

Global Large-Tow Carbon Fiber (Above 48K) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Large-Tow Carbon Fiber (Above 48K) market size is expected to reach \$ 2941 million by 2032, rising at a market growth of 14.2% CAGR during the forecast period (2026-2032).

Large-Tow Carbon Fiber (Above 48K) refers to continuous carbon fiber tow in which a single bundle contains more than 48,000 carbon fiber filaments. In industry terminology, small tow is generally associated with 24K or below, while large tow is commonly described as 48K to 320K filaments or more. The product is designed for large-volume composite applications where material cost, processing efficiency and stable supply are critical. Compared with small tow or regular tow carbon fiber, Large-Tow Carbon Fiber (Above 48K) usually has a larger single-bundle fiber quantity, higher deposition efficiency and better suitability for pultrusion, filament winding, multiaxial fabrics and automated forming, while still maintaining the high strength, low density, corrosion resistance and fatigue resistance of carbon fiber composites.

In 2025, global sales of Large-Tow Carbon Fiber (Above 48K) reached approximately 72 K tons, with an average global market price of around US\$ 16/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 60%.

Large-Tow Carbon Fiber (Above 48K) is an important product direction supporting the expansion of carbon fiber from premium, small-volume applications into large-scale industrial use. Its positioning is different from small tow carbon fiber commonly used in aerospace; it places greater emphasis on cost efficiency, processing speed, supply stability and compatibility with mass production. For wind power, automotive, pressure vessels, construction reinforcement and general industrial components, downstream

customers usually consider not only mechanical properties, but also material cost, impregnation behavior, spreadability, forming efficiency and long-term supply capability. Toray also positions large-tow, large-volume carbon fiber as a more affordable industrial product.

The market outlook for Large-Tow Carbon Fiber (Above 48K) remains positive. Larger wind turbine blades, automotive lightweighting, hydrogen storage equipment, industrial structural upgrades and the replacement of traditional metals are important drivers of demand growth. With the development of pultrusion, filament winding, multiaxial fabrics, thermoplastic composites and automated forming technologies, the processing compatibility of large-tow carbon fiber continues to improve. This helps the material enter more cost-sensitive applications that still require high-performance reinforcement. SGL Carbon's 50K products are also positioned for automotive, energy, aerospace-related and other industrial composite applications, showing that large tow is not only a low-end material but a performance-cost balanced solution for scalable applications.

From a competitive perspective, the barriers for Large-Tow Carbon Fiber (Above 48K) are not limited to capacity scale. They also include stable carbonization of heavy tow, fuzz control, sizing formulation, resin impregnation, package quality, spreading compatibility and reliable large-volume delivery. The future market is likely to become more segmented. Producers with scale and cost advantages will benefit more from growth in wind power, automotive and general industrial demand, while suppliers with high-strength, high-elongation and application development capabilities will have better opportunities in pressure vessels, hydrogen storage and premium industrial structures. Overall, competition in this product category will continue to focus on cost reduction, stability, scalable processing and downstream co-development.

This report studies the global Large-Tow Carbon Fiber (Above 48K) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Large-Tow Carbon Fiber (Above 48K) 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 Large-Tow Carbon Fiber (Above 48K) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Large-Tow Carbon Fiber (Above 48K) total production and demand, 2021-2032, (Tons)

Global Large-Tow Carbon Fiber (Above 48K) total production value, 2021-2032, (USD Million)

Global Large-Tow Carbon Fiber (Above 48K) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Large-Tow Carbon Fiber (Above 48K) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Large-Tow Carbon Fiber (Above 48K) domestic production, consumption, key domestic manufacturers and share

Global Large-Tow Carbon Fiber (Above 48K) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Large-Tow Carbon Fiber (Above 48K) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Large-Tow Carbon Fiber (Above 48K) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Large-Tow Carbon Fiber (Above 48K) 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 Toray, Mitsubishi Chemical, SGL Carbon, Formosa Plastics, Aksa Carbon, Zhongfu Shenying, Baowu Carbon, Jiangsu Hengshen, Newtech Group, 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 Large-Tow Carbon Fiber (Above 48K) 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 Large-Tow Carbon Fiber (Above 48K) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Large-Tow Carbon Fiber (Above 48K) Market, Segmentation by Type:

48K

60K

Other

Global Large-Tow Carbon Fiber (Above 48K) Market, Segmentation by Precursor:

PAN-based

Pitch-based

Rayon-based

Global Large-Tow Carbon Fiber (Above 48K) Market, Segmentation by Surface Treatment:

Unsize

Sized

Global Large-Tow Carbon Fiber (Above 48K) Market, Segmentation by Application:

Wind Turbine Blades

Civil Engineering

Sports

Aerospace

Automotive

Other

Companies Profiled:

Toray

Mitsubishi Chemical

SGL Carbon

Formosa Plastics

Aksa Carbon

Zhongfu Shenying

Baowu Carbon

Jiangsu Hengshen

Newtech Group

Key Questions Answered:

1. How big is the global Large-Tow Carbon Fiber (Above 48K) market?
2. What is the demand of the global Large-Tow Carbon Fiber (Above 48K) market?
3. What is the year over year growth of the global Large-Tow Carbon Fiber (Above 48K) market?
4. What is the production and production value of the global Large-Tow Carbon Fiber (Above 48K) market?
5. Who are the key producers in the global Large-Tow Carbon Fiber (Above 48K) market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Large-Tow Carbon Fiber (Above 48K) Introduction
- 1.2 World Large-Tow Carbon Fiber (Above 48K) Supply & Forecast
 - 1.2.1 World Large-Tow Carbon Fiber (Above 48K) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Large-Tow Carbon Fiber (Above 48K) Production (2021-2032)
 - 1.2.3 World Large-Tow Carbon Fiber (Above 48K) Pricing Trends (2021-2032)
- 1.3 World Large-Tow Carbon Fiber (Above 48K) Production by Region (Based on Production Site)
 - 1.3.1 World Large-Tow Carbon Fiber (Above 48K) Production Value by Region (2021-2032)
 - 1.3.2 World Large-Tow Carbon Fiber (Above 48K) Production by Region (2021-2032)
 - 1.3.3 World Large-Tow Carbon Fiber (Above 48K) Average Price by Region (2021-2032)
 - 1.3.4 Europe Large-Tow Carbon Fiber (Above 48K) Production (2021-2032)
 - 1.3.5 Japan Large-Tow Carbon Fiber (Above 48K) Production (2021-2032)
 - 1.3.6 China Large-Tow Carbon Fiber (Above 48K) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Large-Tow Carbon Fiber (Above 48K) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Large-Tow Carbon Fiber (Above 48K) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Large-Tow Carbon Fiber (Above 48K) Demand (2021-2032)
- 2.2 World Large-Tow Carbon Fiber (Above 48K) Consumption by Region
 - 2.2.1 World Large-Tow Carbon Fiber (Above 48K) Consumption by Region (2021-2026)
 - 2.2.2 World Large-Tow Carbon Fiber (Above 48K) Consumption Forecast by Region (2027-2032)
- 2.3 United States Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032)
- 2.4 China Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032)
- 2.5 Europe Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032)
- 2.6 Japan Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032)
- 2.7 South Korea Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032)
- 2.8 ASEAN Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032)

2.9 India Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Large-Tow Carbon Fiber (Above 48K) Production Value by Manufacturer (2021-2026)

3.2 World Large-Tow Carbon Fiber (Above 48K) Production by Manufacturer (2021-2026)

3.3 World Large-Tow Carbon Fiber (Above 48K) Average Price by Manufacturer (2021-2026)

3.4 Large-Tow Carbon Fiber (Above 48K) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Large-Tow Carbon Fiber (Above 48K) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Large-Tow Carbon Fiber (Above 48K) in 2025

3.5.3 Global Concentration Ratios (CR8) for Large-Tow Carbon Fiber (Above 48K) in 2025

3.6 Large-Tow Carbon Fiber (Above 48K) Market: Overall Company Footprint Analysis

3.6.1 Large-Tow Carbon Fiber (Above 48K) Market: Region Footprint

3.6.2 Large-Tow Carbon Fiber (Above 48K) Market: Company Product Type Footprint

3.6.3 Large-Tow Carbon Fiber (Above 48K) 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: Large-Tow Carbon Fiber (Above 48K) Production Value Comparison

4.1.1 United States VS China: Large-Tow Carbon Fiber (Above 48K) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Large-Tow Carbon Fiber (Above 48K) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Large-Tow Carbon Fiber (Above 48K) Production

Comparison

4.2.1 United States VS China: Large-Tow Carbon Fiber (Above 48K) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Large-Tow Carbon Fiber (Above 48K) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Large-Tow Carbon Fiber (Above 48K) Consumption Comparison

4.3.1 United States VS China: Large-Tow Carbon Fiber (Above 48K) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Large-Tow Carbon Fiber (Above 48K) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Large-Tow Carbon Fiber (Above 48K) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Large-Tow Carbon Fiber (Above 48K) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production (2021-2026)

4.5 China Based Large-Tow Carbon Fiber (Above 48K) Manufacturers and Market Share

4.5.1 China Based Large-Tow Carbon Fiber (Above 48K) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value (2021-2026)

4.5.3 China Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production (2021-2026)

4.6 Rest of World Based Large-Tow Carbon Fiber (Above 48K) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Large-Tow Carbon Fiber (Above 48K) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Large-Tow Carbon Fiber (Above 48K) Market Size Overview by Type: 2021

VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 48K

5.2.2 60K

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Large-Tow Carbon Fiber (Above 48K) Production by Type (2021-2032)

5.3.2 World Large-Tow Carbon Fiber (Above 48K) Production Value by Type
(2021-2032)

5.3.3 World Large-Tow Carbon Fiber (Above 48K) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRECURSOR

6.1 World Large-Tow Carbon Fiber (Above 48K) Market Size Overview by Precursor:
2021 VS 2025 VS 2032

6.2 Segment Introduction by Precursor

6.2.1 PAN-based

6.2.2 Pitch-based

6.2.3 Rayon-based

6.3 Market Segment by Precursor

6.3.1 World Large-Tow Carbon Fiber (Above 48K) Production by Precursor
(2021-2032)

6.3.2 World Large-Tow Carbon Fiber (Above 48K) Production Value by Precursor
(2021-2032)

6.3.3 World Large-Tow Carbon Fiber (Above 48K) Average Price by Precursor
(2021-2032)

7 MARKET ANALYSIS BY SURFACE TREATMENT

7.1 World Large-Tow Carbon Fiber (Above 48K) Market Size Overview by Surface
Treatment: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Surface Treatment

7.2.1 Unsized

7.2.2 Sized

7.3 Market Segment by Surface Treatment

7.3.1 World Large-Tow Carbon Fiber (Above 48K) Production by Surface Treatment
(2021-2032)

7.3.2 World Large-Tow Carbon Fiber (Above 48K) Production Value by Surface
Treatment (2021-2032)

7.3.3 World Large-Tow Carbon Fiber (Above 48K) Average Price by Surface Treatment (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Large-Tow Carbon Fiber (Above 48K) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Wind Turbine Blades

8.2.2 Civil Engineering

8.2.3 Sports

8.2.4 Aerospace

8.2.5 Automotive

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Large-Tow Carbon Fiber (Above 48K) Production by Application (2021-2032)

8.3.2 World Large-Tow Carbon Fiber (Above 48K) Production Value by Application (2021-2032)

8.3.3 World Large-Tow Carbon Fiber (Above 48K) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Toray

9.1.1 Toray Details

9.1.2 Toray Major Business

9.1.3 Toray Large-Tow Carbon Fiber (Above 48K) Product and Services

9.1.4 Toray Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Toray Recent Developments/Updates

9.1.6 Toray Competitive Strengths & Weaknesses

9.2 Mitsubishi Chemical

9.2.1 Mitsubishi Chemical Details

9.2.2 Mitsubishi Chemical Major Business

9.2.3 Mitsubishi Chemical Large-Tow Carbon Fiber (Above 48K) Product and Services

9.2.4 Mitsubishi Chemical Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Mitsubishi Chemical Recent Developments/Updates

9.2.6 Mitsubishi Chemical 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 Large-Tow Carbon Fiber (Above 48K) Product and Services

9.3.4 SGL Carbon Large-Tow Carbon Fiber (Above 48K) 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 Formosa Plastics

9.4.1 Formosa Plastics Details

9.4.2 Formosa Plastics Major Business

9.4.3 Formosa Plastics Large-Tow Carbon Fiber (Above 48K) Product and Services

9.4.4 Formosa Plastics Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Formosa Plastics Recent Developments/Updates

9.4.6 Formosa Plastics Competitive Strengths & Weaknesses

9.5 Aksa Carbon

9.5.1 Aksa Carbon Details

9.5.2 Aksa Carbon Major Business

9.5.3 Aksa Carbon Large-Tow Carbon Fiber (Above 48K) Product and Services

9.5.4 Aksa Carbon Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Aksa Carbon Recent Developments/Updates

9.5.6 Aksa Carbon Competitive Strengths & Weaknesses

9.6 Zhongfu Shenying

9.6.1 Zhongfu Shenying Details

9.6.2 Zhongfu Shenying Major Business

9.6.3 Zhongfu Shenying Large-Tow Carbon Fiber (Above 48K) Product and Services

9.6.4 Zhongfu Shenying Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Zhongfu Shenying Recent Developments/Updates

9.6.6 Zhongfu Shenying Competitive Strengths & Weaknesses

9.7 Baowu Carbon

9.7.1 Baowu Carbon Details

9.7.2 Baowu Carbon Major Business

9.7.3 Baowu Carbon Large-Tow Carbon Fiber (Above 48K) Product and Services

9.7.4 Baowu Carbon Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Baowu Carbon Recent Developments/Updates

9.7.6 Baowu Carbon Competitive Strengths & Weaknesses

9.8 Jiangsu Hengshen

9.8.1 Jiangsu Hengshen Details

9.8.2 Jiangsu Hengshen Major Business

9.8.3 Jiangsu Hengshen Large-Tow Carbon Fiber (Above 48K) Product and Services

9.8.4 Jiangsu Hengshen Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Jiangsu Hengshen Recent Developments/Updates

9.8.6 Jiangsu Hengshen Competitive Strengths & Weaknesses

9.9 Newtech Group

9.9.1 Newtech Group Details

9.9.2 Newtech Group Major Business

9.9.3 Newtech Group Large-Tow Carbon Fiber (Above 48K) Product and Services

9.9.4 Newtech Group Large-Tow Carbon Fiber (Above 48K) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Newtech Group Recent Developments/Updates

9.9.6 Newtech Group Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Large-Tow Carbon Fiber (Above 48K) Industry Chain

10.2 Large-Tow Carbon Fiber (Above 48K) Upstream Analysis

10.2.1 Large-Tow Carbon Fiber (Above 48K) Core Raw Materials

10.2.2 Main Manufacturers of Large-Tow Carbon Fiber (Above 48K) Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Large-Tow Carbon Fiber (Above 48K) Production Mode

10.6 Large-Tow Carbon Fiber (Above 48K) Procurement Model

10.7 Large-Tow Carbon Fiber (Above 48K) Industry Sales Model and Sales Channels

10.7.1 Large-Tow Carbon Fiber (Above 48K) Sales Model

10.7.2 Large-Tow Carbon Fiber (Above 48K) 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 Large-Tow Carbon Fiber (Above 48K) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Large-Tow Carbon Fiber (Above 48K) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Large-Tow Carbon Fiber (Above 48K) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Region (2021-2026)

Table 5. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Region (2027-2032)

Table 6. World Large-Tow Carbon Fiber (Above 48K) Production by Region (2021-2026) & (Tons)

Table 7. World Large-Tow Carbon Fiber (Above 48K) Production by Region (2027-2032) & (Tons)

Table 8. World Large-Tow Carbon Fiber (Above 48K) Production Market Share by Region (2021-2026)

Table 9. World Large-Tow Carbon Fiber (Above 48K) Production Market Share by Region (2027-2032)

Table 10. World Large-Tow Carbon Fiber (Above 48K) Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Large-Tow Carbon Fiber (Above 48K) Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Large-Tow Carbon Fiber (Above 48K) Major Market Trends

Table 13. World Large-Tow Carbon Fiber (Above 48K) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Large-Tow Carbon Fiber (Above 48K) Consumption by Region (2021-2026) & (Tons)

Table 15. World Large-Tow Carbon Fiber (Above 48K) Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Large-Tow Carbon Fiber (Above 48K) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Large-Tow Carbon Fiber (Above 48K) Producers in 2025

Table 18. World Large-Tow Carbon Fiber (Above 48K) Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Large-Tow Carbon Fiber (Above 48K) Producers in 2025

Table 20. World Large-Tow Carbon Fiber (Above 48K) Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Large-Tow Carbon Fiber (Above 48K) Company Evaluation Quadrant

Table 22. World Large-Tow Carbon Fiber (Above 48K) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Large-Tow Carbon Fiber (Above 48K) Production Site of Key Manufacturer

Table 24. Large-Tow Carbon Fiber (Above 48K) Market: Company Product Type Footprint

Table 25. Large-Tow Carbon Fiber (Above 48K) Market: Company Product Application Footprint

Table 26. Large-Tow Carbon Fiber (Above 48K) Competitive Factors

Table 27. Large-Tow Carbon Fiber (Above 48K) New Entrant and Capacity Expansion Plans

Table 28. Large-Tow Carbon Fiber (Above 48K) Mergers & Acquisitions Activity

Table 29. United States VS China Large-Tow Carbon Fiber (Above 48K) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Large-Tow Carbon Fiber (Above 48K) Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Large-Tow Carbon Fiber (Above 48K) Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Large-Tow Carbon Fiber (Above 48K) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Market Share (2021-2026)

Table 37. China Based Large-Tow Carbon Fiber (Above 48K) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production, (2021-2026) & (Tons)
Table 41. China Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Market Share (2021-2026)
Table 42. Rest of World Based Large-Tow Carbon Fiber (Above 48K) Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production, (2021-2026) & (Tons)
Table 46. Rest of World Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Market Share (2021-2026)
Table 47. World Large-Tow Carbon Fiber (Above 48K) Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Large-Tow Carbon Fiber (Above 48K) Production by Type (2021-2026) & (Tons)
Table 49. World Large-Tow Carbon Fiber (Above 48K) Production by Type (2027-2032) & (Tons)
Table 50. World Large-Tow Carbon Fiber (Above 48K) Production Value by Type (2021-2026) & (USD Million)
Table 51. World Large-Tow Carbon Fiber (Above 48K) Production Value by Type (2027-2032) & (USD Million)
Table 52. World Large-Tow Carbon Fiber (Above 48K) Average Price by Type (2021-2026) & (US\$/Ton)
Table 53. World Large-Tow Carbon Fiber (Above 48K) Average Price by Type (2027-2032) & (US\$/Ton)
Table 54. World Large-Tow Carbon Fiber (Above 48K) Production Value by Precursor, (USD Million), 2021 & 2025 & 2032
Table 55. World Large-Tow Carbon Fiber (Above 48K) Production by Precursor (2021-2026) & (Tons)
Table 56. World Large-Tow Carbon Fiber (Above 48K) Production by Precursor (2027-2032) & (Tons)
Table 57. World Large-Tow Carbon Fiber (Above 48K) Production Value by Precursor (2021-2026) & (USD Million)
Table 58. World Large-Tow Carbon Fiber (Above 48K) Production Value by Precursor (2027-2032) & (USD Million)
Table 59. World Large-Tow Carbon Fiber (Above 48K) Average Price by Precursor

(2021-2026) & (US\$/Ton)

Table 60. World Large-Tow Carbon Fiber (Above 48K) Average Price by Precursor (2027-2032) & (US\$/Ton)

Table 61. World Large-Tow Carbon Fiber (Above 48K) Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Table 62. World Large-Tow Carbon Fiber (Above 48K) Production by Surface Treatment (2021-2026) & (Tons)

Table 63. World Large-Tow Carbon Fiber (Above 48K) Production by Surface Treatment (2027-2032) & (Tons)

Table 64. World Large-Tow Carbon Fiber (Above 48K) Production Value by Surface Treatment (2021-2026) & (USD Million)

Table 65. World Large-Tow Carbon Fiber (Above 48K) Production Value by Surface Treatment (2027-2032) & (USD Million)

Table 66. World Large-Tow Carbon Fiber (Above 48K) Average Price by Surface Treatment (2021-2026) & (US\$/Ton)

Table 67. World Large-Tow Carbon Fiber (Above 48K) Average Price by Surface Treatment (2027-2032) & (US\$/Ton)

Table 68. World Large-Tow Carbon Fiber (Above 48K) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Large-Tow Carbon Fiber (Above 48K) Production by Application (2021-2026) & (Tons)

Table 70. World Large-Tow Carbon Fiber (Above 48K) Production by Application (2027-2032) & (Tons)

Table 71. World Large-Tow Carbon Fiber (Above 48K) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Large-Tow Carbon Fiber (Above 48K) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Large-Tow Carbon Fiber (Above 48K) Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Large-Tow Carbon Fiber (Above 48K) Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Toray Basic Information, Manufacturing Base and Competitors

Table 76. Toray Major Business

Table 77. Toray Large-Tow Carbon Fiber (Above 48K) Product and Services

Table 78. Toray Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Toray Recent Developments/Updates

Table 80. Toray Competitive Strengths & Weaknesses

Table 81. Mitsubishi Chemical Basic Information, Manufacturing Base and Competitors
Table 82. Mitsubishi Chemical Major Business
Table 83. Mitsubishi Chemical Large-Tow Carbon Fiber (Above 48K) Product and Services
Table 84. Mitsubishi Chemical Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Mitsubishi Chemical Recent Developments/Updates
Table 86. Mitsubishi Chemical Competitive Strengths & Weaknesses
Table 87. SGL Carbon Basic Information, Manufacturing Base and Competitors
Table 88. SGL Carbon Major Business
Table 89. SGL Carbon Large-Tow Carbon Fiber (Above 48K) Product and Services
Table 90. SGL Carbon Large-Tow Carbon Fiber (Above 48K) 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. Formosa Plastics Basic Information, Manufacturing Base and Competitors
Table 94. Formosa Plastics Major Business
Table 95. Formosa Plastics Large-Tow Carbon Fiber (Above 48K) Product and Services
Table 96. Formosa Plastics Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Formosa Plastics Recent Developments/Updates
Table 98. Formosa Plastics Competitive Strengths & Weaknesses
Table 99. Aksa Carbon Basic Information, Manufacturing Base and Competitors
Table 100. Aksa Carbon Major Business
Table 101. Aksa Carbon Large-Tow Carbon Fiber (Above 48K) Product and Services
Table 102. Aksa Carbon Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Aksa Carbon Recent Developments/Updates
Table 104. Aksa Carbon Competitive Strengths & Weaknesses
Table 105. Zhongfu Shenying Basic Information, Manufacturing Base and Competitors
Table 106. Zhongfu Shenying Major Business
Table 107. Zhongfu Shenying Large-Tow Carbon Fiber (Above 48K) Product and Services
Table 108. Zhongfu Shenying Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. Zhongfu Shenying Recent Developments/Updates

Table 110. Zhongfu Shenying Competitive Strengths & Weaknesses

Table 111. Baowu Carbon Basic Information, Manufacturing Base and Competitors

Table 112. Baowu Carbon Major Business

Table 113. Baowu Carbon Large-Tow Carbon Fiber (Above 48K) Product and Services

Table 114. Baowu Carbon Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 115. Baowu Carbon Recent Developments/Updates

Table 116. Baowu Carbon Competitive Strengths & Weaknesses

Table 117. Jiangsu Hengshen Basic Information, Manufacturing Base and Competitors

Table 118. Jiangsu Hengshen Major Business

Table 119. Jiangsu Hengshen Large-Tow Carbon Fiber (Above 48K) Product and Services

Table 120. Jiangsu Hengshen Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 121. Jiangsu Hengshen Recent Developments/Updates

Table 122. Jiangsu Hengshen Competitive Strengths & Weaknesses

Table 123. Newtech Group Basic Information, Manufacturing Base and Competitors

Table 124. Newtech Group Major Business

Table 125. Newtech Group Large-Tow Carbon Fiber (Above 48K) Product and Services

Table 126. Newtech Group Large-Tow Carbon Fiber (Above 48K) Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 127. Newtech Group Recent Developments/Updates

Table 128. Newtech Group Competitive Strengths & Weaknesses

Table 129. Global Key Players of Large-Tow Carbon Fiber (Above 48K) Upstream (Raw Materials)

Table 130. Global Large-Tow Carbon Fiber (Above 48K) Typical Customers

Table 131. Large-Tow Carbon Fiber (Above 48K) Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Large-Tow Carbon Fiber (Above 48K) Picture
- Figure 2. World Large-Tow Carbon Fiber (Above 48K) Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Large-Tow Carbon Fiber (Above 48K) Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Large-Tow Carbon Fiber (Above 48K) Production (2021-2032) & (Tons)
- Figure 5. World Large-Tow Carbon Fiber (Above 48K) Average Price (2021-2032) & (US\$/Ton)
- Figure 6. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Region (2021-2032)
- Figure 7. World Large-Tow Carbon Fiber (Above 48K) Production Market Share by Region (2021-2032)
- Figure 8. Europe Large-Tow Carbon Fiber (Above 48K) Production (2021-2032) & (Tons)
- Figure 9. Japan Large-Tow Carbon Fiber (Above 48K) Production (2021-2032) & (Tons)
- Figure 10. China Large-Tow Carbon Fiber (Above 48K) Production (2021-2032) & (Tons)
- Figure 11. Large-Tow Carbon Fiber (Above 48K) Market Drivers
- Figure 12. Factors Affecting Demand
- Figure 13. World Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)
- Figure 14. World Large-Tow Carbon Fiber (Above 48K) Consumption Market Share by Region (2021-2032)
- Figure 15. United States Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)
- Figure 16. China Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)
- Figure 17. Europe Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)
- Figure 18. Japan Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)
- Figure 19. South Korea Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)
- Figure 20. ASEAN Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)

Figure 21. India Large-Tow Carbon Fiber (Above 48K) Consumption (2021-2032) & (Tons)

Figure 22. Producer Shipments of Large-Tow Carbon Fiber (Above 48K) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Large-Tow Carbon Fiber (Above 48K) Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Large-Tow Carbon Fiber (Above 48K) Markets in 2025

Figure 25. United States VS China: Large-Tow Carbon Fiber (Above 48K) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Large-Tow Carbon Fiber (Above 48K) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Large-Tow Carbon Fiber (Above 48K) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Market Share 2025

Figure 29. China Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Large-Tow Carbon Fiber (Above 48K) Production Market Share 2025

Figure 31. World Large-Tow Carbon Fiber (Above 48K) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Type in 2025

Figure 33. 48K

Figure 34. 60K

Figure 35. Other

Figure 36. World Large-Tow Carbon Fiber (Above 48K) Production Market Share by Type (2021-2032)

Figure 37. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Type (2021-2032)

Figure 38. World Large-Tow Carbon Fiber (Above 48K) Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Large-Tow Carbon Fiber (Above 48K) Production Value by Precursor, (USD Million), 2021 & 2025 & 2032

Figure 40. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Precursor in 2025

Figure 41. PAN-based

Figure 42. Pitch-based

Figure 43. Rayon-based

Figure 44. World Large-Tow Carbon Fiber (Above 48K) Production Market Share by Precursor (2021-2032)

Figure 45. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Precursor (2021-2032)

Figure 46. World Large-Tow Carbon Fiber (Above 48K) Average Price by Precursor (2021-2032) & (US\$/Ton)

Figure 47. World Large-Tow Carbon Fiber (Above 48K) Production Value by Surface Treatment, (USD Million), 2021 & 2025 & 2032

Figure 48. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Surface Treatment in 2025

Figure 49. Unsized

Figure 50. Sized

Figure 51. World Large-Tow Carbon Fiber (Above 48K) Production Market Share by Surface Treatment (2021-2032)

Figure 52. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Surface Treatment (2021-2032)

Figure 53. World Large-Tow Carbon Fiber (Above 48K) Average Price by Surface Treatment (2021-2032) & (US\$/Ton)

Figure 54. World Large-Tow Carbon Fiber (Above 48K) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Application in 2025

Figure 56. Wind Turbine Blades

Figure 57. Civil Engineering

Figure 58. Sports

Figure 59. Aerospace

Figure 60. Automotive

Figure 61. Other

Figure 62. World Large-Tow Carbon Fiber (Above 48K) Production Market Share by Application (2021-2032)

Figure 63. World Large-Tow Carbon Fiber (Above 48K) Production Value Market Share by Application (2021-2032)

Figure 64. World Large-Tow Carbon Fiber (Above 48K) Average Price by Application (2021-2032) & (US\$/Ton)

Figure 65. Large-Tow Carbon Fiber (Above 48K) Industry Chain

Figure 66. Large-Tow Carbon Fiber (Above 48K) Procurement Model

Figure 67. Large-Tow Carbon Fiber (Above 48K) Sales Model

Figure 68. Large-Tow Carbon Fiber (Above 48K) Sales Channels, Direct Sales, and

Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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