantity by Type
(2025-2030) & (Tons)

Table 113. North America Carbon Fiber Woven Fabric Sales Quantity by Application
(2019-2024) & (Tons)

Table 114. North America Carbon Fiber Woven Fabric Sales Quantity by Application
(2025-2030) & (Tons)

Table 115. North America Carbon Fiber Woven Fabric Sales Quantity by Country
(2019-2024) & (Tons)

Table 116. North America Carbon Fiber Woven Fabric Sales Quantity by Country
(2025-2030) & (Tons)

Table 117. North America Carbon Fiber Woven Fabric Consumption Value by Country
(2019-2024) & (USD Million)

Table 118. North America Carbon Fiber Woven Fabric Consumption Value by Country
(2025-2030) & (USD Million)

Table 119. Europe Carbon Fiber Woven Fabric Sales Quantity by Type (2019-2024) &
(Tons)

Table 120. Europe Carbon Fiber Woven Fabric Sales Quantity by Type (2025-2030) &
(Tons)

Table 121. Europe Carbon Fiber Woven Fabric Sales Quantity by Application
(2019-2024) & (Tons)

Table 122. Europe Carbon Fiber Woven Fabric Sales Quantity by Application
(2025-2030) & (Tons)

Table 123. Europe Carbon Fiber Woven Fabric Sales Quantity by Country (2019-2024)
& (Tons)

Table 124. Europe Carbon Fiber Woven Fabric Sales Quantity by Country (2025-2030)
& (Tons)

Table 125. Europe Carbon Fiber Woven Fabric Consumption Value by Country
(2019-2024) & (USD Million)

Table 126. Europe Carbon Fiber Woven Fabric Consumption Value by Country
(2025-2030) & (USD Million)

Table 127. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Type
(2019-2024) & (Tons)

Table 128. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Type
(2025-2030) & (Tons)

Table 129. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Application
(2019-2024) & (Tons)

Table 130. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Application
(2025-2030) & (Tons)

Table 131. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Region
(2019-2024) & (Tons)

Table 132. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity by Region
(2025-2030) & (Tons)

Table 133. Asia-Pacific Carbon Fiber Woven Fabric Consumption Value by Region
(2019-2024) & (USD Million)

Table 134. Asia-Pacific Carbon Fiber Woven Fabric Consumption Value by Region
(2025-2030) & (USD Million)

Table 135. South America Carbon Fiber Woven Fabric Sales Quantity by Type
(2019-2024) & (Tons)

Table 136. South America Carbon Fiber Woven Fabric Sales Quantity by Type
(2025-2030) & (Tons)

Table 137. South America Carbon Fiber Woven Fabric Sales Quantity by Application
(2019-2024) & (Tons)

Table 138. South America Carbon Fiber Woven Fabric Sales Quantity by Application
(2025-2030) & (Tons)

Table 139. South America Carbon Fiber Woven Fabric Sales Quantity by Country
(2019-2024) & (Tons)

Table 140. South America Carbon Fiber Woven Fabric Sales Quantity by Country
(2025-2030) & (Tons)

Table 141. South America Carbon Fiber Woven Fabric Consumption Value by Country
(2019-2024) & (USD Million)

Table 142. South America Carbon Fiber Woven Fabric Consumption Value by Country
(2025-2030) & (USD Million)

Table 143. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by Type
(2019-2024) & (Tons)

Table 144. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by Type
(2025-2030) & (Tons)

Table 145. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by

Application (2019-2024) & (Tons)

Table 146. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by

Application (2025-2030) & (Tons)

Table 147. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by Country
(2019-2024) & (Tons)

Table 148. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity by Country
(2025-2030) & (Tons)

Table 149. Middle East & Africa Carbon Fiber Woven Fabric Consumption Value by
Country (2019-2024) & (USD Million)

Table 150. Middle East & Africa Carbon Fiber Woven Fabric Consumption Value by
Country (2025-2030) & (USD Million)

Table 151. Carbon Fiber Woven Fabric Raw Material

Table 152. Key Manufacturers of Carbon Fiber Woven Fabric Raw Materials

Table 153. Carbon Fiber Woven Fabric Typical Distributors

Table 154. Carbon Fiber Woven Fabric Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Carbon Fiber Woven Fabric Picture

Figure 2. Global Carbon Fiber Woven Fabric Revenue by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Carbon Fiber Woven Fabric Revenue Market Share by Type in 2023

Figure 4. Plain Weave Examples

Figure 5. Twill Weave Examples

Figure 6. Satin Weave Examples

Figure 7. Global Carbon Fiber Woven Fabric Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Carbon Fiber Woven Fabric Revenue Market Share by Application in 2023

Figure 9. Aerospace & Defense Examples

Figure 10. Automotive Examples

Figure 11. Wind Energy Examples

Figure 12. Sporting Goods Examples

Figure 13. Other Examples

Figure 14. Global Carbon Fiber Woven Fabric Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 15. Global Carbon Fiber Woven Fabric Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 16. Global Carbon Fiber Woven Fabric Sales Quantity (2019-2030) & (Tons)

Figure 17. Global Carbon Fiber Woven Fabric Price (2019-2030) & (US\$/Ton)

Figure 18. Global Carbon Fiber Woven Fabric Sales Quantity Market Share by Manufacturer in 2023

Figure 19. Global Carbon Fiber Woven Fabric Revenue Market Share by Manufacturer in 2023

Figure 20. Producer Shipments of Carbon Fiber Woven Fabric by Manufacturer Sales (\$MM) and Market Share (%): 2023

Figure 21. Top 3 Carbon Fiber Woven Fabric Manufacturer (Revenue) Market Share in 2023

Figure 22. Top 6 Carbon Fiber Woven Fabric Manufacturer (Revenue) Market Share in 2023

Figure 23. Global Carbon Fiber Woven Fabric Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global Carbon Fiber Woven Fabric Consumption Value Market Share by

Region (2019-2030)

Figure 25. North America Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 28. South America Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 30. Global Carbon Fiber Woven Fabric Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global Carbon Fiber Woven Fabric Consumption Value Market Share by Type (2019-2030)

Figure 32. Global Carbon Fiber Woven Fabric Average Price by Type (2019-2030) & (US\$/Ton)

Figure 33. Global Carbon Fiber Woven Fabric Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global Carbon Fiber Woven Fabric Revenue Market Share by Application (2019-2030)

Figure 35. Global Carbon Fiber Woven Fabric Average Price by Application (2019-2030) & (US\$/Ton)

Figure 36. North America Carbon Fiber Woven Fabric Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America Carbon Fiber Woven Fabric Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America Carbon Fiber Woven Fabric Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America Carbon Fiber Woven Fabric Consumption Value Market Share by Country (2019-2030)

Figure 40. United States Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 41. Canada Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 42. Mexico Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 43. Europe Carbon Fiber Woven Fabric Sales Quantity Market Share by Type (2019-2030)

Figure 44. Europe Carbon Fiber Woven Fabric Sales Quantity Market Share by Application (2019-2030)

Figure 45. Europe Carbon Fiber Woven Fabric Sales Quantity Market Share by Country (2019-2030)

Figure 46. Europe Carbon Fiber Woven Fabric Consumption Value Market Share by Country (2019-2030)

Figure 47. Germany Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 48. France Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 49. United Kingdom Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 50. Russia Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 51. Italy Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 52. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity Market Share by Type (2019-2030)

Figure 53. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity Market Share by Application (2019-2030)

Figure 54. Asia-Pacific Carbon Fiber Woven Fabric Sales Quantity Market Share by Region (2019-2030)

Figure 55. Asia-Pacific Carbon Fiber Woven Fabric Consumption Value Market Share by Region (2019-2030)

Figure 56. China Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 57. Japan Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 58. South Korea Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 59. India Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 60. Southeast Asia Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 61. Australia Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 62. South America Carbon Fiber Woven Fabric Sales Quantity Market Share by Type (2019-2030)

Figure 63. South America Carbon Fiber Woven Fabric Sales Quantity Market Share by

Application (2019-2030)

Figure 64. South America Carbon Fiber Woven Fabric Sales Quantity Market Share by Country (2019-2030)

Figure 65. South America Carbon Fiber Woven Fabric Consumption Value Market Share by Country (2019-2030)

Figure 66. Brazil Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 67. Argentina Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 68. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity Market Share by Type (2019-2030)

Figure 69. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity Market Share by Application (2019-2030)

Figure 70. Middle East & Africa Carbon Fiber Woven Fabric Sales Quantity Market Share by Country (2019-2030)

Figure 71. Middle East & Africa Carbon Fiber Woven Fabric Consumption Value Market Share by Country (2019-2030)

Figure 72. Turkey Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 73. Egypt Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 74. Saudi Arabia Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 75. South Africa Carbon Fiber Woven Fabric Consumption Value (2019-2030) & (USD Million)

Figure 76. Carbon Fiber Woven Fabric Market Drivers

Figure 77. Carbon Fiber Woven Fabric Market Restraints

Figure 78. Carbon Fiber Woven Fabric Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Carbon Fiber Woven Fabric in 2023

Figure 81. Manufacturing Process Analysis of Carbon Fiber Woven Fabric

Figure 82. Carbon Fiber Woven Fabric Industrial Chain

Figure 83. Sales Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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