

Global Carbon Fiber Multi-Axial Fabric Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Multi-Axial Fabric market size is expected to reach \$ 1258 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Carbon fiber multi-axial fabric is a non-crimp reinforcement fabric formed by laying continuous carbon fiber tows in multiple directions?such as 0°, 90°, and ±45°?and securing them via warp knitting, stitch bonding, or adhesive bonding. Characterized by high fiber straightness and customizable load-bearing orientation, these fabrics offer high strength, high modulus, lightweight properties, and resistance to both fatigue and corrosion.

Upstream components include PAN-based carbon fiber precursor, carbon fiber tows, stitching threads, sizing agents, warp-knitting equipment, and testing equipment. Downstream applications span wind turbine blades, aerospace, automotive lightweighting, marine vessels, rail transportation, pressure vessels, sports equipment, and structural reinforcement in construction.

The global market for carbon fiber multi-axial fabric features a unit price of \$35,000 per ton, with a sales volume of approximately 24,000 tons, an annual production capacity of 32,000-45,000 tons, and an industry profit margin of around 18%.

The global multiaxial carbon fiber fabric market is poised for continued growth, driven by the demand for lightweighting in high-end composite materials. Trends such as the scaling up of wind turbine blades, weight reduction in aerospace structural components, and lightweighting of new energy vehicle bodies and battery enclosures will boost demand for high-performance carbon fiber reinforced fabrics. Compared to traditional

woven carbon fabrics, multiaxial fabrics allow for design optimization based on load direction, offer high molding efficiency, and provide stable mechanical properties. Future development will focus on greater fabric widths, automated layup processes, the use of low-cost large-tow carbon fibers, compatibility with thermoplastic resins, and the adoption of recyclable composites. Meanwhile, the expansion of domestic carbon fiber production capacity is expected to drive down prices, facilitating broader application across industrial sectors.

This report studies the global Carbon Fiber Multi-Axial Fabric production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Multi-Axial Fabric and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fiber Multi-Axial Fabric that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Multi-Axial Fabric total production and demand, 2021-2032, (Tons)

Global Carbon Fiber Multi-Axial Fabric total production value, 2021-2032, (USD Million)

Global Carbon Fiber Multi-Axial Fabric production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Carbon Fiber Multi-Axial Fabric consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Carbon Fiber Multi-Axial Fabric domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Multi-Axial Fabric production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Carbon Fiber Multi-Axial Fabric production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Carbon Fiber Multi-Axial Fabric production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbon Fiber Multi-Axial Fabric market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SAERTEX, Chomarat, SGL Carbon, Hexcel, Owens Corning, Vectorply, Sigmalex, Vitruvan, Toray, Teijin, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Fiber Multi-Axial Fabric market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fiber Multi-Axial Fabric Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Multi-Axial Fabric Market, Segmentation by Type:

Biaxial Carbon Fiber Fabric

Triaxial Carbon Fiber Fabric

Quadraxial Carbon Fiber Fabric

Multiaxial Unidirectional Carbon Fiber Fabric

Hybrid Multiaxial Carbon Fiber Fabric

Global Carbon Fiber Multi-Axial Fabric Market, Segmentation by Fiber Orientation:

0° Carbon Fiber Fabric

90° Carbon Fiber Fabric

+45°/-45° Carbon Fiber Fabric

0°/90° Carbon Fiber Fabric

0°/+45°/-45° Carbon Fiber Fabric

0°/90°/+45°/-45° Carbon Fiber Fabric

Global Carbon Fiber Multi-Axial Fabric Market, Segmentation by Areal Weight:

Lightweight Carbon Fiber Fabric

Medium-weight Carbon Fiber Fabric

Heavyweight Carbon Fiber Fabric

Ultra-heavyweight Carbon Fiber Fabric

Global Carbon Fiber Multi-Axial Fabric Market, Segmentation by Application:

Wind Blade

Marine

Automotive

Aerospace

Construction Reinforcement

Sports Equipment

Companies Profiled:

SAERTEX

Chomarat

SGL Carbon

Hexcel

Owens Corning

Vectorply

Sigmatex

Vitrulan

Toray

Teijin

Nittobo

China Jushi

Taishan Fiberglass

CPIC

PGTEX

Jiangsu Hengshen

Guangwei Composites

Sinomatech

Feilihua

Key Questions Answered:

1. How big is the global Carbon Fiber Multi-Axial Fabric market?
2. What is the demand of the global Carbon Fiber Multi-Axial Fabric market?
3. What is the year over year growth of the global Carbon Fiber Multi-Axial Fabric market?
4. What is the production and production value of the global Carbon Fiber Multi-Axial Fabric market?
5. Who are the key producers in the global Carbon Fiber Multi-Axial Fabric market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Carbon Fiber Multi-Axial Fabric Introduction
- 1.2 World Carbon Fiber Multi-Axial Fabric Supply & Forecast
 - 1.2.1 World Carbon Fiber Multi-Axial Fabric Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Carbon Fiber Multi-Axial Fabric Production (2021-2032)
 - 1.2.3 World Carbon Fiber Multi-Axial Fabric Pricing Trends (2021-2032)
- 1.3 World Carbon Fiber Multi-Axial Fabric Production by Region (Based on Production Site)
 - 1.3.1 World Carbon Fiber Multi-Axial Fabric Production Value by Region (2021-2032)
 - 1.3.2 World Carbon Fiber Multi-Axial Fabric Production by Region (2021-2032)
 - 1.3.3 World Carbon Fiber Multi-Axial Fabric Average Price by Region (2021-2032)
 - 1.3.4 North America Carbon Fiber Multi-Axial Fabric Production (2021-2032)
 - 1.3.5 Europe Carbon Fiber Multi-Axial Fabric Production (2021-2032)
 - 1.3.6 China Carbon Fiber Multi-Axial Fabric Production (2021-2032)
 - 1.3.7 Japan Carbon Fiber Multi-Axial Fabric Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Carbon Fiber Multi-Axial Fabric Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Carbon Fiber Multi-Axial Fabric Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Carbon Fiber Multi-Axial Fabric Demand (2021-2032)
- 2.2 World Carbon Fiber Multi-Axial Fabric Consumption by Region
 - 2.2.1 World Carbon Fiber Multi-Axial Fabric Consumption by Region (2021-2026)
 - 2.2.2 World Carbon Fiber Multi-Axial Fabric Consumption Forecast by Region (2027-2032)
- 2.3 United States Carbon Fiber Multi-Axial Fabric Consumption (2021-2032)
- 2.4 China Carbon Fiber Multi-Axial Fabric Consumption (2021-2032)
- 2.5 Europe Carbon Fiber Multi-Axial Fabric Consumption (2021-2032)
- 2.6 Japan Carbon Fiber Multi-Axial Fabric Consumption (2021-2032)
- 2.7 South Korea Carbon Fiber Multi-Axial Fabric Consumption (2021-2032)
- 2.8 ASEAN Carbon Fiber Multi-Axial Fabric Consumption (2021-2032)
- 2.9 India Carbon Fiber Multi-Axial Fabric Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Carbon Fiber Multi-Axial Fabric Production Value by Manufacturer (2021-2026)
- 3.2 World Carbon Fiber Multi-Axial Fabric Production by Manufacturer (2021-2026)
- 3.3 World Carbon Fiber Multi-Axial Fabric Average Price by Manufacturer (2021-2026)
- 3.4 Carbon Fiber Multi-Axial Fabric Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Carbon Fiber Multi-Axial Fabric Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Carbon Fiber Multi-Axial Fabric in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Carbon Fiber Multi-Axial Fabric in 2025
- 3.6 Carbon Fiber Multi-Axial Fabric Market: Overall Company Footprint Analysis
 - 3.6.1 Carbon Fiber Multi-Axial Fabric Market: Region Footprint
 - 3.6.2 Carbon Fiber Multi-Axial Fabric Market: Company Product Type Footprint
 - 3.6.3 Carbon Fiber Multi-Axial Fabric Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Carbon Fiber Multi-Axial Fabric Production Value Comparison
 - 4.1.1 United States VS China: Carbon Fiber Multi-Axial Fabric Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Carbon Fiber Multi-Axial Fabric Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Carbon Fiber Multi-Axial Fabric Production Comparison
 - 4.2.1 United States VS China: Carbon Fiber Multi-Axial Fabric Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Carbon Fiber Multi-Axial Fabric Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Carbon Fiber Multi-Axial Fabric Consumption Comparison
 - 4.3.1 United States VS China: Carbon Fiber Multi-Axial Fabric Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Carbon Fiber Multi-Axial Fabric Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Carbon Fiber Multi-Axial Fabric Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Carbon Fiber Multi-Axial Fabric Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value (2021-2026)

4.4.3 United States Based Manufacturers Carbon Fiber Multi-Axial Fabric Production (2021-2026)

4.5 China Based Carbon Fiber Multi-Axial Fabric Manufacturers and Market Share

4.5.1 China Based Carbon Fiber Multi-Axial Fabric Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value (2021-2026)

4.5.3 China Based Manufacturers Carbon Fiber Multi-Axial Fabric Production (2021-2026)

4.6 Rest of World Based Carbon Fiber Multi-Axial Fabric Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Carbon Fiber Multi-Axial Fabric Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Carbon Fiber Multi-Axial Fabric Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Carbon Fiber Multi-Axial Fabric Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Biaxial Carbon Fiber Fabric

5.2.2 Triaxial Carbon Fiber Fabric

5.2.3 Quadraxial Carbon Fiber Fabric

5.2.4 Multiaxial Unidirectional Carbon Fiber Fabric

5.2.5 Hybrid Multiaxial Carbon Fiber Fabric

5.3 Market Segment by Type

5.3.1 World Carbon Fiber Multi-Axial Fabric Production by Type (2021-2032)

5.3.2 World Carbon Fiber Multi-Axial Fabric Production Value by Type (2021-2032)

5.3.3 World Carbon Fiber Multi-Axial Fabric Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FIBER ORIENTATION

6.1 World Carbon Fiber Multi-Axial Fabric Market Size Overview by Fiber Orientation: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Fiber Orientation

6.2.1 0° Carbon Fiber Fabric

6.2.2 90° Carbon Fiber Fabric

6.2.3 +45°/-45° Carbon Fiber Fabric

6.2.4 0°/90° Carbon Fiber Fabric

6.2.5 0°/+45°/-45° Carbon Fiber Fabric

6.2.6 0°/90°/+45°/-45° Carbon Fiber Fabric

6.3 Market Segment by Fiber Orientation

6.3.1 World Carbon Fiber Multi-Axial Fabric Production by Fiber Orientation (2021-2032)

6.3.2 World Carbon Fiber Multi-Axial Fabric Production Value by Fiber Orientation (2021-2032)

6.3.3 World Carbon Fiber Multi-Axial Fabric Average Price by Fiber Orientation (2021-2032)

7 MARKET ANALYSIS BY AREAL WEIGHT

7.1 World Carbon Fiber Multi-Axial Fabric Market Size Overview by Areal Weight: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Areal Weight

7.2.1 Lightweight Carbon Fiber Fabric

7.2.2 Medium-weight Carbon Fiber Fabric

7.2.3 Heavyweight Carbon Fiber Fabric

7.2.4 Ultra-heavyweight Carbon Fiber Fabric

7.3 Market Segment by Areal Weight

7.3.1 World Carbon Fiber Multi-Axial Fabric Production by Areal Weight (2021-2032)

7.3.2 World Carbon Fiber Multi-Axial Fabric Production Value by Areal Weight (2021-2032)

7.3.3 World Carbon Fiber Multi-Axial Fabric Average Price by Areal Weight (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Carbon Fiber Multi-Axial Fabric Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Wind Blade

8.2.2 Marine

8.2.3 Automotive

8.2.4 Aerospace

8.2.5 Construction Reinforcement

8.2.6 Sports Equipment

8.3 Market Segment by Application

8.3.1 World Carbon Fiber Multi-Axial Fabric Production by Application (2021-2032)

8.3.2 World Carbon Fiber Multi-Axial Fabric Production Value by Application (2021-2032)

8.3.3 World Carbon Fiber Multi-Axial Fabric Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 SAERTEX

9.1.1 SAERTEX Details

9.1.2 SAERTEX Major Business

9.1.3 SAERTEX Carbon Fiber Multi-Axial Fabric Product and Services

9.1.4 SAERTEX Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 SAERTEX Recent Developments/Updates

9.1.6 SAERTEX Competitive Strengths & Weaknesses

9.2 Chomarat

9.2.1 Chomarat Details

9.2.2 Chomarat Major Business

9.2.3 Chomarat Carbon Fiber Multi-Axial Fabric Product and Services

9.2.4 Chomarat Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Chomarat Recent Developments/Updates

9.2.6 Chomarat Competitive Strengths & Weaknesses

9.3 SGL Carbon

9.3.1 SGL Carbon Details

9.3.2 SGL Carbon Major Business

9.3.3 SGL Carbon Carbon Fiber Multi-Axial Fabric Product and Services

9.3.4 SGL Carbon Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 SGL Carbon Recent Developments/Updates

9.3.6 SGL Carbon Competitive Strengths & Weaknesses

9.4 Hexcel

9.4.1 Hexcel Details

9.4.2 Hexcel Major Business

9.4.3 Hexcel Carbon Fiber Multi-Axial Fabric Product and Services

9.4.4 Hexcel Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Hexcel Recent Developments/Updates

9.4.6 Hexcel Competitive Strengths & Weaknesses

9.5 Owens Corning

9.5.1 Owens Corning Details

9.5.2 Owens Corning Major Business

9.5.3 Owens Corning Carbon Fiber Multi-Axial Fabric Product and Services

9.5.4 Owens Corning Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Owens Corning Recent Developments/Updates

9.5.6 Owens Corning Competitive Strengths & Weaknesses

9.6 Vectorply

9.6.1 Vectorply Details

9.6.2 Vectorply Major Business

9.6.3 Vectorply Carbon Fiber Multi-Axial Fabric Product and Services

9.6.4 Vectorply Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Vectorply Recent Developments/Updates

9.6.6 Vectorply Competitive Strengths & Weaknesses

9.7 Sigmalex

9.7.1 Sigmalex Details

9.7.2 Sigmalex Major Business

9.7.3 Sigmalex Carbon Fiber Multi-Axial Fabric Product and Services

9.7.4 Sigmalex Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Sigmalex Recent Developments/Updates

9.7.6 Sigmalex Competitive Strengths & Weaknesses

9.8 Vitrulan

9.8.1 Vitrulan Details

9.8.2 Vitrulan Major Business

9.8.3 Vitrulan Carbon Fiber Multi-Axial Fabric Product and Services

9.8.4 Vitrulan Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Vitrulan Recent Developments/Updates

9.8.6 Vitrulan Competitive Strengths & Weaknesses

9.9 Toray

9.9.1 Toray Details

9.9.2 Toray Major Business

9.9.3 Toray Carbon Fiber Multi-Axial Fabric Product and Services

9.9.4 Toray Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Toray Recent Developments/Updates

9.9.6 Toray Competitive Strengths & Weaknesses

9.10 Teijin

9.10.1 Teijin Details

9.10.2 Teijin Major Business

9.10.3 Teijin Carbon Fiber Multi-Axial Fabric Product and Services

9.10.4 Teijin Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Teijin Recent Developments/Updates

9.10.6 Teijin Competitive Strengths & Weaknesses

9.11 Nittobo

9.11.1 Nittobo Details

9.11.2 Nittobo Major Business

9.11.3 Nittobo Carbon Fiber Multi-Axial Fabric Product and Services

9.11.4 Nittobo Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Nittobo Recent Developments/Updates

9.11.6 Nittobo Competitive Strengths & Weaknesses

9.12 China Jushi

9.12.1 China Jushi Details

9.12.2 China Jushi Major Business

9.12.3 China Jushi Carbon Fiber Multi-Axial Fabric Product and Services

9.12.4 China Jushi Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 China Jushi Recent Developments/Updates

9.12.6 China Jushi Competitive Strengths & Weaknesses

9.13 Taishan Fiberglass

9.13.1 Taishan Fiberglass Details

9.13.2 Taishan Fiberglass Major Business

9.13.3 Taishan Fiberglass Carbon Fiber Multi-Axial Fabric Product and Services

9.13.4 Taishan Fiberglass Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.13.5 Taishan Fiberglass Recent Developments/Updates
- 9.13.6 Taishan Fiberglass Competitive Strengths & Weaknesses
- 9.14 CPIC
 - 9.14.1 CPIC Details
 - 9.14.2 CPIC Major Business
 - 9.14.3 CPIC Carbon Fiber Multi-Axial Fabric Product and Services
 - 9.14.4 CPIC Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 CPIC Recent Developments/Updates
 - 9.14.6 CPIC Competitive Strengths & Weaknesses
- 9.15 PGTEX
 - 9.15.1 PGTEX Details
 - 9.15.2 PGTEX Major Business
 - 9.15.3 PGTEX Carbon Fiber Multi-Axial Fabric Product and Services
 - 9.15.4 PGTEX Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 PGTEX Recent Developments/Updates
 - 9.15.6 PGTEX Competitive Strengths & Weaknesses
- 9.16 Jiangsu Hengshen
 - 9.16.1 Jiangsu Hengshen Details
 - 9.16.2 Jiangsu Hengshen Major Business
 - 9.16.3 Jiangsu Hengshen Carbon Fiber Multi-Axial Fabric Product and Services
 - 9.16.4 Jiangsu Hengshen Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Jiangsu Hengshen Recent Developments/Updates
 - 9.16.6 Jiangsu Hengshen Competitive Strengths & Weaknesses
- 9.17 Guangwei Composites
 - 9.17.1 Guangwei Composites Details
 - 9.17.2 Guangwei Composites Major Business
 - 9.17.3 Guangwei Composites Carbon Fiber Multi-Axial Fabric Product and Services
 - 9.17.4 Guangwei Composites Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Guangwei Composites Recent Developments/Updates
 - 9.17.6 Guangwei Composites Competitive Strengths & Weaknesses
- 9.18 Sinomatech
 - 9.18.1 Sinomatech Details
 - 9.18.2 Sinomatech Major Business
 - 9.18.3 Sinomatech Carbon Fiber Multi-Axial Fabric Product and Services
 - 9.18.4 Sinomatech Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.18.5 Sinomatech Recent Developments/Updates

9.18.6 Sinomatech Competitive Strengths & Weaknesses

9.19 Feilihua

9.19.1 Feilihua Details

9.19.2 Feilihua Major Business

9.19.3 Feilihua Carbon Fiber Multi-Axial Fabric Product and Services

9.19.4 Feilihua Carbon Fiber Multi-Axial Fabric Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Feilihua Recent Developments/Updates

9.19.6 Feilihua Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Carbon Fiber Multi-Axial Fabric Industry Chain

10.2 Carbon Fiber Multi-Axial Fabric Upstream Analysis

10.2.1 Carbon Fiber Multi-Axial Fabric Core Raw Materials

10.2.2 Main Manufacturers of Carbon Fiber Multi-Axial Fabric Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Carbon Fiber Multi-Axial Fabric Production Mode

10.6 Carbon Fiber Multi-Axial Fabric Procurement Model

10.7 Carbon Fiber Multi-Axial Fabric Industry Sales Model and Sales Channels

10.7.1 Carbon Fiber Multi-Axial Fabric Sales Model

10.7.2 Carbon Fiber Multi-Axial Fabric Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Carbon Fiber Multi-Axial Fabric Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Carbon Fiber Multi-Axial Fabric Production Value by Region (2021-2026) & (USD Million)

Table 3. World Carbon Fiber Multi-Axial Fabric Production Value by Region (2027-2032) & (USD Million)

Table 4. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Region (2021-2026)

Table 5. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Region (2027-2032)

Table 6. World Carbon Fiber Multi-Axial Fabric Production by Region (2021-2026) & (Tons)

Table 7. World Carbon Fiber Multi-Axial Fabric Production by Region (2027-2032) & (Tons)

Table 8. World Carbon Fiber Multi-Axial Fabric Production Market Share by Region (2021-2026)

Table 9. World Carbon Fiber Multi-Axial Fabric Production Market Share by Region (2027-2032)

Table 10. World Carbon Fiber Multi-Axial Fabric Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Carbon Fiber Multi-Axial Fabric Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Carbon Fiber Multi-Axial Fabric Major Market Trends

Table 13. World Carbon Fiber Multi-Axial Fabric Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Carbon Fiber Multi-Axial Fabric Consumption by Region (2021-2026) & (Tons)

Table 15. World Carbon Fiber Multi-Axial Fabric Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Carbon Fiber Multi-Axial Fabric Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Carbon Fiber Multi-Axial Fabric Producers in 2025

Table 18. World Carbon Fiber Multi-Axial Fabric Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Carbon Fiber Multi-Axial Fabric Producers in 2025

Table 20. World Carbon Fiber Multi-Axial Fabric Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Carbon Fiber Multi-Axial Fabric Company Evaluation Quadrant

Table 22. World Carbon Fiber Multi-Axial Fabric Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Carbon Fiber Multi-Axial Fabric Production Site of Key Manufacturer

Table 24. Carbon Fiber Multi-Axial Fabric Market: Company Product Type Footprint

Table 25. Carbon Fiber Multi-Axial Fabric Market: Company Product Application Footprint

Table 26. Carbon Fiber Multi-Axial Fabric Competitive Factors

Table 27. Carbon Fiber Multi-Axial Fabric New Entrant and Capacity Expansion Plans

Table 28. Carbon Fiber Multi-Axial Fabric Mergers & Acquisitions Activity

Table 29. United States VS China Carbon Fiber Multi-Axial Fabric Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Carbon Fiber Multi-Axial Fabric Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Carbon Fiber Multi-Axial Fabric Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Carbon Fiber Multi-Axial Fabric Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Carbon Fiber Multi-Axial Fabric Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Market Share (2021-2026)

Table 37. China Based Carbon Fiber Multi-Axial Fabric Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Carbon Fiber Multi-Axial Fabric Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Market Share (2021-2026)

Table 42. Rest of World Based Carbon Fiber Multi-Axial Fabric Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Carbon Fiber Multi-Axial Fabric Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Market Share (2021-2026)

Table 47. World Carbon Fiber Multi-Axial Fabric Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Carbon Fiber Multi-Axial Fabric Production by Type (2021-2026) & (Tons)

Table 49. World Carbon Fiber Multi-Axial Fabric Production by Type (2027-2032) & (Tons)

Table 50. World Carbon Fiber Multi-Axial Fabric Production Value by Type (2021-2026) & (USD Million)

Table 51. World Carbon Fiber Multi-Axial Fabric Production Value by Type (2027-2032) & (USD Million)

Table 52. World Carbon Fiber Multi-Axial Fabric Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Carbon Fiber Multi-Axial Fabric Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Carbon Fiber Multi-Axial Fabric Production Value by Fiber Orientation, (USD Million), 2021 & 2025 & 2032

Table 55. World Carbon Fiber Multi-Axial Fabric Production by Fiber Orientation (2021-2026) & (Tons)

Table 56. World Carbon Fiber Multi-Axial Fabric Production by Fiber Orientation (2027-2032) & (Tons)

Table 57. World Carbon Fiber Multi-Axial Fabric Production Value by Fiber Orientation (2021-2026) & (USD Million)

Table 58. World Carbon Fiber Multi-Axial Fabric Production Value by Fiber Orientation (2027-2032) & (USD Million)

Table 59. World Carbon Fiber Multi-Axial Fabric Average Price by Fiber Orientation (2021-2026) & (US\$/Ton)

Table 60. World Carbon Fiber Multi-Axial Fabric Average Price by Fiber Orientation

(2027-2032) & (US\$/Ton)

Table 61. World Carbon Fiber Multi-Axial Fabric Production Value by Areal Weight, (USD Million), 2021 & 2025 & 2032

Table 62. World Carbon Fiber Multi-Axial Fabric Production by Areal Weight (2021-2026) & (Tons)

Table 63. World Carbon Fiber Multi-Axial Fabric Production by Areal Weight (2027-2032) & (Tons)

Table 64. World Carbon Fiber Multi-Axial Fabric Production Value by Areal Weight (2021-2026) & (USD Million)

Table 65. World Carbon Fiber Multi-Axial Fabric Production Value by Areal Weight (2027-2032) & (USD Million)

Table 66. World Carbon Fiber Multi-Axial Fabric Average Price by Areal Weight (2021-2026) & (US\$/Ton)

Table 67. World Carbon Fiber Multi-Axial Fabric Average Price by Areal Weight (2027-2032) & (US\$/Ton)

Table 68. World Carbon Fiber Multi-Axial Fabric Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Carbon Fiber Multi-Axial Fabric Production by Application (2021-2026) & (Tons)

Table 70. World Carbon Fiber Multi-Axial Fabric Production by Application (2027-2032) & (Tons)

Table 71. World Carbon Fiber Multi-Axial Fabric Production Value by Application (2021-2026) & (USD Million)

Table 72. World Carbon Fiber Multi-Axial Fabric Production Value by Application (2027-2032) & (USD Million)

Table 73. World Carbon Fiber Multi-Axial Fabric Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Carbon Fiber Multi-Axial Fabric Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. SAERTEX Basic Information, Manufacturing Base and Competitors

Table 76. SAERTEX Major Business

Table 77. SAERTEX Carbon Fiber Multi-Axial Fabric Product and Services

Table 78. SAERTEX Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SAERTEX Recent Developments/Updates

Table 80. SAERTEX Competitive Strengths & Weaknesses

Table 81. Chomarat Basic Information, Manufacturing Base and Competitors

Table 82. Chomarat Major Business

Table 83. Chomarat Carbon Fiber Multi-Axial Fabric Product and Services
Table 84. Chomarat Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Chomarat Recent Developments/Updates
Table 86. Chomarat Competitive Strengths & Weaknesses
Table 87. SGL Carbon Basic Information, Manufacturing Base and Competitors
Table 88. SGL Carbon Major Business
Table 89. SGL Carbon Carbon Fiber Multi-Axial Fabric Product and Services
Table 90. SGL Carbon Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. SGL Carbon Recent Developments/Updates
Table 92. SGL Carbon Competitive Strengths & Weaknesses
Table 93. Hexcel Basic Information, Manufacturing Base and Competitors
Table 94. Hexcel Major Business
Table 95. Hexcel Carbon Fiber Multi-Axial Fabric Product and Services
Table 96. Hexcel Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Hexcel Recent Developments/Updates
Table 98. Hexcel Competitive Strengths & Weaknesses
Table 99. Owens Corning Basic Information, Manufacturing Base and Competitors
Table 100. Owens Corning Major Business
Table 101. Owens Corning Carbon Fiber Multi-Axial Fabric Product and Services
Table 102. Owens Corning Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Owens Corning Recent Developments/Updates
Table 104. Owens Corning Competitive Strengths & Weaknesses
Table 105. Vectorply Basic Information, Manufacturing Base and Competitors
Table 106. Vectorply Major Business
Table 107. Vectorply Carbon Fiber Multi-Axial Fabric Product and Services
Table 108. Vectorply Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Vectorply Recent Developments/Updates
Table 110. Vectorply Competitive Strengths & Weaknesses
Table 111. Sigmatex Basic Information, Manufacturing Base and Competitors
Table 112. Sigmatex Major Business

Table 113. Sigmatex Carbon Fiber Multi-Axial Fabric Product and Services
Table 114. Sigmatex Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Sigmatex Recent Developments/Updates
Table 116. Sigmatex Competitive Strengths & Weaknesses
Table 117. Vitrulan Basic Information, Manufacturing Base and Competitors
Table 118. Vitrulan Major Business
Table 119. Vitrulan Carbon Fiber Multi-Axial Fabric Product and Services
Table 120. Vitrulan Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Vitrulan Recent Developments/Updates
Table 122. Vitrulan Competitive Strengths & Weaknesses
Table 123. Toray Basic Information, Manufacturing Base and Competitors
Table 124. Toray Major Business
Table 125. Toray Carbon Fiber Multi-Axial Fabric Product and Services
Table 126. Toray Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Toray Recent Developments/Updates
Table 128. Toray Competitive Strengths & Weaknesses
Table 129. Teijin Basic Information, Manufacturing Base and Competitors
Table 130. Teijin Major Business
Table 131. Teijin Carbon Fiber Multi-Axial Fabric Product and Services
Table 132. Teijin Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Teijin Recent Developments/Updates
Table 134. Teijin Competitive Strengths & Weaknesses
Table 135. Nittobo Basic Information, Manufacturing Base and Competitors
Table 136. Nittobo Major Business
Table 137. Nittobo Carbon Fiber Multi-Axial Fabric Product and Services
Table 138. Nittobo Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Nittobo Recent Developments/Updates
Table 140. Nittobo Competitive Strengths & Weaknesses
Table 141. China Jushi Basic Information, Manufacturing Base and Competitors
Table 142. China Jushi Major Business
Table 143. China Jushi Carbon Fiber Multi-Axial Fabric Product and Services
Table 144. China Jushi Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 145. China Jushi Recent Developments/Updates

Table 146. China Jushi Competitive Strengths & Weaknesses

Table 147. Taishan Fiberglass Basic Information, Manufacturing Base and Competitors

Table 148. Taishan Fiberglass Major Business

Table 149. Taishan Fiberglass Carbon Fiber Multi-Axial Fabric Product and Services

Table 150. Taishan Fiberglass Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 151. Taishan Fiberglass Recent Developments/Updates

Table 152. Taishan Fiberglass Competitive Strengths & Weaknesses

Table 153. CPIC Basic Information, Manufacturing Base and Competitors

Table 154. CPIC Major Business

Table 155. CPIC Carbon Fiber Multi-Axial Fabric Product and Services

Table 156. CPIC Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. CPIC Recent Developments/Updates

Table 158. CPIC Competitive Strengths & Weaknesses

Table 159. PGTEX Basic Information, Manufacturing Base and Competitors

Table 160. PGTEX Major Business

Table 161. PGTEX Carbon Fiber Multi-Axial Fabric Product and Services

Table 162. PGTEX Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. PGTEX Recent Developments/Updates

Table 164. PGTEX Competitive Strengths & Weaknesses

Table 165. Jiangsu Hengshen Basic Information, Manufacturing Base and Competitors

Table 166. Jiangsu Hengshen Major Business

Table 167. Jiangsu Hengshen Carbon Fiber Multi-Axial Fabric Product and Services

Table 168. Jiangsu Hengshen Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 169. Jiangsu Hengshen Recent Developments/Updates

Table 170. Jiangsu Hengshen Competitive Strengths & Weaknesses

Table 171. Guangwei Composites Basic Information, Manufacturing Base and Competitors

Table 172. Guangwei Composites Major Business

Table 173. Guangwei Composites Carbon Fiber Multi-Axial Fabric Product and Services

Table 174. Guangwei Composites Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 175. Guangwei Composites Recent Developments/Updates

Table 176. Guangwei Composites Competitive Strengths & Weaknesses

Table 177. Sinomatech Basic Information, Manufacturing Base and Competitors

Table 178. Sinomatech Major Business

Table 179. Sinomatech Carbon Fiber Multi-Axial Fabric Product and Services

Table 180. Sinomatech Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 181. Sinomatech Recent Developments/Updates

Table 182. Sinomatech Competitive Strengths & Weaknesses

Table 183. Feilihua Basic Information, Manufacturing Base and Competitors

Table 184. Feilihua Major Business

Table 185. Feilihua Carbon Fiber Multi-Axial Fabric Product and Services

Table 186. Feilihua Carbon Fiber Multi-Axial Fabric Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Feilihua Recent Developments/Updates

Table 188. Feilihua Competitive Strengths & Weaknesses

Table 189. Global Key Players of Carbon Fiber Multi-Axial Fabric Upstream (Raw Materials)

Table 190. Global Carbon Fiber Multi-Axial Fabric Typical Customers

Table 191. Carbon Fiber Multi-Axial Fabric Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Carbon Fiber Multi-Axial Fabric Picture

Figure 2. World Carbon Fiber Multi-Axial Fabric Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Carbon Fiber Multi-Axial Fabric Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Carbon Fiber Multi-Axial Fabric Production (2021-2032) & (Tons)

Figure 5. World Carbon Fiber Multi-Axial Fabric Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Region (2021-2032)

Figure 7. World Carbon Fiber Multi-Axial Fabric Production Market Share by Region (2021-2032)

Figure 8. North America Carbon Fiber Multi-Axial Fabric Production (2021-2032) & (Tons)

Figure 9. Europe Carbon Fiber Multi-Axial Fabric Production (2021-2032) & (Tons)

Figure 10. China Carbon Fiber Multi-Axial Fabric Production (2021-2032) & (Tons)

Figure 11. Japan Carbon Fiber Multi-Axial Fabric Production (2021-2032) & (Tons)

Figure 12. Carbon Fiber Multi-Axial Fabric Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 15. World Carbon Fiber Multi-Axial Fabric Consumption Market Share by Region (2021-2032)

Figure 16. United States Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 17. China Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 18. Europe Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 19. Japan Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 20. South Korea Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 22. India Carbon Fiber Multi-Axial Fabric Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Carbon Fiber Multi-Axial Fabric by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Carbon Fiber Multi-Axial Fabric Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Carbon Fiber Multi-Axial Fabric Markets in 2025

Figure 26. United States VS China: Carbon Fiber Multi-Axial Fabric Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Carbon Fiber Multi-Axial Fabric Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Carbon Fiber Multi-Axial Fabric Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Market Share 2025

Figure 30. China Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Carbon Fiber Multi-Axial Fabric Production Market Share 2025

Figure 32. World Carbon Fiber Multi-Axial Fabric Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Type in 2025

Figure 34. Biaxial Carbon Fiber Fabric

Figure 35. Triaxial Carbon Fiber Fabric

Figure 36. Quadraxial Carbon Fiber Fabric

Figure 37. Multiaxial Unidirectional Carbon Fiber Fabric

Figure 38. Hybrid Multiaxial Carbon Fiber Fabric

Figure 39. World Carbon Fiber Multi-Axial Fabric Production Market Share by Type (2021-2032)

Figure 40. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Type (2021-2032)

Figure 41. World Carbon Fiber Multi-Axial Fabric Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World Carbon Fiber Multi-Axial Fabric Production Value by Fiber Orientation, (USD Million), 2021 & 2025 & 2032

Figure 43. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Fiber Orientation in 2025

Figure 44. 0° Carbon Fiber Fabric

Figure 45. 90° Carbon Fiber Fabric

Figure 46. +45°/-45° Carbon Fiber Fabric

Figure 47. 0°/90° Carbon Fiber Fabric

Figure 48. 0°/+45°/-45° Carbon Fiber Fabric

Figure 49. 0°/90°/+45°/-45° Carbon Fiber Fabric

Figure 50. World Carbon Fiber Multi-Axial Fabric Production Market Share by Fiber Orientation (2021-2032)

Figure 51. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Fiber Orientation (2021-2032)

Figure 52. World Carbon Fiber Multi-Axial Fabric Average Price by Fiber Orientation (2021-2032) & (US\$/Ton)

Figure 53. World Carbon Fiber Multi-Axial Fabric Production Value by Areal Weight, (USD Million), 2021 & 2025 & 2032

Figure 54. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Areal Weight in 2025

Figure 55. Lightweight Carbon Fiber Fabric

Figure 56. Medium-weight Carbon Fiber Fabric

Figure 57. Heavyweight Carbon Fiber Fabric

Figure 58. Ultra-heavyweight Carbon Fiber Fabric

Figure 59. World Carbon Fiber Multi-Axial Fabric Production Market Share by Areal Weight (2021-2032)

Figure 60. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Areal Weight (2021-2032)

Figure 61. World Carbon Fiber Multi-Axial Fabric Average Price by Areal Weight (2021-2032) & (US\$/Ton)

Figure 62. World Carbon Fiber Multi-Axial Fabric Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 63. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Application in 2025

Figure 64. Wind Blade

Figure 65. Marine

Figure 66. Automotive

Figure 67. Aerospace

Figure 68. Construction Reinforcement

Figure 69. Sports Equipment

Figure 70. World Carbon Fiber Multi-Axial Fabric Production Market Share by Application (2021-2032)

Figure 71. World Carbon Fiber Multi-Axial Fabric Production Value Market Share by Application (2021-2032)

Figure 72. World Carbon Fiber Multi-Axial Fabric Average Price by Application (2021-2032) & (US\$/Ton)

Figure 73. Carbon Fiber Multi-Axial Fabric Industry Chain

Figure 74. Carbon Fiber Multi-Axial Fabric Procurement Model

Figure 75. Carbon Fiber Multi-Axial Fabric Sales Model

Figure 76. Carbon Fiber Multi-Axial Fabric Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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