

Global Semiconductor Grade Carbon Fiber Soft Felts Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Grade Carbon Fiber Soft Felts market size is expected to reach \$ 49.81 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Semiconductor grade carbon fiber soft felt is a flexible thermal insulation material made from high-purity carbon fibers, exhibiting excellent thermal stability, low thermal conductivity, and good flexibility, widely used in semiconductor crystal growth equipment, high-temperature furnaces, and other applications.

In 2025, global sales of semiconductor grade carbon fiber soft felt reached approximately 868 tons, with an average global market price of around US\$ 39/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 50%.

Semiconductor grade carbon fiber soft felts are a relatively small niche within semiconductor materials, but they occupy a strategically important position in the thermal-field supply chain. They are not the active material that defines device performance, yet they are essential to temperature control, insulation efficiency, contamination management, and hot-zone reliability in silicon, silicon-carbide, and selected compound-semiconductor crystal-growth environments. Compared with general industrial carbon felts, this segment places much greater emphasis on purity, low ash, low outgassing, thermal stability, and lot-to-lot consistency. As a result, supplier qualification is demanding, customer validation cycles are long, and competition is driven more by materials engineering capability and process control than by simple price competition. The market therefore tends to favor companies with integrated know-how in precursor control, purification, graphitization, thermal-field

design, and semiconductor customer support.

The market outlook remains constructive over the medium to long term, but short-term demand can be uneven because it is closely tied to crystal-growth investment cycles, customer inventory strategies, and the pace of adoption in power semiconductors and advanced semiconductor materials. This is especially visible in the silicon-carbide chain, where thermal-field consumables may experience inventory swings before end-demand fully stabilizes. Even so, the direction of travel remains favorable: higher-performance semiconductors, broader use of wide-bandgap materials, tighter contamination control, and greater emphasis on energy efficiency all support continued demand for higher-purity and longer-life insulation solutions. Going forward, competitive advantage is likely to come less from headline capacity expansion alone and more from ultra-high-purity manufacturing capability, stable quality at scale, co-development with equipment makers and crystal growers, and the ability to provide localized supply with shorter validation-to-volume conversion cycles.

This report studies the global Semiconductor Grade Carbon Fiber Soft Felts production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Semiconductor Grade Carbon Fiber Soft Felts total production and demand, 2021-2032, (Tons)

Global Semiconductor Grade Carbon Fiber Soft Felts total production value, 2021-2032, (USD Million)

Global Semiconductor Grade Carbon Fiber Soft Felts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Semiconductor Grade Carbon Fiber Soft Felts consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Semiconductor Grade Carbon Fiber Soft Felts domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Grade Carbon Fiber Soft Felts production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Semiconductor Grade Carbon Fiber Soft Felts production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Semiconductor Grade Carbon Fiber Soft Felts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Semiconductor Grade Carbon Fiber Soft Felts 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 SGL Carbon, Mersen, Morgan Advanced Materials, Kureha, Nippon Carbon, Carbosystem, Graphite Materials, Semixlab Technology, Aoyida Advanced Materials, 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 Semiconductor Grade Carbon Fiber Soft Felts market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Semiconductor Grade Carbon Fiber Soft Felts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Grade Carbon Fiber Soft Felts Market, Segmentation by Type:

PAN-based

Rayon-based

Global Semiconductor Grade Carbon Fiber Soft Felts Market, Segmentation by Thickness:

Thin-Gauge

Medium-Gauge

Thick-Gauge

Global Semiconductor Grade Carbon Fiber Soft Felts Market, Segmentation by Supplied Form:

Roll Goods

Cut Sheets or Blankets

Other

Global Semiconductor Grade Carbon Fiber Soft Felts Market, Segmentation by Application:

Silicon Single-Crystal Growth Equipment

Silicon Carbide Crystal Growth Equipment

Polysilicon Production Equipment

Other

Companies Profiled:

SGL Carbon

Mersen

Morgan Advanced Materials

Kureha

Nippon Carbon

Carbosystem

Graphite Materials

Semixlab Technology

Aoyida Advanced Materials

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Semiconductor Grade Carbon Fiber Soft Felts Demand (2021-2032)
- 2.2 World Semiconductor Grade Carbon Fiber Soft Felts Consumption by Region
 - 2.2.1 World Semiconductor Grade Carbon Fiber Soft Felts Consumption by Region (2021-2026)
 - 2.2.2 World Semiconductor Grade Carbon Fiber Soft Felts Consumption Forecast by Region (2027-2032)
- 2.3 United States Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032)
- 2.4 China Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032)

2.5 Europe Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032)

2.6 Japan Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032)

2.7 South Korea Semiconductor Grade Carbon Fiber Soft Felts Consumption
(2021-2032)

2.8 ASEAN Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032)

2.9 India Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Semiconductor Grade Carbon Fiber Soft Felts Production Value by
Manufacturer (2021-2026)

3.2 World Semiconductor Grade Carbon Fiber Soft Felts Production by Manufacturer
(2021-2026)

3.3 World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Manufacturer
(2021-2026)

3.4 Semiconductor Grade Carbon Fiber Soft Felts Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Semiconductor Grade Carbon Fiber Soft Felts Industry Rank of Major
Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Semiconductor Grade Carbon Fiber Soft
Felts in 2025

3.5.3 Global Concentration Ratios (CR8) for Semiconductor Grade Carbon Fiber Soft
Felts in 2025

3.6 Semiconductor Grade Carbon Fiber Soft Felts Market: Overall Company Footprint
Analysis

3.6.1 Semiconductor Grade Carbon Fiber Soft Felts Market: Region Footprint

3.6.2 Semiconductor Grade Carbon Fiber Soft Felts Market: Company Product Type
Footprint

3.6.3 Semiconductor Grade Carbon Fiber Soft Felts 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: Semiconductor Grade Carbon Fiber Soft Felts Production Value Comparison
 - 4.1.1 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Production Comparison
 - 4.2.1 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Consumption Comparison
 - 4.3.1 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Value (2021-2026)
 - 4.4.3 United States Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2026)
- 4.5 China Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers and Market Share
 - 4.5.1 China Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2026)
- 4.6 Rest of World Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts

Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Semiconductor Grade Carbon Fiber Soft Felts Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 PAN-based

5.2.2 Rayon-based

5.3 Market Segment by Type

5.3.1 World Semiconductor Grade Carbon Fiber Soft Felts Production by Type (2021-2032)

5.3.2 World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Type (2021-2032)

5.3.3 World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY THICKNESS

6.1 World Semiconductor Grade Carbon Fiber Soft Felts Market Size Overview by Thickness: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Thickness

6.2.1 Thin-Gauge

6.2.2 Medium-Gauge

6.2.3 Thick-Gauge

6.3 Market Segment by Thickness

6.3.1 World Semiconductor Grade Carbon Fiber Soft Felts Production by Thickness (2021-2032)

6.3.2 World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Thickness (2021-2032)

6.3.3 World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Thickness (2021-2032)

7 MARKET ANALYSIS BY SUPPLIED FORM

7.1 World Semiconductor Grade Carbon Fiber Soft Felts Market Size Overview by Supplied Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Supplied Form

7.2.1 Roll Goods

7.2.2 Cut Sheets or Blankets

7.2.3 Other

7.3 Market Segment by Supplied Form

7.3.1 World Semiconductor Grade Carbon Fiber Soft Felts Production by Supplied Form (2021-2032)

7.3.2 World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Supplied Form (2021-2032)

7.3.3 World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Supplied Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Semiconductor Grade Carbon Fiber Soft Felts Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Silicon Single-Crystal Growth Equipment

8.2.2 Silicon Carbide Crystal Growth Equipment

8.2.3 Polysilicon Production Equipment

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Semiconductor Grade Carbon Fiber Soft Felts Production by Application (2021-2032)

8.3.2 World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Application (2021-2032)

8.3.3 World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 SGL Carbon

9.1.1 SGL Carbon Details

9.1.2 SGL Carbon Major Business

9.1.3 SGL Carbon Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.1.4 SGL Carbon Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 SGL Carbon Recent Developments/Updates

9.1.6 SGL Carbon Competitive Strengths & Weaknesses

9.2 Mersen

9.2.1 Mersen Details

9.2.2 Mersen Major Business

9.2.3 Mersen Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.2.4 Mersen Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Mersen Recent Developments/Updates

9.2.6 Mersen Competitive Strengths & Weaknesses

9.3 Morgan Advanced Materials

9.3.1 Morgan Advanced Materials Details

9.3.2 Morgan Advanced Materials Major Business

9.3.3 Morgan Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.3.4 Morgan Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Morgan Advanced Materials Recent Developments/Updates

9.3.6 Morgan Advanced Materials Competitive Strengths & Weaknesses

9.4 Kureha

9.4.1 Kureha Details

9.4.2 Kureha Major Business

9.4.3 Kureha Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.4.4 Kureha Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Kureha Recent Developments/Updates

9.4.6 Kureha Competitive Strengths & Weaknesses

9.5 Nippon Carbon

9.5.1 Nippon Carbon Details

9.5.2 Nippon Carbon Major Business

9.5.3 Nippon Carbon Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.5.4 Nippon Carbon Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Nippon Carbon Recent Developments/Updates

9.5.6 Nippon Carbon Competitive Strengths & Weaknesses

9.6 Carbosystem

9.6.1 Carbosystem Details

9.6.2 Carbosystem Major Business

9.6.3 Carbosystem Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.6.4 Carbosystem Semiconductor Grade Carbon Fiber Soft Felts Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.6.5 Carbosystem Recent Developments/Updates

9.6.6 Carbosystem Competitive Strengths & Weaknesses

9.7 Graphite Materials

9.7.1 Graphite Materials Details

9.7.2 Graphite Materials Major Business

9.7.3 Graphite Materials Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.7.4 Graphite Materials Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Graphite Materials Recent Developments/Updates

9.7.6 Graphite Materials Competitive Strengths & Weaknesses

9.8 Semixlab Technology

9.8.1 Semixlab Technology Details

9.8.2 Semixlab Technology Major Business

9.8.3 Semixlab Technology Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.8.4 Semixlab Technology Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Semixlab Technology Recent Developments/Updates

9.8.6 Semixlab Technology Competitive Strengths & Weaknesses

9.9 Aoyida Advanced Materials

9.9.1 Aoyida Advanced Materials Details

9.9.2 Aoyida Advanced Materials Major Business

9.9.3 Aoyida Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Product and Services

9.9.4 Aoyida Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Aoyida Advanced Materials Recent Developments/Updates

9.9.6 Aoyida Advanced Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Semiconductor Grade Carbon Fiber Soft Felts Industry Chain

10.2 Semiconductor Grade Carbon Fiber Soft Felts Upstream Analysis

10.2.1 Semiconductor Grade Carbon Fiber Soft Felts Core Raw Materials

10.2.2 Main Manufacturers of Semiconductor Grade Carbon Fiber Soft Felts Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Semiconductor Grade Carbon Fiber Soft Felts Production Mode

10.6 Semiconductor Grade Carbon Fiber Soft Felts Procurement Model

10.7 Semiconductor Grade Carbon Fiber Soft Felts Industry Sales Model and Sales Channels

10.7.1 Semiconductor Grade Carbon Fiber Soft Felts Sales Model

10.7.2 Semiconductor Grade Carbon Fiber Soft Felts 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 Semiconductor Grade Carbon Fiber Soft Felts Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Region (2021-2026) & (USD Million)

Table 3. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Region (2027-2032) & (USD Million)

Table 4. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Region (2021-2026)

Table 5. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Region (2027-2032)

Table 6. World Semiconductor Grade Carbon Fiber Soft Felts Production by Region (2021-2026) & (Tons)

Table 7. World Semiconductor Grade Carbon Fiber Soft Felts Production by Region (2027-2032) & (Tons)

Table 8. World Semiconductor Grade Carbon Fiber Soft Felts Production Market Share by Region (2021-2026)

Table 9. World Semiconductor Grade Carbon Fiber Soft Felts Production Market Share by Region (2027-2032)

Table 10. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Semiconductor Grade Carbon Fiber Soft Felts Major Market Trends

Table 13. World Semiconductor Grade Carbon Fiber Soft Felts Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Semiconductor Grade Carbon Fiber Soft Felts Consumption by Region (2021-2026) & (Tons)

Table 15. World Semiconductor Grade Carbon Fiber Soft Felts Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Semiconductor Grade Carbon Fiber Soft Felts Producers in 2025

Table 18. World Semiconductor Grade Carbon Fiber Soft Felts Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Semiconductor Grade Carbon Fiber Soft Felts Producers in 2025

Table 20. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Semiconductor Grade Carbon Fiber Soft Felts Company Evaluation Quadrant

Table 22. World Semiconductor Grade Carbon Fiber Soft Felts Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Semiconductor Grade Carbon Fiber Soft Felts Production Site of Key Manufacturer

Table 24. Semiconductor Grade Carbon Fiber Soft Felts Market: Company Product Type Footprint

Table 25. Semiconductor Grade Carbon Fiber Soft Felts Market: Company Product Application Footprint

Table 26. Semiconductor Grade Carbon Fiber Soft Felts Competitive Factors

Table 27. Semiconductor Grade Carbon Fiber Soft Felts New Entrant and Capacity Expansion Plans

Table 28. Semiconductor Grade Carbon Fiber Soft Felts Mergers & Acquisitions Activity

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

Table 30. United States VS China Semiconductor Grade Carbon Fiber Soft Felts Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Semiconductor Grade Carbon Fiber Soft Felts Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers, Headquarters and Production Site (States, Country)

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

Table 34. United States Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Market Share (2021-2026)

Table 37. China Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Market Share (2021-2026)

Table 42. Rest of World Based Semiconductor Grade Carbon Fiber Soft Felts Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Market Share (2021-2026)

Table 47. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Semiconductor Grade Carbon Fiber Soft Felts Production by Type (2021-2026) & (Tons)

Table 49. World Semiconductor Grade Carbon Fiber Soft Felts Production by Type (2027-2032) & (Tons)

Table 50. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Type (2021-2026) & (USD Million)

Table 51. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Type (2027-2032) & (USD Million)

Table 52. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Thickness, (USD Million), 2021 & 2025 & 2032

Table 55. World Semiconductor Grade Carbon Fiber Soft Felts Production by Thickness (2021-2026) & (Tons)

Table 56. World Semiconductor Grade Carbon Fiber Soft Felts Production by Thickness (2027-2032) & (Tons)

Table 57. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Thickness (2021-2026) & (USD Million)

Table 58. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Thickness (2027-2032) & (USD Million)

Table 59. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Thickness (2021-2026) & (US\$/kg)

Table 60. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Thickness (2027-2032) & (US\$/kg)

Table 61. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Supplied Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Semiconductor Grade Carbon Fiber Soft Felts Production by Supplied Form (2021-2026) & (Tons)

Table 63. World Semiconductor Grade Carbon Fiber Soft Felts Production by Supplied Form (2027-2032) & (Tons)

Table 64. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Supplied Form (2021-2026) & (USD Million)

Table 65. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Supplied Form (2027-2032) & (USD Million)

Table 66. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Supplied Form (2021-2026) & (US\$/kg)

Table 67. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Supplied Form (2027-2032) & (US\$/kg)

Table 68. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Semiconductor Grade Carbon Fiber Soft Felts Production by Application (2021-2026) & (Tons)

Table 70. World Semiconductor Grade Carbon Fiber Soft Felts Production by Application (2027-2032) & (Tons)

Table 71. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Application (2021-2026) & (USD Million)

Table 72. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Application (2027-2032) & (USD Million)

Table 73. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Application (2027-2032) & (US\$/kg)

Table 75. SGL Carbon Basic Information, Manufacturing Base and Competitors

Table 76. SGL Carbon Major Business

Table 77. SGL Carbon Semiconductor Grade Carbon Fiber Soft Felts Product and Services

Table 78. SGL Carbon Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SGL Carbon Recent Developments/Updates
Table 80. SGL Carbon Competitive Strengths & Weaknesses
Table 81. Mersen Basic Information, Manufacturing Base and Competitors
Table 82. Mersen Major Business
Table 83. Mersen Semiconductor Grade Carbon Fiber Soft Felts Product and Services
Table 84. Mersen Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Mersen Recent Developments/Updates
Table 86. Mersen Competitive Strengths & Weaknesses
Table 87. Morgan Advanced Materials Basic Information, Manufacturing Base and Competitors
Table 88. Morgan Advanced Materials Major Business
Table 89. Morgan Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Product and Services
Table 90. Morgan Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Morgan Advanced Materials Recent Developments/Updates
Table 92. Morgan Advanced Materials Competitive Strengths & Weaknesses
Table 93. Kureha Basic Information, Manufacturing Base and Competitors
Table 94. Kureha Major Business
Table 95. Kureha Semiconductor Grade Carbon Fiber Soft Felts Product and Services
Table 96. Kureha Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Kureha Recent Developments/Updates
Table 98. Kureha Competitive Strengths & Weaknesses
Table 99. Nippon Carbon Basic Information, Manufacturing Base and Competitors
Table 100. Nippon Carbon Major Business
Table 101. Nippon Carbon Semiconductor Grade Carbon Fiber Soft Felts Product and Services
Table 102. Nippon Carbon Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Nippon Carbon Recent Developments/Updates
Table 104. Nippon Carbon Competitive Strengths & Weaknesses
Table 105. Carbosystem Basic Information, Manufacturing Base and Competitors
Table 106. Carbosystem Major Business

Table 107. Carbosystem Semiconductor Grade Carbon Fiber Soft Felts Product and Services

Table 108. Carbosystem Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Carbosystem Recent Developments/Updates

Table 110. Carbosystem Competitive Strengths & Weaknesses

Table 111. Graphite Materials Basic Information, Manufacturing Base and Competitors

Table 112. Graphite Materials Major Business

Table 113. Graphite Materials Semiconductor Grade Carbon Fiber Soft Felts Product and Services

Table 114. Graphite Materials Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Graphite Materials Recent Developments/Updates

Table 116. Graphite Materials Competitive Strengths & Weaknesses

Table 117. Semixlab Technology Basic Information, Manufacturing Base and Competitors

Table 118. Semixlab Technology Major Business

Table 119. Semixlab Technology Semiconductor Grade Carbon Fiber Soft Felts Product and Services

Table 120. Semixlab Technology Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Semixlab Technology Recent Developments/Updates

Table 122. Semixlab Technology Competitive Strengths & Weaknesses

Table 123. Aoyida Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 124. Aoyida Advanced Materials Major Business

Table 125. Aoyida Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Product and Services

Table 126. Aoyida Advanced Materials Semiconductor Grade Carbon Fiber Soft Felts Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Aoyida Advanced Materials Recent Developments/Updates

Table 128. Aoyida Advanced Materials Competitive Strengths & Weaknesses

Table 129. Global Key Players of Semiconductor Grade Carbon Fiber Soft Felts Upstream (Raw Materials)

Table 130. Global Semiconductor Grade Carbon Fiber Soft Felts Typical Customers

Table 131. Semiconductor Grade Carbon Fiber Soft Felts Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Semiconductor Grade Carbon Fiber Soft Felts Picture

Figure 2. World Semiconductor Grade Carbon Fiber Soft Felts Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Semiconductor Grade Carbon Fiber Soft Felts Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2032) & (Tons)

Figure 5. World Semiconductor Grade Carbon Fiber Soft Felts Average Price (2021-2032) & (US\$/kg)

Figure 6. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Region (2021-2032)

Figure 7. World Semiconductor Grade Carbon Fiber Soft Felts Production Market Share by Region (2021-2032)

Figure 8. North America Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2032) & (Tons)

Figure 9. Europe Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2032) & (Tons)

Figure 10. China Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2032) & (Tons)

Figure 11. Japan Semiconductor Grade Carbon Fiber Soft Felts Production (2021-2032) & (Tons)

Figure 12. Semiconductor Grade Carbon Fiber Soft Felts Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

Figure 15. World Semiconductor Grade Carbon Fiber Soft Felts Consumption Market Share by Region (2021-2032)

Figure 16. United States Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

Figure 17. China Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

Figure 18. Europe Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

Figure 19. Japan Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

Figure 20. South Korea Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

Figure 22. India Semiconductor Grade Carbon Fiber Soft Felts Consumption (2021-2032) & (Tons)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for Semiconductor Grade Carbon Fiber Soft Felts Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Semiconductor Grade Carbon Fiber Soft Felts Markets in 2025

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

Figure 27. United States VS China: Semiconductor Grade Carbon Fiber Soft Felts Production Market Share Comparison (2021 & 2025 & 2032)

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

Figure 29. United States Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Market Share 2025

Figure 30. China Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Semiconductor Grade Carbon Fiber Soft Felts Production Market Share 2025

Figure 32. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Type in 2025

Figure 34. PAN-based

Figure 35. Rayon-based

Figure 36. World Semiconductor Grade Carbon Fiber Soft Felts Production Market Share by Type (2021-2032)

Figure 37. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Type (2021-2032)

Figure 38. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Thickness, (USD Million), 2021 & 2025 & 2032

Figure 40. World Semiconductor Grade Carbon Fiber Soft Felts Production Value

Market Share by Thickness in 2025

Figure 41. Thin-Gauge

Figure 42. Medium-Gauge

Figure 43. Thick-Gauge

Figure 44. World Semiconductor Grade Carbon Fiber Soft Felts Production Market Share by Thickness (2021-2032)

Figure 45. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Thickness (2021-2032)

Figure 46. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Thickness (2021-2032) & (US\$/kg)

Figure 47. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Supplied Form, (USD Million), 2021 & 2025 & 2032

Figure 48. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Supplied Form in 2025

Figure 49. Roll Goods

Figure 50. Cut Sheets or Blankets

Figure 51. Other

Figure 52. World Semiconductor Grade Carbon Fiber Soft Felts Production Market Share by Supplied Form (2021-2032)

Figure 53. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Supplied Form (2021-2032)

Figure 54. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Supplied Form (2021-2032) & (US\$/kg)

Figure 55. World Semiconductor Grade Carbon Fiber Soft Felts Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Application in 2025

Figure 57. Silicon Single-Crystal Growth Equipment

Figure 58. Silicon Carbide Crystal Growth Equipment

Figure 59. Polysilicon Production Equipment

Figure 60. Other

Figure 61. World Semiconductor Grade Carbon Fiber Soft Felts Production Market Share by Application (2021-2032)

Figure 62. World Semiconductor Grade Carbon Fiber Soft Felts Production Value Market Share by Application (2021-2032)

Figure 63. World Semiconductor Grade Carbon Fiber Soft Felts Average Price by Application (2021-2032) & (US\$/kg)

Figure 64. Semiconductor Grade Carbon Fiber Soft Felts Industry Chain

Figure 65. Semiconductor Grade Carbon Fiber Soft Felts Procurement Model

Figure 66. Semiconductor Grade Carbon Fiber Soft Felts Sales Model

Figure 67. Semiconductor Grade Carbon Fiber Soft Felts Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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