

Global Carbon Fiber Pipes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Pipes market size is expected to reach \$ 3914 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global Carbon Fiber Pipe output reached about 45,000 tons and global capacity of around 50,000 tons. The average price is about USD 48,000 per ton, with gross margins near 39%. Carbon Fiber Pipes are lightweight, high-strength tubular composite products manufactured by combining continuous carbon fibers with polymer resin systems such as epoxy, vinyl ester, or polyester through processes including filament winding, roll wrapping, pultrusion, compression molding, or resin transfer molding. They offer an excellent strength-to-weight ratio, high stiffness, corrosion resistance, fatigue resistance, and low thermal expansion, making them widely used in aerospace, defense, industrial equipment, robotics, sporting goods, medical devices, automotive, marine, renewable energy, and construction applications. The upstream supply chain includes precursor materials (primarily polyacrylonitrile (PAN), and to a lesser extent pitch or rayon), carbon fiber production, epoxy and thermosetting resins, curing agents, sizing agents, release films, mandrels, woven fabrics, prepregs, and composite manufacturing equipment. The midstream consists of carbon fiber pipe manufacturers that design, laminate, wind, cure, machine, inspect, and finish standard or customized composite tubes according to mechanical, dimensional, and environmental performance requirements. The downstream supply chain includes OEMs and end users in aerospace & defense, automotive & motorsports, industrial automation, oil & gas, marine, renewable energy, construction, medical equipment, telecommunications, sporting goods, and scientific instrumentation, where carbon fiber pipes are utilized for lightweight structural components, drive shafts, rollers, robotic arms, UAV frames, pressure vessels, masts, and high-performance support structures.

The Carbon Fiber Pipes market is experiencing strong growth, driven by increasing demand for lightweight, high-strength structural materials across aerospace, defense, automotive, industrial automation, and renewable energy industries. The rapid adoption of electric vehicles (EVs) is boosting the use of carbon fiber pipes to reduce vehicle weight, extend driving range, and improve overall performance. Growing investments in UAVs, robotics, satellite systems, and advanced manufacturing are further increasing demand for rigid, corrosion-resistant composite tubular components. In the renewable energy sector, carbon fiber pipes are increasingly used in wind turbine components, hydrogen storage systems, and offshore applications due to their excellent fatigue and corrosion resistance. Technological advances in high-modulus carbon fibers, automated filament winding, pultrusion, resin transfer molding, and recyclable composite materials are improving production efficiency while lowering manufacturing costs. In addition, expanding infrastructure modernization, marine engineering, sporting goods, medical equipment, and oil & gas applications, combined with increasing emphasis on energy efficiency, durability, and lifecycle cost reduction, continue to create new opportunities for the global Carbon Fiber Pipes market.

This report studies the global Carbon Fiber Pipes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Pipes 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 Pipes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Pipes total production and demand, 2021-2032, (Kilotons)

Global Carbon Fiber Pipes total production value, 2021-2032, (USD Million)

Global Carbon Fiber Pipes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Carbon Fiber Pipes consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Carbon Fiber Pipes domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Pipes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Carbon Fiber Pipes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Carbon Fiber Pipes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon Fiber Pipes 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 Weihai Guangwei Composites, Rock West Composites, Clearwater Composites, DragonPlate, CST Composites, ACP Composites, Exel Composites, Composite Resources, Carbon by Design, Bercella S.r.l., 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 Pipes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Pipes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Pipes Market, Segmentation by Type:

Standard Modulus (SM) Type

Intermediate Modulus (IM) Type

High Modulus (HM) Type

Ultra-High Modulus (UHM) Type

Global Carbon Fiber Pipes Market, Segmentation by Outer Diameter:

100 mm

Global Carbon Fiber Pipes Market, Segmentation by Wall Thickness:

5 mm

Global Carbon Fiber Pipes Market, Segmentation by Application:

Aerospace & Defense

Automotive

Robotics

Industrial

Oil & Gas

Construction

Sporting Goods

Others

Companies Profiled:

Weihai Guangwei Composites

Rock West Composites

Clearwater Composites

DragonPlate

CST Composites

ACP Composites

Exel Composites

Composite Resources

Carbon by Design

Bercella S.r.l.

CarboTech Composites

Weihai Tuozechan Fiber

Weihai Jingsheng Carbon Fiber

Carbon Fibre Tubes

Key Questions Answered:

1. How big is the global Carbon Fiber Pipes market?
2. What is the demand of the global Carbon Fiber Pipes market?

3. What is the year over year growth of the global Carbon Fiber Pipes market?
4. What is the production and production value of the global Carbon Fiber Pipes market?
5. Who are the key producers in the global Carbon Fiber Pipes market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Carbon Fiber Pipes Production Value by Manufacturer (2021-2026)

- 3.2 World Carbon Fiber Pipes Production by Manufacturer (2021-2026)
- 3.3 World Carbon Fiber Pipes Average Price by Manufacturer (2021-2026)
- 3.4 Carbon Fiber Pipes Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Carbon Fiber Pipes Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Carbon Fiber Pipes in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Carbon Fiber Pipes in 2025
- 3.6 Carbon Fiber Pipes Market: Overall Company Footprint Analysis
 - 3.6.1 Carbon Fiber Pipes Market: Region Footprint
 - 3.6.2 Carbon Fiber Pipes Market: Company Product Type Footprint
 - 3.6.3 Carbon Fiber Pipes 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 Pipes Production Value Comparison
 - 4.1.1 United States VS China: Carbon Fiber Pipes Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Carbon Fiber Pipes Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Carbon Fiber Pipes Production Comparison
 - 4.2.1 United States VS China: Carbon Fiber Pipes Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Carbon Fiber Pipes Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Carbon Fiber Pipes Consumption Comparison
 - 4.3.1 United States VS China: Carbon Fiber Pipes Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Carbon Fiber Pipes Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Carbon Fiber Pipes Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Carbon Fiber Pipes Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Carbon Fiber Pipes Production Value (2021-2026)

4.4.3 United States Based Manufacturers Carbon Fiber Pipes Production (2021-2026)

4.5 China Based Carbon Fiber Pipes Manufacturers and Market Share

4.5.1 China Based Carbon Fiber Pipes Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Carbon Fiber Pipes Production Value (2021-2026)

4.5.3 China Based Manufacturers Carbon Fiber Pipes Production (2021-2026)

4.6 Rest of World Based Carbon Fiber Pipes Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Carbon Fiber Pipes Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Carbon Fiber Pipes Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Carbon Fiber Pipes Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Carbon Fiber Pipes Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Standard Modulus (SM) Type

5.2.2 Intermediate Modulus (IM) Type

5.2.3 High Modulus (HM) Type

5.2.4 Ultra-High Modulus (UHM) Type

5.3 Market Segment by Type

5.3.1 World Carbon Fiber Pipes Production by Type (2021-2032)

5.3.2 World Carbon Fiber Pipes Production Value by Type (2021-2032)

5.3.3 World Carbon Fiber Pipes Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY OUTER DIAMETER

6.1 World Carbon Fiber Pipes Market Size Overview by Outer Diameter: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Outer Diameter

6.2.1 100 mm

6.3 Market Segment by Outer Diameter

6.3.1 World Carbon Fiber Pipes Production by Outer Diameter (2021-2032)

6.3.2 World Carbon Fiber Pipes Production Value by Outer Diameter (2021-2032)

6.3.3 World Carbon Fiber Pipes Average Price by Outer Diameter (2021-2032)

7 MARKET ANALYSIS BY WALL THICKNESS

7.1 World Carbon Fiber Pipes Market Size Overview by Wall Thickness: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Wall Thickness

7.2.1 5 mm

7.3 Market Segment by Wall Thickness

7.3.1 World Carbon Fiber Pipes Production by Wall Thickness (2021-2032)

7.3.2 World Carbon Fiber Pipes Production Value by Wall Thickness (2021-2032)

7.3.3 World Carbon Fiber Pipes Average Price by Wall Thickness (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Carbon Fiber Pipes Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace & Defense

8.2.2 Automotive

8.2.3 Robotics

8.2.4 Industrial

8.2.5 Oil & Gas

8.2.6 Construction

8.2.7 Sporting Goods

8.2.8 Others

8.3 Market Segment by Application

8.3.1 World Carbon Fiber Pipes Production by Application (2021-2032)

8.3.2 World Carbon Fiber Pipes Production Value by Application (2021-2032)

8.3.3 World Carbon Fiber Pipes Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Weihai Guangwei Composites

9.1.1 Weihai Guangwei Composites Details

9.1.2 Weihai Guangwei Composites Major Business

9.1.3 Weihai Guangwei Composites Carbon Fiber Pipes Product and Services

9.1.4 Weihai Guangwei Composites Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Weihai Guangwei Composites Recent Developments/Updates

- 9.1.6 Weihai Guangwei Composites Competitive Strengths & Weaknesses
- 9.2 Rock West Composites
 - 9.2.1 Rock West Composites Details
 - 9.2.2 Rock West Composites Major Business
 - 9.2.3 Rock West Composites Carbon Fiber Pipes Product and Services
 - 9.2.4 Rock West Composites Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Rock West Composites Recent Developments/Updates
 - 9.2.6 Rock West Composites Competitive Strengths & Weaknesses
- 9.3 Clearwater Composites
 - 9.3.1 Clearwater Composites Details
 - 9.3.2 Clearwater Composites Major Business
 - 9.3.3 Clearwater Composites Carbon Fiber Pipes Product and Services
 - 9.3.4 Clearwater Composites Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Clearwater Composites Recent Developments/Updates
 - 9.3.6 Clearwater Composites Competitive Strengths & Weaknesses
- 9.4 DragonPlate
 - 9.4.1 DragonPlate Details
 - 9.4.2 DragonPlate Major Business
 - 9.4.3 DragonPlate Carbon Fiber Pipes Product and Services
 - 9.4.4 DragonPlate Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 DragonPlate Recent Developments/Updates
 - 9.4.6 DragonPlate Competitive Strengths & Weaknesses
- 9.5 CST Composites
 - 9.5.1 CST Composites Details
 - 9.5.2 CST Composites Major Business
 - 9.5.3 CST Composites Carbon Fiber Pipes Product and Services
 - 9.5.4 CST Composites Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 CST Composites Recent Developments/Updates
 - 9.5.6 CST Composites Competitive Strengths & Weaknesses
- 9.6 ACP Composites
 - 9.6.1 ACP Composites Details
 - 9.6.2 ACP Composites Major Business
 - 9.6.3 ACP Composites Carbon Fiber Pipes Product and Services
 - 9.6.4 ACP Composites Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 ACP Composites Recent Developments/Updates
- 9.6.6 ACP Composites Competitive Strengths & Weaknesses
- 9.7 Exel Composites
 - 9.7.1 Exel Composites Details
 - 9.7.2 Exel Composites Major Business
 - 9.7.3 Exel Composites Carbon Fiber Pipes Product and Services
 - 9.7.4 Exel Composites Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Exel Composites Recent Developments/Updates
 - 9.7.6 Exel Composites Competitive Strengths & Weaknesses
- 9.8 Composite Resources
 - 9.8.1 Composite Resources Details
 - 9.8.2 Composite Resources Major Business
 - 9.8.3 Composite Resources Carbon Fiber Pipes Product and Services
 - 9.8.4 Composite Resources Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Composite Resources Recent Developments/Updates
 - 9.8.6 Composite Resources Competitive Strengths & Weaknesses
- 9.9 Carbon by Design
 - 9.9.1 Carbon by Design Details
 - 9.9.2 Carbon by Design Major Business
 - 9.9.3 Carbon by Design Carbon Fiber Pipes Product and Services
 - 9.9.4 Carbon by Design Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Carbon by Design Recent Developments/Updates
 - 9.9.6 Carbon by Design Competitive Strengths & Weaknesses
- 9.10 Bercella S.r.l.
 - 9.10.1 Bercella S.r.l. Details
 - 9.10.2 Bercella S.r.l. Major Business
 - 9.10.3 Bercella S.r.l. Carbon Fiber Pipes Product and Services
 - 9.10.4 Bercella S.r.l. Carbon Fiber Pipes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Bercella S.r.l. Recent Developments/Updates
 - 9.10.6 Bercella S.r.l. Competitive Strengths & Weaknesses
- 9.11 CarboTech Composites
 - 9.11.1 CarboTech Composites Details
 - 9.11.2 CarboTech Composites Major Business
 - 9.11.3 CarboTech Composites Carbon Fiber Pipes Product and Services
 - 9.11.4 CarboTech Composites Carbon Fiber Pipes Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.11.5 CarboTech Composites Recent Developments/Updates

9.11.6 CarboTech Composites Competitive Strengths & Weaknesses

9.12 Weihai Tuozechan Fiber

9.12.1 Weihai Tuozechan Fiber Details

9.12.2 Weihai Tuozechan Fiber Major Business

9.12.3 Weihai Tuozechan Fiber Carbon Fiber Pipes Product and Services

9.12.4 Weihai Tuozechan Fiber Carbon Fiber Pipes Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.12.5 Weihai Tuozechan Fiber Recent Developments/Updates

9.12.6 Weihai Tuozechan Fiber Competitive Strengths & Weaknesses

9.13 Weihai Jingsheng Carbon Fiber

9.13.1 Weihai Jingsheng Carbon Fiber Details

9.13.2 Weihai Jingsheng Carbon Fiber Major Business

9.13.3 Weihai Jingsheng Carbon Fiber Carbon Fiber Pipes Product and Services

9.13.4 Weihai Jingsheng Carbon Fiber Carbon Fiber Pipes Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.13.5 Weihai Jingsheng Carbon Fiber Recent Developments/Updates

9.13.6 Weihai Jingsheng Carbon Fiber Competitive Strengths & Weaknesses

9.14 Carbon Fiber Tubes

9.14.1 Carbon Fiber Tubes Details

9.14.2 Carbon Fiber Tubes Major Business

9.14.3 Carbon Fiber Tubes Carbon Fiber Pipes Product and Services

9.14.4 Carbon Fiber Tubes Carbon Fiber Pipes Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.14.5 Carbon Fiber Tubes Recent Developments/Updates

9.14.6 Carbon Fiber Tubes Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Carbon Fiber Pipes Industry Chain

10.2 Carbon Fiber Pipes Upstream Analysis

10.2.1 Carbon Fiber Pipes Core Raw Materials

10.2.2 Main Manufacturers of Carbon Fiber Pipes Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Carbon Fiber Pipes Production Mode

10.6 Carbon Fiber Pipes Procurement Model

10.7 Carbon Fiber Pipes Industry Sales Model and Sales Channels

- 10.7.1 Carbon Fiber Pipes Sales Model
- 10.7.2 Carbon Fiber Pipes 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 Pipes Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Carbon Fiber Pipes Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Carbon Fiber Pipes Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Carbon Fiber Pipes Production Value Market Share by Region (2021-2026)
- Table 5. World Carbon Fiber Pipes Production Value Market Share by Region (2027-2032)
- Table 6. World Carbon Fiber Pipes Production by Region (2021-2026) & (Kilotons)
- Table 7. World Carbon Fiber Pipes Production by Region (2027-2032) & (Kilotons)
- Table 8. World Carbon Fiber Pipes Production Market Share by Region (2021-2026)
- Table 9. World Carbon Fiber Pipes Production Market Share by Region (2027-2032)
- Table 10. World Carbon Fiber Pipes Average Price by Region (2021-2026) & (US\$/Ton)
- Table 11. World Carbon Fiber Pipes Average Price by Region (2027-2032) & (US\$/Ton)
- Table 12. Carbon Fiber Pipes Major Market Trends
- Table 13. World Carbon Fiber Pipes Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)
- Table 14. World Carbon Fiber Pipes Consumption by Region (2021-2026) & (Kilotons)
- Table 15. World Carbon Fiber Pipes Consumption Forecast by Region (2027-2032) & (Kilotons)
- Table 16. World Carbon Fiber Pipes Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Carbon Fiber Pipes Producers in 2025
- Table 18. World Carbon Fiber Pipes Production by Manufacturer (2021-2026) & (Kilotons)
- Table 19. Production Market Share of Key Carbon Fiber Pipes Producers in 2025
- Table 20. World Carbon Fiber Pipes Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 21. Global Carbon Fiber Pipes Company Evaluation Quadrant
- Table 22. World Carbon Fiber Pipes Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Carbon Fiber Pipes Production Site of Key Manufacturer
- Table 24. Carbon Fiber Pipes Market: Company Product Type Footprint

Table 25. Carbon Fiber Pipes Market: Company Product Application Footprint

Table 26. Carbon Fiber Pipes Competitive Factors

Table 27. Carbon Fiber Pipes New Entrant and Capacity Expansion Plans

Table 28. Carbon Fiber Pipes Mergers & Acquisitions Activity

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

Table 30. United States VS China Carbon Fiber Pipes Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Carbon Fiber Pipes Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Carbon Fiber Pipes Manufacturers, Headquarters and Production Site (States, Country)

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

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

Table 35. United States Based Manufacturers Carbon Fiber Pipes Production (2021-2026) & (Kilotons)

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

Table 37. China Based Carbon Fiber Pipes Manufacturers, Headquarters and Production Site (Province, Country)

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

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

Table 40. China Based Manufacturers Carbon Fiber Pipes Production, (2021-2026) & (Kilotons)

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

Table 42. Rest of World Based Carbon Fiber Pipes Manufacturers, Headquarters and Production Site (State, Country)

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

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

Table 45. Rest of World Based Manufacturers Carbon Fiber Pipes Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Carbon Fiber Pipes Production Market

Share (2021-2026)

Table 47. World Carbon Fiber Pipes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Carbon Fiber Pipes Production by Type (2021-2026) & (Kilotons)

Table 49. World Carbon Fiber Pipes Production by Type (2027-2032) & (Kilotons)

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

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

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

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

Table 54. World Carbon Fiber Pipes Production Value by Outer Diameter, (USD Million), 2021 & 2025 & 2032

Table 55. World Carbon Fiber Pipes Production by Outer Diameter (2021-2026) & (Kilotons)

Table 56. World Carbon Fiber Pipes Production by Outer Diameter (2027-2032) & (Kilotons)

Table 57. World Carbon Fiber Pipes Production Value by Outer Diameter (2021-2026) & (USD Million)

Table 58. World Carbon Fiber Pipes Production Value by Outer Diameter (2027-2032) & (USD Million)

Table 59. World Carbon Fiber Pipes Average Price by Outer Diameter (2021-2026) & (US\$/Ton)

Table 60. World Carbon Fiber Pipes Average Price by Outer Diameter (2027-2032) & (US\$/Ton)

Table 61. World Carbon Fiber Pipes Production Value by Wall Thickness, (USD Million), 2021 & 2025 & 2032

Table 62. World Carbon Fiber Pipes Production by Wall Thickness (2021-2026) & (Kilotons)

Table 63. World Carbon Fiber Pipes Production by Wall Thickness (2027-2032) & (Kilotons)

Table 64. World Carbon Fiber Pipes Production Value by Wall Thickness (2021-2026) & (USD Million)

Table 65. World Carbon Fiber Pipes Production Value by Wall Thickness (2027-2032) & (USD Million)

Table 66. World Carbon Fiber Pipes Average Price by Wall Thickness (2021-2026) & (US\$/Ton)

Table 67. World Carbon Fiber Pipes Average Price by Wall Thickness (2027-2032) & (US\$/Ton)

Table 68. World Carbon Fiber Pipes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Carbon Fiber Pipes Production by Application (2021-2026) & (Kilotons)

Table 70. World Carbon Fiber Pipes Production by Application (2027-2032) & (Kilotons)

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

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

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

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

Table 75. Weihai Guangwei Composites Basic Information, Manufacturing Base and Competitors

Table 76. Weihai Guangwei Composites Major Business

Table 77. Weihai Guangwei Composites Carbon Fiber Pipes Product and Services

Table 78. Weihai Guangwei Composites Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Weihai Guangwei Composites Recent Developments/Updates

Table 80. Weihai Guangwei Composites Competitive Strengths & Weaknesses

Table 81. Rock West Composites Basic Information, Manufacturing Base and Competitors

Table 82. Rock West Composites Major Business

Table 83. Rock West Composites Carbon Fiber Pipes Product and Services

Table 84. Rock West Composites Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Rock West Composites Recent Developments/Updates

Table 86. Rock West Composites Competitive Strengths & Weaknesses

Table 87. Clearwater Composites Basic Information, Manufacturing Base and Competitors

Table 88. Clearwater Composites Major Business

Table 89. Clearwater Composites Carbon Fiber Pipes Product and Services

Table 90. Clearwater Composites Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Clearwater Composites Recent Developments/Updates

Table 92. Clearwater Composites Competitive Strengths & Weaknesses

Table 93. DragonPlate Basic Information, Manufacturing Base and Competitors
Table 94. DragonPlate Major Business
Table 95. DragonPlate Carbon Fiber Pipes Product and Services
Table 96. DragonPlate Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. DragonPlate Recent Developments/Updates
Table 98. DragonPlate Competitive Strengths & Weaknesses
Table 99. CST Composites Basic Information, Manufacturing Base and Competitors
Table 100. CST Composites Major Business
Table 101. CST Composites Carbon Fiber Pipes Product and Services
Table 102. CST Composites Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. CST Composites Recent Developments/Updates
Table 104. CST Composites Competitive Strengths & Weaknesses
Table 105. ACP Composites Basic Information, Manufacturing Base and Competitors
Table 106. ACP Composites Major Business
Table 107. ACP Composites Carbon Fiber Pipes Product and Services
Table 108. ACP Composites Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. ACP Composites Recent Developments/Updates
Table 110. ACP Composites Competitive Strengths & Weaknesses
Table 111. Exel Composites Basic Information, Manufacturing Base and Competitors
Table 112. Exel Composites Major Business
Table 113. Exel Composites Carbon Fiber Pipes Product and Services
Table 114. Exel Composites Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Exel Composites Recent Developments/Updates
Table 116. Exel Composites Competitive Strengths & Weaknesses
Table 117. Composite Resources Basic Information, Manufacturing Base and Competitors
Table 118. Composite Resources Major Business
Table 119. Composite Resources Carbon Fiber Pipes Product and Services
Table 120. Composite Resources Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Composite Resources Recent Developments/Updates
Table 122. Composite Resources Competitive Strengths & Weaknesses

Table 123. Carbon by Design Basic Information, Manufacturing Base and Competitors

Table 124. Carbon by Design Major Business

Table 125. Carbon by Design Carbon Fiber Pipes Product and Services

Table 126. Carbon by Design Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Carbon by Design Recent Developments/Updates

Table 128. Carbon by Design Competitive Strengths & Weaknesses

Table 129. Bercella S.r.l. Basic Information, Manufacturing Base and Competitors

Table 130. Bercella S.r.l. Major Business

Table 131. Bercella S.r.l. Carbon Fiber Pipes Product and Services

Table 132. Bercella S.r.l. Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Bercella S.r.l. Recent Developments/Updates

Table 134. Bercella S.r.l. Competitive Strengths & Weaknesses

Table 135. CarboTech Composites Basic Information, Manufacturing Base and Competitors

Table 136. CarboTech Composites Major Business

Table 137. CarboTech Composites Carbon Fiber Pipes Product and Services

Table 138. CarboTech Composites Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. CarboTech Composites Recent Developments/Updates

Table 140. CarboTech Composites Competitive Strengths & Weaknesses

Table 141. Weihai Tuozhan Fiber Basic Information, Manufacturing Base and Competitors

Table 142. Weihai Tuozhan Fiber Major Business

Table 143. Weihai Tuozhan Fiber Carbon Fiber Pipes Product and Services

Table 144. Weihai Tuozhan Fiber Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Weihai Tuozhan Fiber Recent Developments/Updates

Table 146. Weihai Tuozhan Fiber Competitive Strengths & Weaknesses

Table 147. Weihai Jingsheng Carbon Fiber Basic Information, Manufacturing Base and Competitors

Table 148. Weihai Jingsheng Carbon Fiber Major Business

Table 149. Weihai Jingsheng Carbon Fiber Carbon Fiber Pipes Product and Services

Table 150. Weihai Jingsheng Carbon Fiber Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 151. Weihai Jingsheng Carbon Fiber Recent Developments/Updates

Table 152. Weihai Jingsheng Carbon Fiber Competitive Strengths & Weaknesses

Table 153. Carbon Fibre Tubes Basic Information, Manufacturing Base and Competitors

Table 154. Carbon Fibre Tubes Major Business

Table 155. Carbon Fibre Tubes Carbon Fiber Pipes Product and Services

Table 156. Carbon Fibre Tubes Carbon Fiber Pipes Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 157. Carbon Fibre Tubes Recent Developments/Updates

Table 158. Carbon Fibre Tubes Competitive Strengths & Weaknesses

Table 159. Global Key Players of Carbon Fiber Pipes Upstream (Raw Materials)

Table 160. Global Carbon Fiber Pipes Typical Customers

Table 161. Carbon Fiber Pipes Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Carbon Fiber Pipes Picture

Figure 2. World Carbon Fiber Pipes Production Value: 2021 & 2025 & 2032, (USD Million)

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

Figure 4. World Carbon Fiber Pipes Production (2021-2032) & (Kilotons)

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

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

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

Figure 8. North America Carbon Fiber Pipes Production (2021-2032) & (Kilotons)

Figure 9. Europe Carbon Fiber Pipes Production (2021-2032) & (Kilotons)

Figure 10. China Carbon Fiber Pipes Production (2021-2032) & (Kilotons)

Figure 11. Japan Carbon Fiber Pipes Production (2021-2032) & (Kilotons)

Figure 12. Carbon Fiber Pipes Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

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

Figure 16. United States Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

Figure 17. China Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

Figure 22. India Carbon Fiber Pipes Consumption (2021-2032) & (Kilotons)

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

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

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

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

Figure 27. United States VS China: Carbon Fiber Pipes Production Market Share

Comparison (2021 & 2025 & 2032)

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

Figure 29. United States Based Manufacturers Carbon Fiber Pipes Production Market Share 2025

Figure 30. China Based Manufacturers Carbon Fiber Pipes Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Carbon Fiber Pipes Production Market Share 2025

Figure 32. World Carbon Fiber Pipes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Carbon Fiber Pipes Production Value Market Share by Type in 2025

Figure 34. Standard Modulus (SM) Type

Figure 35. Intermediate Modulus (IM) Type

Figure 36. High Modulus (HM) Type

Figure 37. Ultra-High Modulus (UHM) Type

Figure 38. World Carbon Fiber Pipes Production Market Share by Type (2021-2032)

Figure 39. World Carbon Fiber Pipes Production Value Market Share by Type (2021-2032)

Figure 40. World Carbon Fiber Pipes Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Carbon Fiber Pipes Production Value by Outer Diameter, (USD Million), 2021 & 2025 & 2032

Figure 42. World Carbon Fiber Pipes Production Value Market Share by Outer Diameter in 2025

Figure 43. 100 mm

Figure 47. World Carbon Fiber Pipes Production Market Share by Outer Diameter (2021-2032)

Figure 48. World Carbon Fiber Pipes Production Value Market Share by Outer Diameter (2021-2032)

Figure 49. World Carbon Fiber Pipes Average Price by Outer Diameter (2021-2032) & (US\$/Ton)

Figure 50. World Carbon Fiber Pipes Production Value by Wall Thickness, (USD Million), 2021 & 2025 & 2032

Figure 51. World Carbon Fiber Pipes Production Value Market Share by Wall Thickness in 2025

Figure 52. 5 mm

Figure 56. World Carbon Fiber Pipes Production Market Share by Wall Thickness (2021-2032)

Figure 57. World Carbon Fiber Pipes Production Value Market Share by Wall Thickness

(2021-2032)

Figure 58. World Carbon Fiber Pipes Average Price by Wall Thickness (2021-2032) & (US\$/Ton)

Figure 59. World Carbon Fiber Pipes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Carbon Fiber Pipes Production Value Market Share by Application in 2025

Figure 61. Aerospace & Defense

Figure 62. Automotive

Figure 63. Robotics

Figure 64. Industrial

Figure 65. Oil & Gas

Figure 66. Construction

Figure 67. Sporting Goods

Figure 68. Others

Figure 69. Others

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

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

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

Figure 73. Carbon Fiber Pipes Industry Chain

Figure 74. Carbon Fiber Pipes Procurement Model

Figure 75. Carbon Fiber Pipes Sales Model

Figure 76. Carbon Fiber Pipes Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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