

Global Silicon Oxide Carbon Composite Anode Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Oxide Carbon Composite Anode Material market size is expected to reach \$ 2062 million by 2032, rising at a market growth of 30.3% CAGR during the forecast period (2026-2032).

Silicon Oxide Carbon Composite Anode Material is a high-performance lithium battery anode material that combines silicon oxide with carbon to significantly enhance energy density, cycle life, and structural stability while mitigating silicon expansion during lithiation, making it suitable for advanced consumer electronics and electric vehicle battery systems. In 2025, production was 19,632 tons and the average price was USD 16,300 per ton. The industry's capacity utilization rate in 2025 was about 70% and the average gross margin was around 29%. Upstream, key raw materials include high purity metallurgical silicon powder and high purity silica, with representative suppliers such as Elkem, Ferroglobe, Evonik, Cabot, and GCL Group providing essential inputs. The midstream segment focuses on silicon oxide reduction, carbon coating, nano-scale composite engineering, particle morphology control, slurry formulation and electrode integration, which jointly determine electrochemical performance, conductivity and structural durability. Downstream, Silicon Oxide Carbon Composite Anode Material is widely used in consumer electronics batteries and power batteries, with representative customers including Samsung Electronics, CATL, BYD, LG Energy Solution, and Panasonic.

Silicon oxide carbon composite anodes are currently establishing a solid niche in the high-end EV sector. Their primary advantage lies in superior cycle life and reduced volume expansion compared to pure silicon, making them ideal for current high-nickel battery systems. However, the technology faces headwinds due to inherently low initial

coulombic efficiency and high manufacturing costs. While standardization is improving, widespread adoption hinges on overcoming these economic and electrochemical barriers. The outlook remains cautiously optimistic, contingent on cost reduction and pre-lithiation breakthroughs.

This report studies the global Silicon Oxide Carbon Composite Anode Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Oxide Carbon Composite Anode Material 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 Silicon Oxide Carbon Composite Anode Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Oxide Carbon Composite Anode Material total production and demand, 2021-2032, (Tonnes)

Global Silicon Oxide Carbon Composite Anode Material total production value, 2021-2032, (USD Million)

Global Silicon Oxide Carbon Composite Anode Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes), (based on production site)

Global Silicon Oxide Carbon Composite Anode Material consumption by region & country, CAGR, 2021-2032 & (Tonnes)

U.S. VS China: Silicon Oxide Carbon Composite Anode Material domestic production, consumption, key domestic manufacturers and share

Global Silicon Oxide Carbon Composite Anode Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tonnes)

Global Silicon Oxide Carbon Composite Anode Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

Global Silicon Oxide Carbon Composite Anode Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

This report profiles key players in the global Silicon Oxide Carbon Composite Anode Material 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 Shin-Etsu Chemical?Japan?, BTR New Material Group?China?, Osaka Titanium

Technologies?Japan?, Resonac?Japan?, Daejoo Electronic Materials?South Korea?, Posco Chemical?South Korea?, Shanshan Corporation?China?, Chengdu Guibao Science & Technology?China?, Jiangxi Zhengtuo Energy?China?, Shanghai Putailai?China?, 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 Silicon Oxide Carbon Composite Anode Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tonnes) 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 Silicon Oxide Carbon Composite Anode Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Oxide Carbon Composite Anode Material Market, Segmentation by Type:

Powder

Slurry

Global Silicon Oxide Carbon Composite Anode Material Market, Segmentation by Process:

Standard

Pre-lithiated

Pre-magnesiated

Global Silicon Oxide Carbon Composite Anode Material Market, Segmentation by Specific Capacity:

400-800mAh/g

800-1200mAh/g

Others

Global Silicon Oxide Carbon Composite Anode Material Market, Segmentation by Application:

Power Battery

Consumer Battery

Others

Companies Profiled:

Shin-Etsu Chemical?Japan?

BTR New Material Group?China?

Osaka Titanium Technologies?Japan?

Resonac?Japan?

Daejoo Electronic Materials?South Korea?

Posco Chemical?South Korea?

Shanshan Corporation?China?

Chengdu Guibao Science & Technology?China?

Jiangxi Zhengtuo Energy?China?

Shanghai Putailai?China?

NanoGraf?USA?

Novacium?France?

Key Questions Answered:

1. How big is the global Silicon Oxide Carbon Composite Anode Material market?
2. What is the demand of the global Silicon Oxide Carbon Composite Anode Material market?
3. What is the year over year growth of the global Silicon Oxide Carbon Composite Anode Material market?
4. What is the production and production value of the global Silicon Oxide Carbon Composite Anode Material market?
5. Who are the key producers in the global Silicon Oxide Carbon Composite Anode Material market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Silicon Oxide Carbon Composite Anode Material Demand (2021-2032)
- 2.2 World Silicon Oxide Carbon Composite Anode Material Consumption by Region
 - 2.2.1 World Silicon Oxide Carbon Composite Anode Material Consumption by Region (2021-2026)
 - 2.2.2 World Silicon Oxide Carbon Composite Anode Material Consumption Forecast by Region (2027-2032)
- 2.3 United States Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032)

- 2.4 China Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032)
- 2.5 Europe Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032)
- 2.6 Japan Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032)
- 2.7 South Korea Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032)
- 2.8 ASEAN Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032)
- 2.9 India Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Silicon Oxide Carbon Composite Anode Material Production Value by Manufacturer (2021-2026)
- 3.2 World Silicon Oxide Carbon Composite Anode Material Production by Manufacturer (2021-2026)
- 3.3 World Silicon Oxide Carbon Composite Anode Material Average Price by Manufacturer (2021-2026)
- 3.4 Silicon Oxide Carbon Composite Anode Material Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Silicon Oxide Carbon Composite Anode Material Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Silicon Oxide Carbon Composite Anode Material in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Silicon Oxide Carbon Composite Anode Material in 2025
- 3.6 Silicon Oxide Carbon Composite Anode Material Market: Overall Company Footprint Analysis
 - 3.6.1 Silicon Oxide Carbon Composite Anode Material Market: Region Footprint
 - 3.6.2 Silicon Oxide Carbon Composite Anode Material Market: Company Product Type Footprint
 - 3.6.3 Silicon Oxide Carbon Composite Anode Material 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: Silicon Oxide Carbon Composite Anode Material Production Value Comparison

4.1.1 United States VS China: Silicon Oxide Carbon Composite Anode Material Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Silicon Oxide Carbon Composite Anode Material Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Silicon Oxide Carbon Composite Anode Material Production Comparison

4.2.1 United States VS China: Silicon Oxide Carbon Composite Anode Material Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Silicon Oxide Carbon Composite Anode Material Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Silicon Oxide Carbon Composite Anode Material Consumption Comparison

4.3.1 United States VS China: Silicon Oxide Carbon Composite Anode Material Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Silicon Oxide Carbon Composite Anode Material Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Silicon Oxide Carbon Composite Anode Material Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Silicon Oxide Carbon Composite Anode Material Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value (2021-2026)

4.4.3 United States Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production (2021-2026)

4.5 China Based Silicon Oxide Carbon Composite Anode Material Manufacturers and Market Share

4.5.1 China Based Silicon Oxide Carbon Composite Anode Material Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value (2021-2026)

4.5.3 China Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production (2021-2026)

4.6 Rest of World Based Silicon Oxide Carbon Composite Anode Material Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Silicon Oxide Carbon Composite Anode Material Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Silicon Oxide Carbon Composite Anode Material Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Powder

5.2.2 Slurry

5.3 Market Segment by Type

5.3.1 World Silicon Oxide Carbon Composite Anode Material Production by Type (2021-2032)

5.3.2 World Silicon Oxide Carbon Composite Anode Material Production Value by Type (2021-2032)

5.3.3 World Silicon Oxide Carbon Composite Anode Material Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PROCESS

6.1 World Silicon Oxide Carbon Composite Anode Material Market Size Overview by Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Process

6.2.1 Standard

6.2.2 Pre-lithiated

6.2.3 Pre-magnesiated

6.3 Market Segment by Process

6.3.1 World Silicon Oxide Carbon Composite Anode Material Production by Process (2021-2032)

6.3.2 World Silicon Oxide Carbon Composite Anode Material Production Value by Process (2021-2032)

6.3.3 World Silicon Oxide Carbon Composite Anode Material Average Price by Process (2021-2032)

7 MARKET ANALYSIS BY SPECIFIC CAPACITY

7.1 World Silicon Oxide Carbon Composite Anode Material Market Size Overview by

Specific Capacity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Specific Capacity

7.2.1 400-800mAh/g

7.2.2 800-1200mAh/g

7.2.3 Others

7.3 Market Segment by Specific Capacity

7.3.1 World Silicon Oxide Carbon Composite Anode Material Production by Specific Capacity (2021-2032)

7.3.2 World Silicon Oxide Carbon Composite Anode Material Production Value by Specific Capacity (2021-2032)

7.3.3 World Silicon Oxide Carbon Composite Anode Material Average Price by Specific Capacity (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Silicon Oxide Carbon Composite Anode Material Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Battery

8.2.2 Consumer Battery

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Silicon Oxide Carbon Composite Anode Material Production by Application (2021-2032)

8.3.2 World Silicon Oxide Carbon Composite Anode Material Production Value by Application (2021-2032)

8.3.3 World Silicon Oxide Carbon Composite Anode Material Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Shin-Etsu Chemical?Japan?

9.1.1 Shin-Etsu Chemical?Japan? Details

9.1.2 Shin-Etsu Chemical?Japan? Major Business

9.1.3 Shin-Etsu Chemical?Japan? Silicon Oxide Carbon Composite Anode Material Product and Services

9.1.4 Shin-Etsu Chemical?Japan? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Shin-Etsu Chemical?Japan? Recent Developments/Updates

- 9.1.6 Shin-Etsu Chemical?Japan? Competitive Strengths & Weaknesses
- 9.2 BTR New Material Group?China?
 - 9.2.1 BTR New Material Group?China? Details
 - 9.2.2 BTR New Material Group?China? Major Business
 - 9.2.3 BTR New Material Group?China? Silicon Oxide Carbon Composite Anode Material Product and Services
 - 9.2.4 BTR New Material Group?China? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 BTR New Material Group?China? Recent Developments/Updates
 - 9.2.6 BTR New Material Group?China? Competitive Strengths & Weaknesses
- 9.3 Osaka Titanium Technologies?Japan?
 - 9.3.1 Osaka Titanium Technologies?Japan? Details
 - 9.3.2 Osaka Titanium Technologies?Japan? Major Business
 - 9.3.3 Osaka Titanium Technologies?Japan? Silicon Oxide Carbon Composite Anode Material Product and Services
 - 9.3.4 Osaka Titanium Technologies?Japan? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Osaka Titanium Technologies?Japan? Recent Developments/Updates
 - 9.3.6 Osaka Titanium Technologies?Japan? Competitive Strengths & Weaknesses
- 9.4 Resonac?Japan?
 - 9.4.1 Resonac?Japan? Details
 - 9.4.2 Resonac?Japan? Major Business
 - 9.4.3 Resonac?Japan? Silicon Oxide Carbon Composite Anode Material Product and Services
 - 9.4.4 Resonac?Japan? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Resonac?Japan? Recent Developments/Updates
 - 9.4.6 Resonac?Japan? Competitive Strengths & Weaknesses
- 9.5 Daejoo Electronic Materials?South Korea?
 - 9.5.1 Daejoo Electronic Materials?South Korea? Details
 - 9.5.2 Daejoo Electronic Materials?South Korea? Major Business
 - 9.5.3 Daejoo Electronic Materials?South Korea? Silicon Oxide Carbon Composite Anode Material Product and Services
 - 9.5.4 Daejoo Electronic Materials?South Korea? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Daejoo Electronic Materials?South Korea? Recent Developments/Updates
 - 9.5.6 Daejoo Electronic Materials?South Korea? Competitive Strengths & Weaknesses
- 9.6 Posco Chemical?South Korea?
 - 9.6.1 Posco Chemical?South Korea? Details

- 9.6.2 Posco Chemical?South Korea? Major Business
- 9.6.3 Posco Chemical?South Korea? Silicon Oxide Carbon Composite Anode Material Product and Services
- 9.6.4 Posco Chemical?South Korea? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Posco Chemical?South Korea? Recent Developments/Updates
- 9.6.6 Posco Chemical?South Korea? Competitive Strengths & Weaknesses
- 9.7 Shanshan Corporation?China?
 - 9.7.1 Shanshan Corporation?China? Details
 - 9.7.2 Shanshan Corporation?China? Major Business
 - 9.7.3 Shanshan Corporation?China? Silicon Oxide Carbon Composite Anode Material Product and Services
 - 9.7.4 Shanshan Corporation?China? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Shanshan Corporation?China? Recent Developments/Updates
 - 9.7.6 Shanshan Corporation?China? Competitive Strengths & Weaknesses
- 9.8 Chengdu Guibao Science & Technology?China?
 - 9.8.1 Chengdu Guibao Science & Technology?China? Details
 - 9.8.2 Chengdu Guibao Science & Technology?China? Major Business
 - 9.8.3 Chengdu Guibao Science & Technology?China? Silicon Oxide Carbon Composite Anode Material Product and Services
 - 9.8.4 Chengdu Guibao Science & Technology?China? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Chengdu Guibao Science & Technology?China? Recent Developments/Updates
 - 9.8.6 Chengdu Guibao Science & Technology?China? Competitive Strengths & Weaknesses
- 9.9 Jiangxi Zhengtuo Energy?China?
 - 9.9.1 Jiangxi Zhengtuo Energy?China? Details
 - 9.9.2 Jiangxi Zhengtuo Energy?China? Major Business
 - 9.9.3 Jiangxi Zhengtuo Energy?China? Silicon Oxide Carbon Composite Anode Material Product and Services
 - 9.9.4 Jiangxi Zhengtuo Energy?China? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Jiangxi Zhengtuo Energy?China? Recent Developments/Updates
 - 9.9.6 Jiangxi Zhengtuo Energy?China? Competitive Strengths & Weaknesses
- 9.10 Shanghai Putailai?China?
 - 9.10.1 Shanghai Putailai?China? Details
 - 9.10.2 Shanghai Putailai?China? Major Business

9.10.3 Shanghai Putailai?China? Silicon Oxide Carbon Composite Anode Material Product and Services

9.10.4 Shanghai Putailai?China? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Shanghai Putailai?China? Recent Developments/Updates

9.10.6 Shanghai Putailai?China? Competitive Strengths & Weaknesses

9.11 NanoGraf?USA?

9.11.1 NanoGraf?USA? Details

9.11.2 NanoGraf?USA? Major Business

9.11.3 NanoGraf?USA? Silicon Oxide Carbon Composite Anode Material Product and Services

9.11.4 NanoGraf?USA? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 NanoGraf?USA? Recent Developments/Updates

9.11.6 NanoGraf?USA? Competitive Strengths & Weaknesses

9.12 Novacium?France?

9.12.1 Novacium?France? Details

9.12.2 Novacium?France? Major Business

9.12.3 Novacium?France? Silicon Oxide Carbon Composite Anode Material Product and Services

9.12.4 Novacium?France? Silicon Oxide Carbon Composite Anode Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Novacium?France? Recent Developments/Updates

9.12.6 Novacium?France? Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Silicon Oxide Carbon Composite Anode Material Industry Chain

10.2 Silicon Oxide Carbon Composite Anode Material Upstream Analysis

10.2.1 Silicon Oxide Carbon Composite Anode Material Core Raw Materials

10.2.2 Main Manufacturers of Silicon Oxide Carbon Composite Anode Material Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Silicon Oxide Carbon Composite Anode Material Production Mode

10.6 Silicon Oxide Carbon Composite Anode Material Procurement Model

10.7 Silicon Oxide Carbon Composite Anode Material Industry Sales Model and Sales Channels

10.7.1 Silicon Oxide Carbon Composite Anode Material Sales Model

10.7.2 Silicon Oxide Carbon Composite Anode Material 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 Silicon Oxide Carbon Composite Anode Material Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Silicon Oxide Carbon Composite Anode Material Production Value by Region (2021-2026) & (USD Million)

Table 3. World Silicon Oxide Carbon Composite Anode Material Production Value by Region (2027-2032) & (USD Million)

Table 4. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Region (2021-2026)

Table 5. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Region (2027-2032)

Table 6. World Silicon Oxide Carbon Composite Anode Material Production by Region (2021-2026) & (Tonnes)

Table 7. World Silicon Oxide Carbon Composite Anode Material Production by Region (2027-2032) & (Tonnes)

Table 8. World Silicon Oxide Carbon Composite Anode Material Production Market Share by Region (2021-2026)

Table 9. World Silicon Oxide Carbon Composite Anode Material Production Market Share by Region (2027-2032)

Table 10. World Silicon Oxide Carbon Composite Anode Material Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Silicon Oxide Carbon Composite Anode Material Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Silicon Oxide Carbon Composite Anode Material Major Market Trends

Table 13. World Silicon Oxide Carbon Composite Anode Material Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tonnes)

Table 14. World Silicon Oxide Carbon Composite Anode Material Consumption by Region (2021-2026) & (Tonnes)

Table 15. World Silicon Oxide Carbon Composite Anode Material Consumption Forecast by Region (2027-2032) & (Tonnes)

Table 16. World Silicon Oxide Carbon Composite Anode Material Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Silicon Oxide Carbon Composite Anode Material Producers in 2025

Table 18. World Silicon Oxide Carbon Composite Anode Material Production by Manufacturer (2021-2026) & (Tonnes)

Table 19. Production Market Share of Key Silicon Oxide Carbon Composite Anode Material Producers in 2025

Table 20. World Silicon Oxide Carbon Composite Anode Material Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Silicon Oxide Carbon Composite Anode Material Company Evaluation Quadrant

Table 22. World Silicon Oxide Carbon Composite Anode Material Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Silicon Oxide Carbon Composite Anode Material Production Site of Key Manufacturer

Table 24. Silicon Oxide Carbon Composite Anode Material Market: Company Product Type Footprint

Table 25. Silicon Oxide Carbon Composite Anode Material Market: Company Product Application Footprint

Table 26. Silicon Oxide Carbon Composite Anode Material Competitive Factors

Table 27. Silicon Oxide Carbon Composite Anode Material New Entrant and Capacity Expansion Plans

Table 28. Silicon Oxide Carbon Composite Anode Material Mergers & Acquisitions Activity

Table 29. United States VS China Silicon Oxide Carbon Composite Anode Material Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Silicon Oxide Carbon Composite Anode Material Production Comparison, (2021 & 2025 & 2032) & (Tonnes)

Table 31. United States VS China Silicon Oxide Carbon Composite Anode Material Consumption Comparison, (2021 & 2025 & 2032) & (Tonnes)

Table 32. United States Based Silicon Oxide Carbon Composite Anode Material Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production (2021-2026) & (Tonnes)

Table 36. United States Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Market Share (2021-2026)

Table 37. China Based Silicon Oxide Carbon Composite Anode Material Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production, (2021-2026) & (Tonnes)

Table 41. China Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Market Share (2021-2026)

Table 42. Rest of World Based Silicon Oxide Carbon Composite Anode Material Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production, (2021-2026) & (Tonnes)

Table 46. Rest of World Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Market Share (2021-2026)

Table 47. World Silicon Oxide Carbon Composite Anode Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Silicon Oxide Carbon Composite Anode Material Production by Type (2021-2026) & (Tonnes)

Table 49. World Silicon Oxide Carbon Composite Anode Material Production by Type (2027-2032) & (Tonnes)

Table 50. World Silicon Oxide Carbon Composite Anode Material Production Value by Type (2021-2026) & (USD Million)

Table 51. World Silicon Oxide Carbon Composite Anode Material Production Value by Type (2027-2032) & (USD Million)

Table 52. World Silicon Oxide Carbon Composite Anode Material Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Silicon Oxide Carbon Composite Anode Material Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Silicon Oxide Carbon Composite Anode Material Production Value by Process, (USD Million), 2021 & 2025 & 2032

Table 55. World Silicon Oxide Carbon Composite Anode Material Production by Process (2021-2026) & (Tonnes)

Table 56. World Silicon Oxide Carbon Composite Anode Material Production by Process (2027-2032) & (Tonnes)

Table 57. World Silicon Oxide Carbon Composite Anode Material Production Value by Process (2021-2026) & (USD Million)

Table 58. World Silicon Oxide Carbon Composite Anode Material Production Value by

Process (2027-2032) & (USD Million)

Table 59. World Silicon Oxide Carbon Composite Anode Material Average Price by Process (2021-2026) & (US\$/Ton)

Table 60. World Silicon Oxide Carbon Composite Anode Material Average Price by Process (2027-2032) & (US\$/Ton)

Table 61. World Silicon Oxide Carbon Composite Anode Material Production Value by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Table 62. World Silicon Oxide Carbon Composite Anode Material Production by Specific Capacity (2021-2026) & (Tonnes)

Table 63. World Silicon Oxide Carbon Composite Anode Material Production by Specific Capacity (2027-2032) & (Tonnes)

Table 64. World Silicon Oxide Carbon Composite Anode Material Production Value by Specific Capacity (2021-2026) & (USD Million)

Table 65. World Silicon Oxide Carbon Composite Anode Material Production Value by Specific Capacity (2027-2032) & (USD Million)

Table 66. World Silicon Oxide Carbon Composite Anode Material Average Price by Specific Capacity (2021-2026) & (US\$/Ton)

Table 67. World Silicon Oxide Carbon Composite Anode Material Average Price by Specific Capacity (2027-2032) & (US\$/Ton)

Table 68. World Silicon Oxide Carbon Composite Anode Material Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Silicon Oxide Carbon Composite Anode Material Production by Application (2021-2026) & (Tonnes)

Table 70. World Silicon Oxide Carbon Composite Anode Material Production by Application (2027-2032) & (Tonnes)

Table 71. World Silicon Oxide Carbon Composite Anode Material Production Value by Application (2021-2026) & (USD Million)

Table 72. World Silicon Oxide Carbon Composite Anode Material Production Value by Application (2027-2032) & (USD Million)

Table 73. World Silicon Oxide Carbon Composite Anode Material Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Silicon Oxide Carbon Composite Anode Material Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Shin-Etsu Chemical?Japan? Basic Information, Manufacturing Base and Competitors

Table 76. Shin-Etsu Chemical?Japan? Major Business

Table 77. Shin-Etsu Chemical?Japan? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 78. Shin-Etsu Chemical?Japan? Silicon Oxide Carbon Composite Anode Material

Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Shin-Etsu Chemical?Japan? Recent Developments/Updates

Table 80. Shin-Etsu Chemical?Japan? Competitive Strengths & Weaknesses

Table 81. BTR New Material Group?China? Basic Information, Manufacturing Base and Competitors

Table 82. BTR New Material Group?China? Major Business

Table 83. BTR New Material Group?China? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 84. BTR New Material Group?China? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. BTR New Material Group?China? Recent Developments/Updates

Table 86. BTR New Material Group?China? Competitive Strengths & Weaknesses

Table 87. Osaka Titanium Technologies?Japan? Basic Information, Manufacturing Base and Competitors

Table 88. Osaka Titanium Technologies?Japan? Major Business

Table 89. Osaka Titanium Technologies?Japan? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 90. Osaka Titanium Technologies?Japan? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Osaka Titanium Technologies?Japan? Recent Developments/Updates

Table 92. Osaka Titanium Technologies?Japan? Competitive Strengths & Weaknesses

Table 93. Resonac?Japan? Basic Information, Manufacturing Base and Competitors

Table 94. Resonac?Japan? Major Business

Table 95. Resonac?Japan? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 96. Resonac?Japan? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Resonac?Japan? Recent Developments/Updates

Table 98. Resonac?Japan? Competitive Strengths & Weaknesses

Table 99. Daejoo Electronic Materials?South Korea? Basic Information, Manufacturing Base and Competitors

Table 100. Daejoo Electronic Materials?South Korea? Major Business

Table 101. Daejoo Electronic Materials?South Korea? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 102. Daejoo Electronic Materials?South Korea? Silicon Oxide Carbon Composite

Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Daejoo Electronic Materials?South Korea? Recent Developments/Updates

Table 104. Daejoo Electronic Materials?South Korea? Competitive Strengths & Weaknesses

Table 105. Posco Chemical?South Korea? Basic Information, Manufacturing Base and Competitors

Table 106. Posco Chemical?South Korea? Major Business

Table 107. Posco Chemical?South Korea? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 108. Posco Chemical?South Korea? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Posco Chemical?South Korea? Recent Developments/Updates

Table 110. Posco Chemical?South Korea? Competitive Strengths & Weaknesses

Table 111. Shanshan Corporation?China? Basic Information, Manufacturing Base and Competitors

Table 112. Shanshan Corporation?China? Major Business

Table 113. Shanshan Corporation?China? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 114. Shanshan Corporation?China? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Shanshan Corporation?China? Recent Developments/Updates

Table 116. Shanshan Corporation?China? Competitive Strengths & Weaknesses

Table 117. Chengdu Guibao Science & Technology?China? Basic Information, Manufacturing Base and Competitors

Table 118. Chengdu Guibao Science & Technology?China? Major Business

Table 119. Chengdu Guibao Science & Technology?China? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 120. Chengdu Guibao Science & Technology?China? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Chengdu Guibao Science & Technology?China? Recent Developments/Updates

Table 122. Chengdu Guibao Science & Technology?China? Competitive Strengths & Weaknesses

Table 123. Jiangxi Zhengtuo Energy?China? Basic Information, Manufacturing Base and Competitors

Table 124. Jiangxi Zhengtuo Energy?China? Major Business

Table 125. Jiangxi Zhengtuo Energy?China? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 126. Jiangxi Zhengtuo Energy?China? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Jiangxi Zhengtuo Energy?China? Recent Developments/Updates

Table 128. Jiangxi Zhengtuo Energy?China? Competitive Strengths & Weaknesses

Table 129. Shanghai Putailai?China? Basic Information, Manufacturing Base and Competitors

Table 130. Shanghai Putailai?China? Major Business

Table 131. Shanghai Putailai?China? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 132. Shanghai Putailai?China? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shanghai Putailai?China? Recent Developments/Updates

Table 134. Shanghai Putailai?China? Competitive Strengths & Weaknesses

Table 135. NanoGraf?USA? Basic Information, Manufacturing Base and Competitors

Table 136. NanoGraf?USA? Major Business

Table 137. NanoGraf?USA? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 138. NanoGraf?USA? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. NanoGraf?USA? Recent Developments/Updates

Table 140. NanoGraf?USA? Competitive Strengths & Weaknesses

Table 141. Novacium?France? Basic Information, Manufacturing Base and Competitors

Table 142. Novacium?France? Major Business

Table 143. Novacium?France? Silicon Oxide Carbon Composite Anode Material Product and Services

Table 144. Novacium?France? Silicon Oxide Carbon Composite Anode Material Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Novacium?France? Recent Developments/Updates

Table 146. Novacium?France? Competitive Strengths & Weaknesses

Table 147. Global Key Players of Silicon Oxide Carbon Composite Anode Material Upstream (Raw Materials)

Table 148. Global Silicon Oxide Carbon Composite Anode Material Typical Customers

Table 149. Silicon Oxide Carbon Composite Anode Material Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Silicon Oxide Carbon Composite Anode Material Picture

Figure 2. World Silicon Oxide Carbon Composite Anode Material Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Silicon Oxide Carbon Composite Anode Material Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Silicon Oxide Carbon Composite Anode Material Production (2021-2032) & (Tonnes)

Figure 5. World Silicon Oxide Carbon Composite Anode Material Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Region (2021-2032)

Figure 7. World Silicon Oxide Carbon Composite Anode Material Production Market Share by Region (2021-2032)

Figure 8. North America Silicon Oxide Carbon Composite Anode Material Production (2021-2032) & (Tonnes)

Figure 9. Europe Silicon Oxide Carbon Composite Anode Material Production (2021-2032) & (Tonnes)

Figure 10. China Silicon Oxide Carbon Composite Anode Material Production (2021-2032) & (Tonnes)

Figure 11. Japan Silicon Oxide Carbon Composite Anode Material Production (2021-2032) & (Tonnes)

Figure 12. Silicon Oxide Carbon Composite Anode Material Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 15. World Silicon Oxide Carbon Composite Anode Material Consumption Market Share by Region (2021-2032)

Figure 16. United States Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 17. China Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 18. Europe Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 19. Japan Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 20. South Korea Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 21. ASEAN Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 22. India Silicon Oxide Carbon Composite Anode Material Consumption (2021-2032) & (Tonnes)

Figure 23. Producer Shipments of Silicon Oxide Carbon Composite Anode Material by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Silicon Oxide Carbon Composite Anode Material Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Silicon Oxide Carbon Composite Anode Material Markets in 2025

Figure 26. United States VS China: Silicon Oxide Carbon Composite Anode Material Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Silicon Oxide Carbon Composite Anode Material Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Silicon Oxide Carbon Composite Anode Material Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Market Share 2025

Figure 30. China Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Silicon Oxide Carbon Composite Anode Material Production Market Share 2025

Figure 32. World Silicon Oxide Carbon Composite Anode Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Type in 2025

Figure 34. Powder

Figure 35. Slurry

Figure 36. World Silicon Oxide Carbon Composite Anode Material Production Market Share by Type (2021-2032)

Figure 37. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Type (2021-2032)

Figure 38. World Silicon Oxide Carbon Composite Anode Material Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Silicon Oxide Carbon Composite Anode Material Production Value by Process, (USD Million), 2021 & 2025 & 2032

Figure 40. World Silicon Oxide Carbon Composite Anode Material Production Value

Market Share by Process in 2025

Figure 41. Standard

Figure 42. Pre-lithiated

Figure 43. Pre-magnesiated

Figure 44. World Silicon Oxide Carbon Composite Anode Material Production Market Share by Process (2021-2032)

Figure 45. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Process (2021-2032)

Figure 46. World Silicon Oxide Carbon Composite Anode Material Average Price by Process (2021-2032) & (US\$/Ton)

Figure 47. World Silicon Oxide Carbon Composite Anode Material Production Value by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Figure 48. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Specific Capacity in 2025

Figure 49. 400-800mAh/g

Figure 50. 800-1200mAh/g

Figure 51. Others

Figure 52. World Silicon Oxide Carbon Composite Anode Material Production Market Share by Specific Capacity (2021-2032)

Figure 53. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Specific Capacity (2021-2032)

Figure 54. World Silicon Oxide Carbon Composite Anode Material Average Price by Specific Capacity (2021-2032) & (US\$/Ton)

Figure 55. World Silicon Oxide Carbon Composite Anode Material Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Application in 2025

Figure 57. Power Battery

Figure 58. Consumer Battery

Figure 59. Others

Figure 60. World Silicon Oxide Carbon Composite Anode Material Production Market Share by Application (2021-2032)

Figure 61. World Silicon Oxide Carbon Composite Anode Material Production Value Market Share by Application (2021-2032)

Figure 62. World Silicon Oxide Carbon Composite Anode Material Average Price by Application (2021-2032) & (US\$/Ton)

Figure 63. Silicon Oxide Carbon Composite Anode Material Industry Chain

Figure 64. Silicon Oxide Carbon Composite Anode Material Procurement Model

Figure 65. Silicon Oxide Carbon Composite Anode Material Sales Model

Figure 66. Silicon Oxide Carbon Composite Anode Material Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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