

Global Carbon-coated SiO Anode Material Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Carbon-coated SiO Anode Material market size was valued at US\$ 329 million in 2025 and is forecast to a readjusted size of US\$ 2062 million by 2032 with a CAGR of 30.3% during review period.

Carbon-coated SiO Anode Material is a high-performance lithium-ion battery anode material engineered by applying a carbon coating on silicon oxide particles to improve electronic conductivity, buffer volume expansion, and enhance cycle stability and rate performance, making it suitable for advanced consumer electronics and electric vehicle battery systems requiring higher energy density. 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 particle formation, carbon coating deposition technology, surface interface engineering, nano-structuring control, slurry formulation optimization and electrode integration processes, which together determine conductivity efficiency, structural stability and electrochemical durability. Downstream, Carbon-coated SiO Anode Material is widely used in consumer electronics batteries and power batteries, with representative customers including Samsung Electronics, Contemporary Amperex Technology Co., Limited, BYD Company Limited, LG Energy Solution and Panasonic.

Carbon-coated SiO anode materials have established themselves as the pragmatic choice for current high-energy-density batteries, particularly in premium EVs and

consumer electronics. The carbon shell effectively buffers volume expansion, securing superior cycle life compared to pure silicon. As the industry advances, continuous breakthroughs in pre-lithiation technologies are steadily elevating initial efficiency, while manufacturing processes are becoming increasingly standardized and cost-effective. These ongoing optimizations ensure that carbon-coated SiO will continue to play a vital and enduring role in the evolution of next-generation energy storage solutions.

This report is a detailed and comprehensive analysis for global Carbon-coated SiO Anode Material market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Carbon-coated SiO Anode Material market size and forecasts, in consumption value (\$ Million), sales quantity (Tonnes), and average selling prices (US\$/Ton), 2021-2032

Global Carbon-coated SiO Anode Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tonnes), and average selling prices (US\$/Ton), 2021-2032

Global Carbon-coated SiO Anode Material market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tonnes), and average selling prices (US\$/Ton), 2021-2032

Global Carbon-coated SiO Anode Material market shares of main players, shipments in revenue (\$ Million), sales quantity (Tonnes), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Carbon-coated SiO Anode Material

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon-coated SiO Anode Material market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Carbon-coated SiO Anode Material market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Powder

Slurry

Market segment by Process

Standard

Pre-lithiated

Pre-magnesiated

Market segment by Specific Capacity

400-800mAh/g

800-1200mAh/g

Others

Market segment by Application

Power Battery

Consumer Battery

Others

Major players covered

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?

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon-coated SiO Anode Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon-coated SiO Anode Material, with price, sales quantity, revenue, and global market share of Carbon-coated SiO Anode Material from 2021 to 2026.

Chapter 3, the Carbon-coated SiO Anode Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon-coated SiO Anode Material breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Carbon-coated SiO Anode Material market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon-coated SiO Anode Material.

Chapter 14 and 15, to describe Carbon-coated SiO Anode Material sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Carbon-coated SiO Anode Material Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Powder

1.3.3 Slurry

1.4 Market Analysis by Process

1.4.1 Overview: Global Carbon-coated SiO Anode Material Consumption Value by Process: 2021 Versus 2025 Versus 2032

1.4.2 Standard

1.4.3 Pre-lithiated

1.4.4 Pre-magnesiated

1.5 Market Analysis by Specific Capacity

1.5.1 Overview: Global Carbon-coated SiO Anode Material Consumption Value by Specific Capacity: 2021 Versus 2025 Versus 2032

1.5.2 400-800mAh/g

1.5.3 800-1200mAh/g

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Carbon-coated SiO Anode Material Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Power Battery

1.6.3 Consumer Battery

1.6.4 Others

1.7 Global Carbon-coated SiO Anode Material Market Size & Forecast

1.7.1 Global Carbon-coated SiO Anode Material Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Carbon-coated SiO Anode Material Sales Quantity (2021-2032)

1.7.3 Global Carbon-coated SiO Anode Material Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Shin-Etsu Chemical?Japan?

2.1.1 Shin-Etsu Chemical?Japan? Details

- 2.1.2 Shin-Etsu Chemical?Japan? Major Business
- 2.1.3 Shin-Etsu Chemical?Japan? Carbon-coated SiO Anode Material Product and Services
- 2.1.4 Shin-Etsu Chemical?Japan? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Shin-Etsu Chemical?Japan? Recent Developments/Updates
- 2.2 BTR New Material Group?China?
 - 2.2.1 BTR New Material Group?China? Details
 - 2.2.2 BTR New Material Group?China? Major Business
 - 2.2.3 BTR New Material Group?China? Carbon-coated SiO Anode Material Product and Services
 - 2.2.4 BTR New Material Group?China? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.2.5 BTR New Material Group?China? Recent Developments/Updates
- 2.3 Osaka Titanium Technologies?Japan?
 - 2.3.1 Osaka Titanium Technologies?Japan? Details
 - 2.3.2 Osaka Titanium Technologies?Japan? Major Business
 - 2.3.3 Osaka Titanium Technologies?Japan? Carbon-coated SiO Anode Material Product and Services
 - 2.3.4 Osaka Titanium Technologies?Japan? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Osaka Titanium Technologies?Japan? Recent Developments/Updates
- 2.4 Resonac?Japan?
 - 2.4.1 Resonac?Japan? Details
 - 2.4.2 Resonac?Japan? Major Business
 - 2.4.3 Resonac?Japan? Carbon-coated SiO Anode Material Product and Services
 - 2.4.4 Resonac?Japan? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 Resonac?Japan? Recent Developments/Updates
- 2.5 Daejoo Electronic Materials?South Korea?
 - 2.5.1 Daejoo Electronic Materials?South Korea? Details
 - 2.5.2 Daejoo Electronic Materials?South Korea? Major Business
 - 2.5.3 Daejoo Electronic Materials?South Korea? Carbon-coated SiO Anode Material Product and Services
 - 2.5.4 Daejoo Electronic Materials?South Korea? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Daejoo Electronic Materials?South Korea? Recent Developments/Updates
- 2.6 Posco Chemical?South Korea?
 - 2.6.1 Posco Chemical?South Korea? Details

- 2.6.2 Posco Chemical?South Korea? Major Business
- 2.6.3 Posco Chemical?South Korea? Carbon-coated SiO Anode Material Product and Services
- 2.6.4 Posco Chemical?South Korea? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Posco Chemical?South Korea? Recent Developments/Updates
- 2.7 Shanshan Corporation?China?
 - 2.7.1 Shanshan Corporation?China? Details
 - 2.7.2 Shanshan Corporation?China? Major Business
 - 2.7.3 Shanshan Corporation?China? Carbon-coated SiO Anode Material Product and Services
 - 2.7.4 Shanshan Corporation?China? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Shanshan Corporation?China? Recent Developments/Updates
- 2.8 Chengdu Guibao Science & Technology?China?
 - 2.8.1 Chengdu Guibao Science & Technology?China? Details
 - 2.8.2 Chengdu Guibao Science & Technology?China? Major Business
 - 2.8.3 Chengdu Guibao Science & Technology?China? Carbon-coated SiO Anode Material Product and Services
 - 2.8.4 Chengdu Guibao Science & Technology?China? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Chengdu Guibao Science & Technology?China? Recent Developments/Updates
- 2.9 Jiangxi Zhengtuo Energy?China?
 - 2.9.1 Jiangxi Zhengtuo Energy?China? Details
 - 2.9.2 Jiangxi Zhengtuo Energy?China? Major Business
 - 2.9.3 Jiangxi Zhengtuo Energy?China? Carbon-coated SiO Anode Material Product and Services
 - 2.9.4 Jiangxi Zhengtuo Energy?China? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Jiangxi Zhengtuo Energy?China? Recent Developments/Updates
- 2.10 Shanghai Putailai?China?
 - 2.10.1 Shanghai Putailai?China? Details
 - 2.10.2 Shanghai Putailai?China? Major Business
 - 2.10.3 Shanghai Putailai?China? Carbon-coated SiO Anode Material Product and Services
 - 2.10.4 Shanghai Putailai?China? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Shanghai Putailai?China? Recent Developments/Updates

2.11 NanoGraf?USA?

2.11.1 NanoGraf?USA? Details

2.11.2 NanoGraf?USA? Major Business

2.11.3 NanoGraf?USA? Carbon-coated SiO Anode Material Product and Services

2.11.4 NanoGraf?USA? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 NanoGraf?USA? Recent Developments/Updates

2.12 Novacium?France?

2.12.1 Novacium?France? Details

2.12.2 Novacium?France? Major Business

2.12.3 Novacium?France? Carbon-coated SiO Anode Material Product and Services

2.12.4 Novacium?France? Carbon-coated SiO Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Novacium?France? Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: CARBON-COATED SiO ANODE MATERIAL BY MANUFACTURER

3.1 Global Carbon-coated SiO Anode Material Sales Quantity by Manufacturer (2021-2026)

3.2 Global Carbon-coated SiO Anode Material Revenue by Manufacturer (2021-2026)

3.3 Global Carbon-coated SiO Anode Material Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Carbon-coated SiO Anode Material by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Carbon-coated SiO Anode Material Manufacturer Market Share in 2025

3.4.3 Top 6 Carbon-coated SiO Anode Material Manufacturer Market Share in 2025

3.5 Carbon-coated SiO Anode Material Market: Overall Company Footprint Analysis

3.5.1 Carbon-coated SiO Anode Material Market: Region Footprint

3.5.2 Carbon-coated SiO Anode Material Market: Company Product Type Footprint

3.5.3 Carbon-coated SiO Anode Material Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Carbon-coated SiO Anode Material Market Size by Region

- 4.1.1 Global Carbon-coated SiO Anode Material Sales Quantity by Region (2021-2032)
- 4.1.2 Global Carbon-coated SiO Anode Material Consumption Value by Region (2021-2032)
- 4.1.3 Global Carbon-coated SiO Anode Material Average Price by Region (2021-2032)
- 4.2 North America Carbon-coated SiO Anode Material Consumption Value (2021-2032)
- 4.3 Europe Carbon-coated SiO Anode Material Consumption Value (2021-2032)
- 4.4 Asia-Pacific Carbon-coated SiO Anode Material Consumption Value (2021-2032)
- 4.5 South America Carbon-coated SiO Anode Material Consumption Value (2021-2032)
- 4.6 Middle East & Africa Carbon-coated SiO Anode Material Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2032)
- 5.2 Global Carbon-coated SiO Anode Material Consumption Value by Type (2021-2032)
- 5.3 Global Carbon-coated SiO Anode Material Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2032)
- 6.2 Global Carbon-coated SiO Anode Material Consumption Value by Application (2021-2032)
- 6.3 Global Carbon-coated SiO Anode Material Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2032)
- 7.2 North America Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2032)
- 7.3 North America Carbon-coated SiO Anode Material Market Size by Country
 - 7.3.1 North America Carbon-coated SiO Anode Material Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Carbon-coated SiO Anode Material Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2032)

8.2 Europe Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2032)

8.3 Europe Carbon-coated SiO Anode Material Market Size by Country

8.3.1 Europe Carbon-coated SiO Anode Material Sales Quantity by Country (2021-2032)

8.3.2 Europe Carbon-coated SiO Anode Material Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Carbon-coated SiO Anode Material Market Size by Region

9.3.1 Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Carbon-coated SiO Anode Material Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2032)
- 10.2 South America Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2032)
- 10.3 South America Carbon-coated SiO Anode Material Market Size by Country
 - 10.3.1 South America Carbon-coated SiO Anode Material Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Carbon-coated SiO Anode Material Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Carbon-coated SiO Anode Material Market Size by Country
 - 11.3.1 Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Carbon-coated SiO Anode Material Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Carbon-coated SiO Anode Material Market Drivers
- 12.2 Carbon-coated SiO Anode Material Market Restraints
- 12.3 Carbon-coated SiO Anode Material Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Carbon-coated SiO Anode Material and Key Manufacturers

13.2 Manufacturing Costs Percentage of Carbon-coated SiO Anode Material

13.3 Carbon-coated SiO Anode Material Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Carbon-coated SiO Anode Material Typical Distributors

14.3 Carbon-coated SiO Anode Material Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Carbon-coated SiO Anode Material Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Carbon-coated SiO Anode Material Consumption Value by Process, (USD Million), 2021 & 2025 & 2032

Table 3. Global Carbon-coated SiO Anode Material Consumption Value by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Table 4. Global Carbon-coated SiO Anode Material Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Shin-Etsu Chemical?Japan? Basic Information, Manufacturing Base and Competitors

Table 6. Shin-Etsu Chemical?Japan? Major Business

Table 7. Shin-Etsu Chemical?Japan? Carbon-coated SiO Anode Material Product and Services

Table 8. Shin-Etsu Chemical?Japan? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Shin-Etsu Chemical?Japan? Recent Developments/Updates

Table 10. BTR New Material Group?China? Basic Information, Manufacturing Base and Competitors

Table 11. BTR New Material Group?China? Major Business

Table 12. BTR New Material Group?China? Carbon-coated SiO Anode Material Product and Services

Table 13. BTR New Material Group?China? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. BTR New Material Group?China? Recent Developments/Updates

Table 15. Osaka Titanium Technologies?Japan? Basic Information, Manufacturing Base and Competitors

Table 16. Osaka Titanium Technologies?Japan? Major Business

Table 17. Osaka Titanium Technologies?Japan? Carbon-coated SiO Anode Material Product and Services

Table 18. Osaka Titanium Technologies?Japan? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Osaka Titanium Technologies?Japan? Recent Developments/Updates

Table 20. Resonac?Japan? Basic Information, Manufacturing Base and Competitors

Table 21. Resonac?Japan? Major Business

Table 22. Resonac?Japan? Carbon-coated SiO Anode Material Product and Services

Table 23. Resonac?Japan? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Resonac?Japan? Recent Developments/Updates

Table 25. Daejoo Electronic Materials?South Korea? Basic Information, Manufacturing Base and Competitors

Table 26. Daejoo Electronic Materials?South Korea? Major Business

Table 27. Daejoo Electronic Materials?South Korea? Carbon-coated SiO Anode Material Product and Services

Table 28. Daejoo Electronic Materials?South Korea? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Daejoo Electronic Materials?South Korea? Recent Developments/Updates

Table 30. Posco Chemical?South Korea? Basic Information, Manufacturing Base and Competitors

Table 31. Posco Chemical?South Korea? Major Business

Table 32. Posco Chemical?South Korea? Carbon-coated SiO Anode Material Product and Services

Table 33. Posco Chemical?South Korea? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Posco Chemical?South Korea? Recent Developments/Updates

Table 35. Shanshan Corporation?China? Basic Information, Manufacturing Base and Competitors

Table 36. Shanshan Corporation?China? Major Business

Table 37. Shanshan Corporation?China? Carbon-coated SiO Anode Material Product and Services

Table 38. Shanshan Corporation?China? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Shanshan Corporation?China? Recent Developments/Updates

Table 40. Chengdu Guibao Science & Technology?China? Basic Information, Manufacturing Base and Competitors

Table 41. Chengdu Guibao Science & Technology?China? Major Business

Table 42. Chengdu Guibao Science & Technology?China? Carbon-coated SiO Anode Material Product and Services

Table 43. Chengdu Guibao Science & Technology?China? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Chengdu Guibao Science & Technology?China? Recent Developments/Updates

Table 45. Jiangxi Zhengtuo Energy?China? Basic Information, Manufacturing Base and Competitors

Table 46. Jiangxi Zhengtuo Energy?China? Major Business

Table 47. Jiangxi Zhengtuo Energy?China? Carbon-coated SiO Anode Material Product and Services

Table 48. Jiangxi Zhengtuo Energy?China? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Jiangxi Zhengtuo Energy?China? Recent Developments/Updates

Table 50. Shanghai Putailai?China? Basic Information, Manufacturing Base and Competitors

Table 51. Shanghai Putailai?China? Major Business

Table 52. Shanghai Putailai?China? Carbon-coated SiO Anode Material Product and Services

Table 53. Shanghai Putailai?China? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Shanghai Putailai?China? Recent Developments/Updates

Table 55. NanoGraf?USA? Basic Information, Manufacturing Base and Competitors

Table 56. NanoGraf?USA? Major Business

Table 57. NanoGraf?USA? Carbon-coated SiO Anode Material Product and Services

Table 58. NanoGraf?USA? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. NanoGraf?USA? Recent Developments/Updates

Table 60. Novacium?France? Basic Information, Manufacturing Base and Competitors

Table 61. Novacium?France? Major Business

Table 62. Novacium?France? Carbon-coated SiO Anode Material Product and Services

Table 63. Novacium?France? Carbon-coated SiO Anode Material Sales Quantity (Tonnes), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Novacium?France? Recent Developments/Updates

Table 65. Global Carbon-coated SiO Anode Material Sales Quantity by Manufacturer (2021-2026) & (Tonnes)

Table 66. Global Carbon-coated SiO Anode Material Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Carbon-coated SiO Anode Material Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 68. Market Position of Manufacturers in Carbon-coated SiO Anode Material, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Carbon-coated SiO Anode Material Production Site of Key Manufacturer

Table 70. Carbon-coated SiO Anode Material Market: Company Product Type Footprint

Table 71. Carbon-coated SiO Anode Material Market: Company Product Application Footprint

Table 72. Carbon-coated SiO Anode Material New Market Entrants and Barriers to Market Entry

Table 73. Carbon-coated SiO Anode Material Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Carbon-coated SiO Anode Material Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Carbon-coated SiO Anode Material Sales Quantity by Region (2021-2026) & (Tonnes)

Table 76. Global Carbon-coated SiO Anode Material Sales Quantity by Region (2027-2032) & (Tonnes)

Table 77. Global Carbon-coated SiO Anode Material Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Carbon-coated SiO Anode Material Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Carbon-coated SiO Anode Material Average Price by Region (2021-2026) & (US\$/Ton)

Table 80. Global Carbon-coated SiO Anode Material Average Price by Region (2027-2032) & (US\$/Ton)

Table 81. Global Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2026) & (Tonnes)

Table 82. Global Carbon-coated SiO Anode Material Sales Quantity by Type (2027-2032) & (Tonnes)

Table 83. Global Carbon-coated SiO Anode Material Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Carbon-coated SiO Anode Material Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Carbon-coated SiO Anode Material Average Price by Type (2021-2026) & (US\$/Ton)

- Table 86. Global Carbon-coated SiO Anode Material Average Price by Type (2027-2032) & (US\$/Ton)
- Table 87. Global Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2026) & (Tonnes)
- Table 88. Global Carbon-coated SiO Anode Material Sales Quantity by Application (2027-2032) & (Tonnes)
- Table 89. Global Carbon-coated SiO Anode Material Consumption Value by Application (2021-2026) & (USD Million)
- Table 90. Global Carbon-coated SiO Anode Material Consumption Value by Application (2027-2032) & (USD Million)
- Table 91. Global Carbon-coated SiO Anode Material Average Price by Application (2021-2026) & (US\$/Ton)
- Table 92. Global Carbon-coated SiO Anode Material Average Price by Application (2027-2032) & (US\$/Ton)
- Table 93. North America Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2026) & (Tonnes)
- Table 94. North America Carbon-coated SiO Anode Material Sales Quantity by Type (2027-2032) & (Tonnes)
- Table 95. North America Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2026) & (Tonnes)
- Table 96. North America Carbon-coated SiO Anode Material Sales Quantity by Application (2027-2032) & (Tonnes)
- Table 97. North America Carbon-coated SiO Anode Material Sales Quantity by Country (2021-2026) & (Tonnes)
- Table 98. North America Carbon-coated SiO Anode Material Sales Quantity by Country (2027-2032) & (Tonnes)
- Table 99. North America Carbon-coated SiO Anode Material Consumption Value by Country (2021-2026) & (USD Million)
- Table 100. North America Carbon-coated SiO Anode Material Consumption Value by Country (2027-2032) & (USD Million)
- Table 101. Europe Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2026) & (Tonnes)
- Table 102. Europe Carbon-coated SiO Anode Material Sales Quantity by Type (2027-2032) & (Tonnes)
- Table 103. Europe Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2026) & (Tonnes)
- Table 104. Europe Carbon-coated SiO Anode Material Sales Quantity by Application (2027-2032) & (Tonnes)
- Table 105. Europe Carbon-coated SiO Anode Material Sales Quantity by Country

(2021-2026) & (Tonnes)

Table 106. Europe Carbon-coated SiO Anode Material Sales Quantity by Country (2027-2032) & (Tonnes)

Table 107. Europe Carbon-coated SiO Anode Material Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Carbon-coated SiO Anode Material Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2026) & (Tonnes)

Table 110. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Type (2027-2032) & (Tonnes)

Table 111. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2026) & (Tonnes)

Table 112. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Application (2027-2032) & (Tonnes)

Table 113. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Region (2021-2026) & (Tonnes)

Table 114. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity by Region (2027-2032) & (Tonnes)

Table 115. Asia-Pacific Carbon-coated SiO Anode Material Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Carbon-coated SiO Anode Material Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2026) & (Tonnes)

Table 118. South America Carbon-coated SiO Anode Material Sales Quantity by Type (2027-2032) & (Tonnes)

Table 119. South America Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2026) & (Tonnes)

Table 120. South America Carbon-coated SiO Anode Material Sales Quantity by Application (2027-2032) & (Tonnes)

Table 121. South America Carbon-coated SiO Anode Material Sales Quantity by Country (2021-2026) & (Tonnes)

Table 122. South America Carbon-coated SiO Anode Material Sales Quantity by Country (2027-2032) & (Tonnes)

Table 123. South America Carbon-coated SiO Anode Material Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Carbon-coated SiO Anode Material Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Type (2021-2026) & (Tonnes)

Table 126. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Type (2027-2032) & (Tonnes)

Table 127. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Application (2021-2026) & (Tonnes)

Table 128. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Application (2027-2032) & (Tonnes)

Table 129. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Country (2021-2026) & (Tonnes)

Table 130. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity by Country (2027-2032) & (Tonnes)

Table 131. Middle East & Africa Carbon-coated SiO Anode Material Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Carbon-coated SiO Anode Material Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Carbon-coated SiO Anode Material Raw Material

Table 134. Key Manufacturers of Carbon-coated SiO Anode Material Raw Materials

Table 135. Carbon-coated SiO Anode Material Typical Distributors

Table 136. Carbon-coated SiO Anode Material Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Carbon-coated SiO Anode Material Picture

Figure 2. Global Carbon-coated SiO Anode Material Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Carbon-coated SiO Anode Material Revenue Market Share by Type in 2025

Figure 4. Powder Examples

Figure 5. Slurry Examples

Figure 6. Global Carbon-coated SiO Anode Material Revenue by Process, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Carbon-coated SiO Anode Material Revenue Market Share by Process in 2025

Figure 8. Standard Examples

Figure 9. Pre-lithiated Examples

Figure 10. Pre-magnesiated Examples

Figure 11. Global Carbon-coated SiO Anode Material Revenue by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Carbon-coated SiO Anode Material Revenue Market Share by Specific Capacity in 2025

Figure 13. 400-800mAh/g Examples

Figure 14. 800-1200mAh/g Examples

Figure 15. Others Examples

Figure 16. Global Carbon-coated SiO Anode Material Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Carbon-coated SiO Anode Material Revenue Market Share by Application in 2025

Figure 18. Power Battery Examples

Figure 19. Consumer Battery Examples

Figure 20. Others Examples

Figure 21. Global Carbon-coated SiO Anode Material Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global Carbon-coated SiO Anode Material Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global Carbon-coated SiO Anode Material Sales Quantity (2021-2032) & (Tonnes)

Figure 24. Global Carbon-coated SiO Anode Material Price (2021-2032) & (US\$/Ton)

Figure 25. Global Carbon-coated SiO Anode Material Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global Carbon-coated SiO Anode Material Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of Carbon-coated SiO Anode Material by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 Carbon-coated SiO Anode Material Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 Carbon-coated SiO Anode Material Manufacturer (Revenue) Market Share in 2025

Figure 30. Global Carbon-coated SiO Anode Material Sales Quantity Market Share by Region (2021-2032)

Figure 31. Global Carbon-coated SiO Anode Material Consumption Value Market Share by Region (2021-2032)

Figure 32. North America Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 33. Europe Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 34. Asia-Pacific Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 35. South America Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 36. Middle East & Africa Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 37. Global Carbon-coated SiO Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 38. Global Carbon-coated SiO Anode Material Consumption Value Market Share by Type (2021-2032)

Figure 39. Global Carbon-coated SiO Anode Material Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. Global Carbon-coated SiO Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 41. Global Carbon-coated SiO Anode Material Revenue Market Share by Application (2021-2032)

Figure 42. Global Carbon-coated SiO Anode Material Average Price by Application (2021-2032) & (US\$/Ton)

Figure 43. North America Carbon-coated SiO Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 44. North America Carbon-coated SiO Anode Material Sales Quantity Market

Share by Application (2021-2032)

Figure 45. North America Carbon-coated SiO Anode Material Sales Quantity Market

Share by Country (2021-2032)

Figure 46. North America Carbon-coated SiO Anode Material Consumption Value

Market Share by Country (2021-2032)

Figure 47. United States Carbon-coated SiO Anode Material Consumption Value
(2021-2032) & (USD Million)

Figure 48. Canada Carbon-coated SiO Anode Material Consumption Value (2021-2032)
& (USD Million)

Figure 49. Mexico Carbon-coated SiO Anode Material Consumption Value (2021-2032)
& (USD Million)

Figure 50. Europe Carbon-coated SiO Anode Material Sales Quantity Market Share by
Type (2021-2032)

Figure 51. Europe Carbon-coated SiO Anode Material Sales Quantity Market Share by
Application (2021-2032)

Figure 52. Europe Carbon-coated SiO Anode Material Sales Quantity Market Share by
Country (2021-2032)

Figure 53. Europe Carbon-coated SiO Anode Material Consumption Value Market
Share by Country (2021-2032)

Figure 54. Germany Carbon-coated SiO Anode Material Consumption Value
(2021-2032) & (USD Million)

Figure 55. France Carbon-coated SiO Anode Material Consumption Value (2021-2032)
& (USD Million)

Figure 56. United Kingdom Carbon-coated SiO Anode Material Consumption Value
(2021-2032) & (USD Million)

Figure 57. Russia Carbon-coated SiO Anode Material Consumption Value (2021-2032)
& (USD Million)

Figure 58. Italy Carbon-coated SiO Anode Material Consumption Value (2021-2032) &
(USD Million)

Figure 59. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity Market Share
by Type (2021-2032)

Figure 60. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity Market Share
by Application (2021-2032)

Figure 61. Asia-Pacific Carbon-coated SiO Anode Material Sales Quantity Market Share
by Region (2021-2032)

Figure 62. Asia-Pacific Carbon-coated SiO Anode Material Consumption Value Market
Share by Region (2021-2032)

Figure 63. China Carbon-coated SiO Anode Material Consumption Value (2021-2032) &
(USD Million)

Figure 64. Japan Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 66. India Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 69. South America Carbon-coated SiO Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America Carbon-coated SiO Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America Carbon-coated SiO Anode Material Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America Carbon-coated SiO Anode Material Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa Carbon-coated SiO Anode Material Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa Carbon-coated SiO Anode Material Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa Carbon-coated SiO Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 83. Carbon-coated SiO Anode Material Market Drivers

- Figure 84. Carbon-coated SiO Anode Material Market Restraints
- Figure 85. Carbon-coated SiO Anode Material Market Trends
- Figure 86. Porters Five Forces Analysis
- Figure 87. Manufacturing Cost Structure Analysis of Carbon-coated SiO Anode Material in 2025
- Figure 88. Manufacturing Process Analysis of Carbon-coated SiO Anode Material
- Figure 89. Carbon-coated SiO Anode Material Industrial Chain
- Figure 90. Sales Channel: Direct to End-User vs Distributors
- Figure 91. Direct Channel Pros & Cons
- Figure 92. Indirect Channel Pros & Cons
- Figure 93. Methodology
- Figure 94. Research Process and Data Source

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