

Global CVD Silicon 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 CVD Silicon Anode Material market size was valued at US\$ 104 million in 2025 and is forecast to a readjusted size of US\$ 263 million by 2032 with a CAGR of 14.4% during review period.

CVD silicon anode material is a high-performance lithium-ion battery anode material prepared using chemical vapor deposition (CVD) technology, primarily using silicon as the core active material. Silicon is considered a crucial material for next-generation high-energy-density lithium-ion batteries due to its extremely high theoretical specific capacity (4200 mAh/g, approximately 10 times that of traditional graphite anodes). The CVD silicon anode material preparation process can significantly optimize the structural properties of silicon materials, thereby overcoming the shortcomings of silicon anodes in cycle life and charge-discharge stability. Currently, silicon-carbon anodes are priced at \$60,000 per ton, and the long-term cost is expected to drop to below \$30,000 per ton, driving a surge in industry demand. Global sales in 2024 are estimated at approximately 1,500 tons.

CVD silicon anode materials, a key branch of silicon-based anode materials, have demonstrated tremendous potential in recent years in power batteries and energy storage. Chemical vapor deposition (CVD) technology enables the controlled growth of silicon nanostructures, significantly improving cycle life and charge-discharge stability. The CVD silicon-carbon route boasts excellent performance, a maturing process, and significant development potential. Its core principle is to store silicon within a porous carbon framework and to buffer the volume expansion of silicon during lithium insertion through the interstices within the porous carbon. With the rapid growth of the electric vehicle market and the increasing demand for high-energy-density batteries, CVD

silicon anode materials are expected to accelerate their industrialization. In the coming years, research and development will focus on increasing silicon content, optimizing the carbon coating structure, and improving initial coulombic efficiency and cycle life. Furthermore, CVD materials offer significant synergy with solid-state batteries, with their dense carbon layer helping to suppress silicon volume expansion and extend battery life.

This report is a detailed and comprehensive analysis for global CVD Silicon 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 CVD Silicon Anode Material market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

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

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

Global CVD Silicon Anode Material market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 CVD Silicon 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 CVD Silicon 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 Group14 Technologies, Sila Nanotechnologies, Amprius, Lanxi Zhide, Nexeon, Yuling New Energy, Tianmulake Excellent Anode Materials (IOPSILION), BTR New Material, Beijing iAmetal, Novusilicon, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

CVD Silicon 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

Biomass Carbon Materials

Polymer Resin Materials

Others

Market segment by Equipment

Deposition Equipment: Rotary Kiln

Deposition Equipment: Fluidized Bed

Market segment by Shape

Powder Type

Film Type

Other

Market segment by Application

Power Batteries

Consumer Batteries

Others

Major players covered

Group14 Technologies

Sila Nanotechnologies

Amprius

Lanxi Zhide

Nexeon

Yuling New Energy

Tianmulake Excellent Anode Materials (IOPSILION)

BTR New Material

Beijing iAmetal

Novusilicon

GUIBAO

Shanghai PTL

Shanshan

Shida Shinghwa

Zhejiang Saile New Energy

Sichuan Jili New Energy Technology

SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY

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 CVD Silicon Anode Material product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the CVD Silicon Anode Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the CVD Silicon 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 CVD Silicon 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 CVD Silicon Anode Material.

Chapter 14 and 15, to describe CVD Silicon 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 CVD Silicon Anode Material Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Biomass Carbon Materials

1.3.3 Polymer Resin Materials

1.3.4 Others

1.4 Market Analysis by Equipment

1.4.1 Overview: Global CVD Silicon Anode Material Consumption Value by Equipment: 2021 Versus 2025 Versus 2032

1.4.2 Deposition Equipment: Rotary Kiln

1.4.3 Deposition Equipment: Fluidized Bed

1.5 Market Analysis by Application

1.5.1 Overview: Global CVD Silicon Anode Material Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Power Batteries

1.5.3 Consumer Batteries

1.5.4 Others

1.6 Global CVD Silicon Anode Material Market Size & Forecast

1.6.1 Global CVD Silicon Anode Material Consumption Value (2021 & 2025 & 2032)

1.6.2 Global CVD Silicon Anode Material Sales Quantity (2021-2032)

1.6.3 Global CVD Silicon Anode Material Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Group

2.1.1 Group 14 Details

2.1.2 Group 14 Major Business

2.1.3 Group 14 CVD Silicon Anode Material Product and Services

2.1.4 Group 14 CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Group 14 Recent Developments/Updates

2.2 UNIST

2.2.1 UNIST Details

- 2.2.2 UNIST Major Business
- 2.2.3 UNIST CVD Silicon Anode Material Product and Services
- 2.2.4 UNIST CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 UNIST Recent Developments/Updates
- 2.3 Tianmulake Excellent Anode Materials
 - 2.3.1 Tianmulake Excellent Anode Materials Details
 - 2.3.2 Tianmulake Excellent Anode Materials Major Business
 - 2.3.3 Tianmulake Excellent Anode Materials CVD Silicon Anode Material Product and Services
 - 2.3.4 Tianmulake Excellent Anode Materials CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.3.5 Tianmulake Excellent Anode Materials Recent Developments/Updates
- 2.4 LANXI ZHIDE ADVANCED MATERIALS
 - 2.4.1 LANXI ZHIDE ADVANCED MATERIALS Details
 - 2.4.2 LANXI ZHIDE ADVANCED MATERIALS Major Business
 - 2.4.3 LANXI ZHIDE ADVANCED MATERIALS CVD Silicon Anode Material Product and Services
 - 2.4.4 LANXI ZHIDE ADVANCED MATERIALS CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.4.5 LANXI ZHIDE ADVANCED MATERIALS Recent Developments/Updates
- 2.5 Shanghai Putailai New Energy Technology
 - 2.5.1 Shanghai Putailai New Energy Technology Details
 - 2.5.2 Shanghai Putailai New Energy Technology Major Business
 - 2.5.3 Shanghai Putailai New Energy Technology CVD Silicon Anode Material Product and Services
 - 2.5.4 Shanghai Putailai New Energy Technology CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Shanghai Putailai New Energy Technology Recent Developments/Updates
- 2.6 BTR New Material Group
 - 2.6.1 BTR New Material Group Details
 - 2.6.2 BTR New Material Group Major Business
 - 2.6.3 BTR New Material Group CVD Silicon Anode Material Product and Services
 - 2.6.4 BTR New Material Group CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 BTR New Material Group Recent Developments/Updates
- 2.7 NINGBO SHANSHAN
 - 2.7.1 NINGBO SHANSHAN Details
 - 2.7.2 NINGBO SHANSHAN Major Business

- 2.7.3 NINGBO SHANSHAN CVD Silicon Anode Material Product and Services
- 2.7.4 NINGBO SHANSHAN CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 NINGBO SHANSHAN Recent Developments/Updates
- 2.8 Sichuan Changhong Electric
 - 2.8.1 Sichuan Changhong Electric Details
 - 2.8.2 Sichuan Changhong Electric Major Business
 - 2.8.3 Sichuan Changhong Electric CVD Silicon Anode Material Product and Services
 - 2.8.4 Sichuan Changhong Electric CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Sichuan Changhong Electric Recent Developments/Updates
- 2.9 Zhejiang Saile New Energy
 - 2.9.1 Zhejiang Saile New Energy Details
 - 2.9.2 Zhejiang Saile New Energy Major Business
 - 2.9.3 Zhejiang Saile New Energy CVD Silicon Anode Material Product and Services
 - 2.9.4 Zhejiang Saile New Energy CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Zhejiang Saile New Energy Recent Developments/Updates
- 2.10 Novusilicon
 - 2.10.1 Novusilicon Details
 - 2.10.2 Novusilicon Major Business
 - 2.10.3 Novusilicon CVD Silicon Anode Material Product and Services
 - 2.10.4 Novusilicon CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Novusilicon Recent Developments/Updates
- 2.11 Sichuan Jili New Energy Technology
 - 2.11.1 Sichuan Jili New Energy Technology Details
 - 2.11.2 Sichuan Jili New Energy Technology Major Business
 - 2.11.3 Sichuan Jili New Energy Technology CVD Silicon Anode Material Product and Services
 - 2.11.4 Sichuan Jili New Energy Technology CVD Silicon Anode Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Sichuan Jili New Energy Technology Recent Developments/Updates
- 2.12 SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY
 - 2.12.1 SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY Details
 - 2.12.2 SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY Major Business
 - 2.12.3 SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY CVD Silicon Anode Material Product and Services
 - 2.12.4 SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY CVD Silicon Anode

Material Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: CVD SILICON ANODE MATERIAL BY MANUFACTURER

3.1 Global CVD Silicon Anode Material Sales Quantity by Manufacturer (2021-2026)

3.2 Global CVD Silicon Anode Material Revenue by Manufacturer (2021-2026)

3.3 Global CVD Silicon Anode Material Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of CVD Silicon Anode Material by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 CVD Silicon Anode Material Manufacturer Market Share in 2025

3.4.3 Top 6 CVD Silicon Anode Material Manufacturer Market Share in 2025

3.5 CVD Silicon Anode Material Market: Overall Company Footprint Analysis

3.5.1 CVD Silicon Anode Material Market: Region Footprint

3.5.2 CVD Silicon Anode Material Market: Company Product Type Footprint

3.5.3 CVD Silicon 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 CVD Silicon Anode Material Market Size by Region

4.1.1 Global CVD Silicon Anode Material Sales Quantity by Region (2021-2032)

4.1.2 Global CVD Silicon Anode Material Consumption Value by Region (2021-2032)

4.1.3 Global CVD Silicon Anode Material Average Price by Region (2021-2032)

4.2 North America CVD Silicon Anode Material Consumption Value (2021-2032)

4.3 Europe CVD Silicon Anode Material Consumption Value (2021-2032)

4.4 Asia-Pacific CVD Silicon Anode Material Consumption Value (2021-2032)

4.5 South America CVD Silicon Anode Material Consumption Value (2021-2032)

4.6 Middle East & Africa CVD Silicon Anode Material Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global CVD Silicon Anode Material Sales Quantity by Type (2021-2032)

5.2 Global CVD Silicon Anode Material Consumption Value by Type (2021-2032)

5.3 Global CVD Silicon Anode Material Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global CVD Silicon Anode Material Sales Quantity by Application (2021-2032)

6.2 Global CVD Silicon Anode Material Consumption Value by Application (2021-2032)

6.3 Global CVD Silicon Anode Material Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America CVD Silicon Anode Material Sales Quantity by Type (2021-2032)

7.2 North America CVD Silicon Anode Material Sales Quantity by Application (2021-2032)

7.3 North America CVD Silicon Anode Material Market Size by Country

7.3.1 North America CVD Silicon Anode Material Sales Quantity by Country (2021-2032)

7.3.2 North America CVD Silicon 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 CVD Silicon Anode Material Sales Quantity by Type (2021-2032)

8.2 Europe CVD Silicon Anode Material Sales Quantity by Application (2021-2032)

8.3 Europe CVD Silicon Anode Material Market Size by Country

8.3.1 Europe CVD Silicon Anode Material Sales Quantity by Country (2021-2032)

8.3.2 Europe CVD Silicon 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 CVD Silicon Anode Material Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific CVD Silicon Anode Material Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific CVD Silicon Anode Material Market Size by Region

9.3.1 Asia-Pacific CVD Silicon Anode Material Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific CVD Silicon 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 CVD Silicon Anode Material Sales Quantity by Type (2021-2032)

10.2 South America CVD Silicon Anode Material Sales Quantity by Application (2021-2032)

10.3 South America CVD Silicon Anode Material Market Size by Country

10.3.1 South America CVD Silicon Anode Material Sales Quantity by Country (2021-2032)

10.3.2 South America CVD Silicon 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 CVD Silicon Anode Material Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa CVD Silicon Anode Material Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa CVD Silicon Anode Material Market Size by Country

11.3.1 Middle East & Africa CVD Silicon Anode Material Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa CVD Silicon 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 CVD Silicon Anode Material Market Drivers
- 12.2 CVD Silicon Anode Material Market Restraints
- 12.3 CVD Silicon 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 CVD Silicon Anode Material and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of CVD Silicon Anode Material
- 13.3 CVD Silicon 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 CVD Silicon Anode Material Typical Distributors
- 14.3 CVD Silicon 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 CVD Silicon Anode Material Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global CVD Silicon Anode Material Consumption Value by Equipment, (USD Million), 2021 & 2025 & 2032

Table 3. Global CVD Silicon Anode Material Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Group 14 Basic Information, Manufacturing Base and Competitors

Table 5. Group 14 Major Business

Table 6. Group 14 CVD Silicon Anode Material Product and Services

Table 7. Group 14 CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Group 14 Recent Developments/Updates

Table 9. UNIST Basic Information, Manufacturing Base and Competitors

Table 10. UNIST Major Business

Table 11. UNIST CVD Silicon Anode Material Product and Services

Table 12. UNIST CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. UNIST Recent Developments/Updates

Table 14. Tianmulake Excellent Anode Materials Basic Information, Manufacturing Base and Competitors

Table 15. Tianmulake Excellent Anode Materials Major Business

Table 16. Tianmulake Excellent Anode Materials CVD Silicon Anode Material Product and Services

Table 17. Tianmulake Excellent Anode Materials CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Tianmulake Excellent Anode Materials Recent Developments/Updates

Table 19. LANXI ZHIDE ADVANCED MATERIALS Basic Information, Manufacturing Base and Competitors

Table 20. LANXI ZHIDE ADVANCED MATERIALS Major Business

Table 21. LANXI ZHIDE ADVANCED MATERIALS CVD Silicon Anode Material Product and Services

Table 22. LANXI ZHIDE ADVANCED MATERIALS CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. LANXI ZHIDE ADVANCED MATERIALS Recent Developments/Updates
Table 24. Shanghai Putailai New Energy Technology Basic Information, Manufacturing Base and Competitors
Table 25. Shanghai Putailai New Energy Technology Major Business
Table 26. Shanghai Putailai New Energy Technology CVD Silicon Anode Material Product and Services
Table 27. Shanghai Putailai New Energy Technology CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 28. Shanghai Putailai New Energy Technology Recent Developments/Updates
Table 29. BTR New Material Group Basic Information, Manufacturing Base and Competitors
Table 30. BTR New Material Group Major Business
Table 31. BTR New Material Group CVD Silicon Anode Material Product and Services
Table 32. BTR New Material Group CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 33. BTR New Material Group Recent Developments/Updates
Table 34. NINGBO SHANSHAN Basic Information, Manufacturing Base and Competitors
Table 35. NINGBO SHANSHAN Major Business
Table 36. NINGBO SHANSHAN CVD Silicon Anode Material Product and Services
Table 37. NINGBO SHANSHAN CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 38. NINGBO SHANSHAN Recent Developments/Updates
Table 39. Sichuan Changhong Electric Basic Information, Manufacturing Base and Competitors
Table 40. Sichuan Changhong Electric Major Business
Table 41. Sichuan Changhong Electric CVD Silicon Anode Material Product and Services
Table 42. Sichuan Changhong Electric CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 43. Sichuan Changhong Electric Recent Developments/Updates
Table 44. Zhejiang Saile New Energy Basic Information, Manufacturing Base and Competitors
Table 45. Zhejiang Saile New Energy Major Business
Table 46. Zhejiang Saile New Energy CVD Silicon Anode Material Product and Services

Table 47. Zhejiang Saile New Energy CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. Zhejiang Saile New Energy Recent Developments/Updates

Table 49. Novusilicon Basic Information, Manufacturing Base and Competitors

Table 50. Novusilicon Major Business

Table 51. Novusilicon CVD Silicon Anode Material Product and Services

Table 52. Novusilicon CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Novusilicon Recent Developments/Updates

Table 54. Sichuan Jili New Energy Technology Basic Information, Manufacturing Base and Competitors

Table 55. Sichuan Jili New Energy Technology Major Business

Table 56. Sichuan Jili New Energy Technology CVD Silicon Anode Material Product and Services

Table 57. Sichuan Jili New Energy Technology CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Sichuan Jili New Energy Technology Recent Developments/Updates

Table 59. SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY Basic Information, Manufacturing Base and Competitors

Table 60. SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY Major Business

Table 61. SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY CVD Silicon Anode Material Product and Services

Table 62. SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY CVD Silicon Anode Material Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 63. SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY Recent Developments/Updates

Table 64. Global CVD Silicon Anode Material Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 65. Global CVD Silicon Anode Material Revenue by Manufacturer (2021-2026) & (USD Million)

Table 66. Global CVD Silicon Anode Material Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 67. Market Position of Manufacturers in CVD Silicon Anode Material, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 68. Head Office and CVD Silicon Anode Material Production Site of Key Manufacturer

Table 69. CVD Silicon Anode Material Market: Company Product Type Footprint

Table 70. CVD Silicon Anode Material Market: Company Product Application Footprint

Table 71. CVD Silicon Anode Material New Market Entrants and Barriers to Market Entry

Table 72. CVD Silicon Anode Material Mergers, Acquisition, Agreements, and Collaborations

Table 73. Global CVD Silicon Anode Material Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 74. Global CVD Silicon Anode Material Sales Quantity by Region (2021-2026) & (Tons)

Table 75. Global CVD Silicon Anode Material Sales Quantity by Region (2027-2032) & (Tons)

Table 76. Global CVD Silicon Anode Material Consumption Value by Region (2021-2026) & (USD Million)

Table 77. Global CVD Silicon Anode Material Consumption Value by Region (2027-2032) & (USD Million)

Table 78. Global CVD Silicon Anode Material Average Price by Region (2021-2026) & (US\$/Ton)

Table 79. Global CVD Silicon Anode Material Average Price by Region (2027-2032) & (US\$/Ton)

Table 80. Global CVD Silicon Anode Material Sales Quantity by Type (2021-2026) & (Tons)

Table 81. Global CVD Silicon Anode Material Sales Quantity by Type (2027-2032) & (Tons)

Table 82. Global CVD Silicon Anode Material Consumption Value by Type (2021-2026) & (USD Million)

Table 83. Global CVD Silicon Anode Material Consumption Value by Type (2027-2032) & (USD Million)

Table 84. Global CVD Silicon Anode Material Average Price by Type (2021-2026) & (US\$/Ton)

Table 85. Global CVD Silicon Anode Material Average Price by Type (2027-2032) & (US\$/Ton)

Table 86. Global CVD Silicon Anode Material Sales Quantity by Application (2021-2026) & (Tons)

Table 87. Global CVD Silicon Anode Material Sales Quantity by Application (2027-2032) & (Tons)

Table 88. Global CVD Silicon Anode Material Consumption Value by Application (2021-2026) & (USD Million)

Table 89. Global CVD Silicon Anode Material Consumption Value by Application

(2027-2032) & (USD Million)

Table 90. Global CVD Silicon Anode Material Average Price by Application (2021-2026) & (US\$/Ton)

Table 91. Global CVD Silicon Anode Material Average Price by Application (2027-2032) & (US\$/Ton)

Table 92. North America CVD Silicon Anode Material Sales Quantity by Type (2021-2026) & (Tons)

Table 93. North America CVD Silicon Anode Material Sales Quantity by Type (2027-2032) & (Tons)

Table 94. North America CVD Silicon Anode Material Sales Quantity by Application (2021-2026) & (Tons)

Table 95. North America CVD Silicon Anode Material Sales Quantity by Application (2027-2032) & (Tons)

Table 96. North America CVD Silicon Anode Material Sales Quantity by Country (2021-2026) & (Tons)

Table 97. North America CVD Silicon Anode Material Sales Quantity by Country (2027-2032) & (Tons)

Table 98. North America CVD Silicon Anode Material Consumption Value by Country (2021-2026) & (USD Million)

Table 99. North America CVD Silicon Anode Material Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Europe CVD Silicon Anode Material Sales Quantity by Type (2021-2026) & (Tons)

Table 101. Europe CVD Silicon Anode Material Sales Quantity by Type (2027-2032) & (Tons)

Table 102. Europe CVD Silicon Anode Material Sales Quantity by Application (2021-2026) & (Tons)

Table 103. Europe CVD Silicon Anode Material Sales Quantity by Application (2027-2032) & (Tons)

Table 104. Europe CVD Silicon Anode Material Sales Quantity by Country (2021-2026) & (Tons)

Table 105. Europe CVD Silicon Anode Material Sales Quantity by Country (2027-2032) & (Tons)

Table 106. Europe CVD Silicon Anode Material Consumption Value by Country (2021-2026) & (USD Million)

Table 107. Europe CVD Silicon Anode Material Consumption Value by Country (2027-2032) & (USD Million)

Table 108. Asia-Pacific CVD Silicon Anode Material Sales Quantity by Type (2021-2026) & (Tons)

Table 109. Asia-Pacific CVD Silicon Anode Material Sales Quantity by Type
(2027-2032) & (Tons)

Table 110. Asia-Pacific CVD Silicon Anode Material Sales Quantity by Application
(2021-2026) & (Tons)

Table 111. Asia-Pacific CVD Silicon Anode Material Sales Quantity by Application
(2027-2032) & (Tons)

Table 112. Asia-Pacific CVD Silicon Anode Material Sales Quantity by Region
(2021-2026) & (Tons)

Table 113. Asia-Pacific CVD Silicon Anode Material Sales Quantity by Region
(2027-2032) & (Tons)

Table 114. Asia-Pacific CVD Silicon Anode Material Consumption Value by Region
(2021-2026) & (USD Million)

Table 115. Asia-Pacific CVD Silicon Anode Material Consumption Value by Region
(2027-2032) & (USD Million)

Table 116. South America CVD Silicon Anode Material Sales Quantity by Type
(2021-2026) & (Tons)

Table 117. South America CVD Silicon Anode Material Sales Quantity by Type
(2027-2032) & (Tons)

Table 118. South America CVD Silicon Anode Material Sales Quantity by Application
(2021-2026) & (Tons)

Table 119. South America CVD Silicon Anode Material Sales Quantity by Application
(2027-2032) & (Tons)

Table 120. South America CVD Silicon Anode Material Sales Quantity by Country
(2021-2026) & (Tons)

Table 121. South America CVD Silicon Anode Material Sales Quantity by Country
(2027-2032) & (Tons)

Table 122. South America CVD Silicon Anode Material Consumption Value by Country
(2021-2026) & (USD Million)

Table 123. South America CVD Silicon Anode Material Consumption Value by Country
(2027-2032) & (USD Million)

Table 124. Middle East & Africa CVD Silicon Anode Material Sales Quantity by Type
(2021-2026) & (Tons)

Table 125. Middle East & Africa CVD Silicon Anode Material Sales Quantity by Type
(2027-2032) & (Tons)

Table 126. Middle East & Africa CVD Silicon Anode Material Sales Quantity by
Application (2021-2026) & (Tons)

Table 127. Middle East & Africa CVD Silicon Anode Material Sales Quantity by
Application (2027-2032) & (Tons)

Table 128. Middle East & Africa CVD Silicon Anode Material Sales Quantity by Country

(2021-2026) & (Tons)

Table 129. Middle East & Africa CVD Silicon Anode Material Sales Quantity by Country
(2027-2032) & (Tons)

Table 130. Middle East & Africa CVD Silicon Anode Material Consumption Value by
Country (2021-2026) & (USD Million)

Table 131. Middle East & Africa CVD Silicon Anode Material Consumption Value by
Country (2027-2032) & (USD Million)

Table 132. CVD Silicon Anode Material Raw Material

Table 133. Key Manufacturers of CVD Silicon Anode Material Raw Materials

Table 134. CVD Silicon Anode Material Typical Distributors

Table 135. CVD Silicon Anode Material Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. CVD Silicon Anode Material Picture
- Figure 2. Global CVD Silicon Anode Material Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global CVD Silicon Anode Material Revenue Market Share by Type in 2025
- Figure 4. Biomass Carbon Materials Examples
- Figure 5. Polymer Resin Materials Examples
- Figure 6. Others Examples
- Figure 7. Global CVD Silicon Anode Material Revenue by Equipment, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global CVD Silicon Anode Material Revenue Market Share by Equipment in 2025
- Figure 9. Deposition Equipment: Rotary Kiln Examples
- Figure 10. Deposition Equipment: Fluidized Bed Examples
- Figure 11. Global CVD Silicon Anode Material Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global CVD Silicon Anode Material Revenue Market Share by Application in 2025
- Figure 13. Power Batteries Examples
- Figure 14. Consumer Batteries Examples
- Figure 15. Others Examples
- Figure 16. Global CVD Silicon Anode Material Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 17. Global CVD Silicon Anode Material Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 18. Global CVD Silicon Anode Material Sales Quantity (2021-2032) & (Tons)
- Figure 19. Global CVD Silicon Anode Material Price (2021-2032) & (US\$/Ton)
- Figure 20. Global CVD Silicon Anode Material Sales Quantity Market Share by Manufacturer in 2025
- Figure 21. Global CVD Silicon Anode Material Revenue Market Share by Manufacturer in 2025
- Figure 22. Producer Shipments of CVD Silicon Anode Material by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 23. Top 3 CVD Silicon Anode Material Manufacturer (Revenue) Market Share in 2025
- Figure 24. Top 6 CVD Silicon Anode Material Manufacturer (Revenue) Market Share in

2025

Figure 25. Global CVD Silicon Anode Material Sales Quantity Market Share by Region (2021-2032)

Figure 26. Global CVD Silicon Anode Material Consumption Value Market Share by Region (2021-2032)

Figure 27. North America CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 28. Europe CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 29. Asia-Pacific CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 30. South America CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 31. Middle East & Africa CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 32. Global CVD Silicon Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 33. Global CVD Silicon Anode Material Consumption Value Market Share by Type (2021-2032)

Figure 34. Global CVD Silicon Anode Material Average Price by Type (2021-2032) & (US\$/Ton)

Figure 35. Global CVD Silicon Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 36. Global CVD Silicon Anode Material Revenue Market Share by Application (2021-2032)

Figure 37. Global CVD Silicon Anode Material Average Price by Application (2021-2032) & (US\$/Ton)

Figure 38. North America CVD Silicon Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 39. North America CVD Silicon Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 40. North America CVD Silicon Anode Material Sales Quantity Market Share by Country (2021-2032)

Figure 41. North America CVD Silicon Anode Material Consumption Value Market Share by Country (2021-2032)

Figure 42. United States CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 43. Canada CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 44. Mexico CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 45. Europe CVD Silicon Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 46. Europe CVD Silicon Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 47. Europe CVD Silicon Anode Material Sales Quantity Market Share by Country (2021-2032)

Figure 48. Europe CVD Silicon Anode Material Consumption Value Market Share by Country (2021-2032)

Figure 49. Germany CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 50. France CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 51. United Kingdom CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 52. Russia CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 53. Italy CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 54. Asia-Pacific CVD Silicon Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 55. Asia-Pacific CVD Silicon Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 56. Asia-Pacific CVD Silicon Anode Material Sales Quantity Market Share by Region (2021-2032)

Figure 57. Asia-Pacific CVD Silicon Anode Material Consumption Value Market Share by Region (2021-2032)

Figure 58. China CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 59. Japan CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 60. South Korea CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 61. India CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 62. Southeast Asia CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 63. Australia CVD Silicon Anode Material Consumption Value (2021-2032) &

(USD Million)

Figure 64. South America CVD Silicon Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 65. South America CVD Silicon Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 66. South America CVD Silicon Anode Material Sales Quantity Market Share by Country (2021-2032)

Figure 67. South America CVD Silicon Anode Material Consumption Value Market Share by Country (2021-2032)

Figure 68. Brazil CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 69. Argentina CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 70. Middle East & Africa CVD Silicon Anode Material Sales Quantity Market Share by Type (2021-2032)

Figure 71. Middle East & Africa CVD Silicon Anode Material Sales Quantity Market Share by Application (2021-2032)

Figure 72. Middle East & Africa CVD Silicon Anode Material Sales Quantity Market Share by Country (2021-2032)

Figure 73. Middle East & Africa CVD Silicon Anode Material Consumption Value Market Share by Country (2021-2032)

Figure 74. Turkey CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 75. Egypt CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 76. Saudi Arabia CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 77. South Africa CVD Silicon Anode Material Consumption Value (2021-2032) & (USD Million)

Figure 78. CVD Silicon Anode Material Market Drivers

Figure 79. CVD Silicon Anode Material Market Restraints

Figure 80. CVD Silicon Anode Material Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Manufacturing Cost Structure Analysis of CVD Silicon Anode Material in 2025

Figure 83. Manufacturing Process Analysis of CVD Silicon Anode Material

Figure 84. CVD Silicon Anode Material Industrial Chain

Figure 85. Sales Channel: Direct to End-User vs Distributors

Figure 86. Direct Channel Pros & Cons

Figure 87. Indirect Channel Pros & Cons

Figure 88. Methodology

Figure 89. Research Process and Data Source

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