

Global High-silicon Carbon Anode Market Growth 2026-2032

<https://marketpublishers.com/r/GD6039F732FFEN.html>

Date: July 2026

Pages: 116

Price: US\$ 3,660.00 (Single User License)

ID: GD6039F732FFEN

Abstracts

The global High-silicon Carbon Anode market size is predicted to grow from US\$ 240 million in 2025 to US\$ 689 million in 2032; it is expected to grow at a CAGR of 16.6% from 2026 to 2032.

High-silicon Carbon Anode is an advanced lithium-ion battery anode material that incorporates a high proportion of silicon into a carbon matrix to enhance energy density while maintaining structural stability and long cycle life. Its advantages include high specific capacity, improved charge-discharge efficiency, and extended battery lifespan. The capacity utilization rate in 2025 reached 80%, and the industry's average gross margin was approximately 30%. Production in 2025 totaled 12,564 tons at an average price of 19,500 USD per ton. The upstream segment mainly consists of key raw materials such as silicon alloys, silane, graphite, and porous carbon, with representative suppliers including Elkem, Hemlock, and East Hope Group. The midstream focuses on material blending, coating, and particle size control to ensure uniformity and electrochemical performance. Downstream applications are primarily in power batteries and consumer batteries, with key customers including CATL, BYD, and LG Energy Solution.

The outlook for High-silicon Carbon Anode is tied to the combined push for higher energy density and faster charging. Its early applications are more likely to concentrate in premium EVs, eVTOL platforms, drones, flagship consumer electronics, and high-rate power batteries. Compared with low-silicon blended anodes, a high-silicon system can deliver stronger capacity gains and better weight reduction, but it also increases volume expansion, cycle-life decay, first-cycle loss, and manufacturing consistency challenges. Commercial adoption will therefore depend less on silicon content alone and more on coordinated cell-level engineering, including prelithiation, carbon coating, binder design,

and electrolyte optimization.

LP Information, Inc. (LPI) ' newest research report, the "High-silicon Carbon Anode Industry Forecast" looks at past sales and reviews total world High-silicon Carbon Anode sales in 2025, providing a comprehensive analysis by region and market sector of projected High-silicon Carbon Anode sales for 2026 through 2032. With High-silicon Carbon Anode sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-silicon Carbon Anode industry.

This Insight Report provides a comprehensive analysis of the global High-silicon Carbon Anode landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-silicon Carbon Anode portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-silicon Carbon Anode market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-silicon Carbon Anode and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-silicon Carbon Anode.

This report presents a comprehensive overview, market shares, and growth opportunities of High-silicon Carbon Anode market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Nano Silicon

Micro Silicon

Segmentation by Method:

Mechanical Ball Milling

Chemical Vapor Deposition(CVD)

Others

Segmentation by Specific Capacity:

Specific Capacity ? 1,000 mAh/g

Specific Capacity ? 1,000 mAh/g

Segmentation by Application:

Power Battery

Consumer Battery

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Group14 Technologies (USA)

Sila Nanotechnologies (USA)

Amprius (USA)

Zhide Battery (China)

Nexeon (UK)

Ningbo Shanshan (China)

Putailai (China)

BTR New Material Group (China)

SG Nano (China)

Tianmulake Excellent Anode Materials Co (China)

Shin Etsu Chemical (Japan)

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-silicon Carbon Anode market?

What factors are driving High-silicon Carbon Anode market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-silicon Carbon Anode market opportunities vary by end market size?

How does High-silicon Carbon Anode break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global High-silicon Carbon Anode Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for High-silicon Carbon Anode by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for High-silicon Carbon Anode by Country/Region, 2021, 2025 & 2032
- 2.2 High-silicon Carbon Anode Segment by Type
 - 2.2.1 Nano Silicon
 - 2.2.2 Micro Silicon
 - 2.2.3 High-silicon Carbon Anode Sales by Type
 - 2.2.3.1 Global High-silicon Carbon Anode Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global High-silicon Carbon Anode Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global High-silicon Carbon Anode Sale Price by Type (2021-2026)
- 2.3 High-silicon Carbon Anode Segment by Method
 - 2.3.1 Mechanical Ball Milling
 - 2.3.2 Chemical Vapor Deposition(CVD)
 - 2.3.3 Others
 - 2.3.4 High-silicon Carbon Anode Sales by Method
 - 2.3.4.1 Global High-silicon Carbon Anode Sales Market Share by Method (2021-2026)
 - 2.3.4.2 Global High-silicon Carbon Anode Revenue and Market Share by Method (2021-2026)
 - 2.3.4.3 Global High-silicon Carbon Anode Sale Price by Method (2021-2026)

2.4 High-silicon Carbon Anode Segment by Specific Capacity

2.4.1 Specific Capacity ? 1,000 mAh/g

2.4.2 Specific Capacity ? 1,000 mAh/g

2.4.3 High-silicon Carbon Anode Sales by Specific Capacity

2.4.3.1 Global High-silicon Carbon Anode Sales Market Share by Specific Capacity (2021-2026)

2.4.3.2 Global High-silicon Carbon Anode Revenue and Market Share by Specific Capacity (2021-2026)

2.4.3.3 Global High-silicon Carbon Anode Sale Price by Specific Capacity (2021-2026)

2.5 High-silicon Carbon Anode Segment by Application

2.5.1 Power Battery

2.5.2 Consumer Battery

2.5.3 Others

2.5.4 High-silicon Carbon Anode Sales by Application

2.5.4.1 Global High-silicon Carbon Anode Sale Market Share by Application (2021-2026)

2.5.4.2 Global High-silicon Carbon Anode Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global High-silicon Carbon Anode Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global High-silicon Carbon Anode Breakdown Data by Company

3.1.1 Global High-silicon Carbon Anode Annual Sales by Company (2021-2026)

3.1.2 Global High-silicon Carbon Anode Sales Market Share by Company (2021-2026)

3.2 Global High-silicon Carbon Anode Annual Revenue by Company (2021-2026)

3.2.1 Global High-silicon Carbon Anode Revenue by Company (2021-2026)

3.2.2 Global High-silicon Carbon Anode Revenue Market Share by Company (2021-2026)

3.3 Global High-silicon Carbon Anode Sale Price by Company

3.4 Key Manufacturers High-silicon Carbon Anode Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers High-silicon Carbon Anode Product Location Distribution

3.4.2 Players High-silicon Carbon Anode Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HIGH-SILICON CARBON ANODE BY GEOGRAPHIC REGION

4.1 World Historic High-silicon Carbon Anode Market Size by Geographic Region (2021-2026)

4.1.1 Global High-silicon Carbon Anode Annual Sales by Geographic Region (2021-2026)

4.1.2 Global High-silicon Carbon Anode Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic High-silicon Carbon Anode Market Size by Country/Region (2021-2026)

4.2.1 Global High-silicon Carbon Anode Annual Sales by Country/Region (2021-2026)

4.2.2 Global High-silicon Carbon Anode Annual Revenue by Country/Region (2021-2026)

4.3 Americas High-silicon Carbon Anode Sales Growth

4.4 APAC High-silicon Carbon Anode Sales Growth

4.5 Europe High-silicon Carbon Anode Sales Growth

4.6 Middle East & Africa High-silicon Carbon Anode Sales Growth

5 AMERICAS

5.1 Americas High-silicon Carbon Anode Sales by Country

5.1.1 Americas High-silicon Carbon Anode Sales by Country (2021-2026)

5.1.2 Americas High-silicon Carbon Anode Revenue by Country (2021-2026)

5.2 Americas High-silicon Carbon Anode Sales by Type (2021-2026)

5.3 Americas High-silicon Carbon Anode Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC High-silicon Carbon Anode Sales by Region

6.1.1 APAC High-silicon Carbon Anode Sales by Region (2021-2026)

6.1.2 APAC High-silicon Carbon Anode Revenue by Region (2021-2026)

6.2 APAC High-silicon Carbon Anode Sales by Type (2021-2026)

6.3 APAC High-silicon Carbon Anode Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe High-silicon Carbon Anode by Country

7.1.1 Europe High-silicon Carbon Anode Sales by Country (2021-2026)

7.1.2 Europe High-silicon Carbon Anode Revenue by Country (2021-2026)

7.2 Europe High-silicon Carbon Anode Sales by Type (2021-2026)

7.3 Europe High-silicon Carbon Anode Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa High-silicon Carbon Anode by Country

8.1.1 Middle East & Africa High-silicon Carbon Anode Sales by Country (2021-2026)

8.1.2 Middle East & Africa High-silicon Carbon Anode Revenue by Country (2021-2026)

8.2 Middle East & Africa High-silicon Carbon Anode Sales by Type (2021-2026)

8.3 Middle East & Africa High-silicon Carbon Anode Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of High-silicon Carbon Anode

10.3 Manufacturing Process Analysis of High-silicon Carbon Anode

10.4 Industry Chain Structure of High-silicon Carbon Anode

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 High-silicon Carbon Anode Distributors

11.3 High-silicon Carbon Anode Customer

12 WORLD FORECAST REVIEW FOR HIGH-SILICON CARBON ANODE BY GEOGRAPHIC REGION

12.1 Global High-silicon Carbon Anode Market Size Forecast by Region

12.1.1 Global High-silicon Carbon Anode Forecast by Region (2027-2032)

12.1.2 Global High-silicon Carbon Anode Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global High-silicon Carbon Anode Forecast by Type (2027-2032)

12.7 Global High-silicon Carbon Anode Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Group14 Technologies (USA)

13.1.1 Group14 Technologies (USA) Company Information

13.1.2 Group14 Technologies (USA) High-silicon Carbon Anode Product Portfolios and Specifications

13.1.3 Group14 Technologies (USA) High-silicon Carbon Anode Sales, Revenue,

Price and Gross Margin (2021-2026)

13.1.4 Group14 Technologies (USA) Main Business Overview

13.1.5 Group14 Technologies (USA) Latest Developments

13.2 Sila Nanotechnologies (USA)

13.2.1 Sila Nanotechnologies (USA) Company Information

13.2.2 Sila Nanotechnologies (USA) High-silicon Carbon Anode Product Portfolios and Specifications

13.2.3 Sila Nanotechnologies (USA) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Sila Nanotechnologies (USA) Main Business Overview

13.2.5 Sila Nanotechnologies (USA) Latest Developments

13.3 Amprius (USA)

13.3.1 Amprius (USA) Company Information

13.3.2 Amprius (USA) High-silicon Carbon Anode Product Portfolios and Specifications

13.3.3 Amprius (USA) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Amprius (USA) Main Business Overview

13.3.5 Amprius (USA) Latest Developments

13.4 Zhide Battery (China)

13.4.1 Zhide Battery (China) Company Information

13.4.2 Zhide Battery (China) High-silicon Carbon Anode Product Portfolios and Specifications

13.4.3 Zhide Battery (China) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Zhide Battery (China) Main Business Overview

13.4.5 Zhide Battery (China) Latest Developments

13.5 Nexeon (UK)

13.5.1 Nexeon (UK) Company Information

13.5.2 Nexeon (UK) High-silicon Carbon Anode Product Portfolios and Specifications

13.5.3 Nexeon (UK) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Nexeon (UK) Main Business Overview

13.5.5 Nexeon (UK) Latest Developments

13.6 Ningbo Shanshan (China)

13.6.1 Ningbo Shanshan (China) Company Information

13.6.2 Ningbo Shanshan (China) High-silicon Carbon Anode Product Portfolios and Specifications

13.6.3 Ningbo Shanshan (China) High-silicon Carbon Anode Sales, Revenue, Price

and Gross Margin (2021-2026)

13.6.4 Ningbo Shanshan (China) Main Business Overview

13.6.5 Ningbo Shanshan (China) Latest Developments

13.7 Putailai (China)

13.7.1 Putailai (China) Company Information

13.7.2 Putailai (China) High-silicon Carbon Anode Product Portfolios and Specifications

13.7.3 Putailai (China) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Putailai (China) Main Business Overview

13.7.5 Putailai (China) Latest Developments

13.8 BTR New Material Group (China)

13.8.1 BTR New Material Group (China) Company Information

13.8.2 BTR New Material Group (China) High-silicon Carbon Anode Product Portfolios and Specifications

13.8.3 BTR New Material Group (China) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 BTR New Material Group (China) Main Business Overview

13.8.5 BTR New Material Group (China) Latest Developments

13.9 SG Nano (China)

13.9.1 SG Nano (China) Company Information

13.9.2 SG Nano (China) High-silicon Carbon Anode Product Portfolios and Specifications

13.9.3 SG Nano (China) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 SG Nano (China) Main Business Overview

13.9.5 SG Nano (China) Latest Developments

13.10 Tianmulake Excellent Anode Materials Co (China)

13.10.1 Tianmulake Excellent Anode Materials Co (China) Company Information

13.10.2 Tianmulake Excellent Anode Materials Co (China) High-silicon Carbon Anode Product Portfolios and Specifications

13.10.3 Tianmulake Excellent Anode Materials Co (China) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Tianmulake Excellent Anode Materials Co (China) Main Business Overview

13.10.5 Tianmulake Excellent Anode Materials Co (China) Latest Developments

13.11 Shin Etsu Chemical (Japan)

13.11.1 Shin Etsu Chemical (Japan) Company Information

13.11.2 Shin Etsu Chemical (Japan) High-silicon Carbon Anode Product Portfolios and Specifications

13.11.3 Shin Etsu Chemical (Japan) High-silicon Carbon Anode Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shin Etsu Chemical (Japan) Main Business Overview

13.11.5 Shin Etsu Chemical (Japan) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. High-silicon Carbon Anode Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. High-silicon Carbon Anode Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Nano Silicon

Table 4. Major Players of Micro Silicon

Table 5. Global High-silicon Carbon Anode Sales by Type (2021-2026) & (Tonnes)

Table 6. Global High-silicon Carbon Anode Sales Market Share by Type (2021-2026)

Table 7. Global High-silicon Carbon Anode Revenue by Type (2021-2026) & (\$ million)

Table 8. Global High-silicon Carbon Anode Revenue Market Share by Type (2021-2026)

Table 9. Global High-silicon Carbon Anode Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Major Players of Mechanical Ball Milling

Table 11. Major Players of Chemical Vapor Deposition(CVD)

Table 12. Major Players of Others

Table 13. Global High-silicon Carbon Anode Sales by Method (2021-2026) & (Tonnes)

Table 14. Global High-silicon Carbon Anode Sales Market Share by Method (2021-2026)

Table 15. Global High-silicon Carbon Anode Revenue by Method (2021-2026) & (\$ million)

Table 16. Global High-silicon Carbon Anode Revenue Market Share by Method (2021-2026)

Table 17. Global High-silicon Carbon Anode Sale Price by Method (2021-2026) & (US\$/Ton)

Table 18. Major Players of Specific Capacity ? 1,000 mAh/g

Table 19. Major Players of Specific Capacity ? 1,000 mAh/g

Table 20. Global High-silicon Carbon Anode Sales by Specific Capacity (2021-2026) & (Tonnes)

Table 21. Global High-silicon Carbon Anode Sales Market Share by Specific Capacity (2021-2026)

Table 22. Global High-silicon Carbon Anode Revenue by Specific Capacity (2021-2026) & (\$ million)

Table 23. Global High-silicon Carbon Anode Revenue Market Share by Specific Capacity (2021-2026)

Table 24. Global High-silicon Carbon Anode Sale Price by Specific Capacity (2021-2026) & (US\$/Ton)
Table 25. Global High-silicon Carbon Anode Sale by Application (2021-2026) & (Tonnes)
Table 26. Global High-silicon Carbon Anode Sale Market Share by Application (2021-2026)
Table 27. Global High-silicon Carbon Anode Revenue by Application (2021-2026) & (\$ million)
Table 28. Global High-silicon Carbon Anode Revenue Market Share by Application (2021-2026)
Table 29. Global High-silicon Carbon Anode Sale Price by Application (2021-2026) & (US\$/Ton)
Table 30. Global High-silicon Carbon Anode Sales by Company (2021-2026) & (Tonnes)
Table 31. Global High-silicon Carbon Anode Sales Market Share by Company (2021-2026)
Table 32. Global High-silicon Carbon Anode Revenue by Company (2021-2026) & (\$ millions)
Table 33. Global High-silicon Carbon Anode Revenue Market Share by Company (2021-2026)
Table 34. Global High-silicon Carbon Anode Sale Price by Company (2021-2026) & (US\$/Ton)
Table 35. Key Manufacturers High-silicon Carbon Anode Producing Area Distribution and Sales Area
Table 36. Players High-silicon Carbon Anode Products Offered
Table 37. High-silicon Carbon Anode Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global High-silicon Carbon Anode Sales by Geographic Region (2021-2026) & (Tonnes)
Table 41. Global High-silicon Carbon Anode Sales Market Share Geographic Region (2021-2026)
Table 42. Global High-silicon Carbon Anode Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 43. Global High-silicon Carbon Anode Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global High-silicon Carbon Anode Sales by Country/Region (2021-2026) & (Tonnes)

Table 45. Global High-silicon Carbon Anode Sales Market Share by Country/Region (2021-2026)

Table 46. Global High-silicon Carbon Anode Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global High-silicon Carbon Anode Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas High-silicon Carbon Anode Sales by Country (2021-2026) & (Tonnes)

Table 49. Americas High-silicon Carbon Anode Sales Market Share by Country (2021-2026)

Table 50. Americas High-silicon Carbon Anode Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas High-silicon Carbon Anode Sales by Type (2021-2026) & (Tonnes)

Table 52. Americas High-silicon Carbon Anode Sales by Application (2021-2026) & (Tonnes)

Table 53. APAC High-silicon Carbon Anode Sales by Region (2021-2026) & (Tonnes)

Table 54. APAC High-silicon Carbon Anode Sales Market Share by Region (2021-2026)

Table 55. APAC High-silicon Carbon Anode Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC High-silicon Carbon Anode Sales by Type (2021-2026) & (Tonnes)

Table 57. APAC High-silicon Carbon Anode Sales by Application (2021-2026) & (Tonnes)

Table 58. Europe High-silicon Carbon Anode Sales by Country (2021-2026) & (Tonnes)

Table 59. Europe High-silicon Carbon Anode Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe High-silicon Carbon Anode Sales by Type (2021-2026) & (Tonnes)

Table 61. Europe High-silicon Carbon Anode Sales by Application (2021-2026) & (Tonnes)

Table 62. Middle East & Africa High-silicon Carbon Anode Sales by Country (2021-2026) & (Tonnes)

Table 63. Middle East & Africa High-silicon Carbon Anode Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa High-silicon Carbon Anode Sales by Type (2021-2026) & (Tonnes)

Table 65. Middle East & Africa High-silicon Carbon Anode Sales by Application (2021-2026) & (Tonnes)

Table 66. Key Market Drivers & Growth Opportunities of High-silicon Carbon Anode

Table 67. Key Market Challenges & Risks of High-silicon Carbon Anode

Table 68. Key Industry Trends of High-silicon Carbon Anode

Table 69. High-silicon Carbon Anode Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. High-silicon Carbon Anode Distributors List
Table 72. High-silicon Carbon Anode Customer List
Table 73. Global High-silicon Carbon Anode Sales Forecast by Region (2027-2032) & (Tonnes)
Table 74. Global High-silicon Carbon Anode Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 75. Americas High-silicon Carbon Anode Sales Forecast by Country (2027-2032) & (Tonnes)
Table 76. Americas High-silicon Carbon Anode Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. APAC High-silicon Carbon Anode Sales Forecast by Region (2027-2032) & (Tonnes)
Table 78. APAC High-silicon Carbon Anode Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Europe High-silicon Carbon Anode Sales Forecast by Country (2027-2032) & (Tonnes)
Table 80. Europe High-silicon Carbon Anode Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. Middle East & Africa High-silicon Carbon Anode Sales Forecast by Country (2027-2032) & (Tonnes)
Table 82. Middle East & Africa High-silicon Carbon Anode Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Global High-silicon Carbon Anode Sales Forecast by Type (2027-2032) & (Tonnes)
Table 84. Global High-silicon Carbon Anode Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 85. Global High-silicon Carbon Anode Sales Forecast by Application (2027-2032) & (Tonnes)
Table 86. Global High-silicon Carbon Anode Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 87. Group14 Technologies (USA) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors
Table 88. Group14 Technologies (USA) High-silicon Carbon Anode Product Portfolios and Specifications
Table 89. Group14 Technologies (USA) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 90. Group14 Technologies (USA) Main Business

Table 91. Group14 Technologies (USA) Latest Developments

Table 92. Sila Nanotechnologies (USA) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors

Table 93. Sila Nanotechnologies (USA) High-silicon Carbon Anode Product Portfolios and Specifications

Table 94. Sila Nanotechnologies (USA) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 95. Sila Nanotechnologies (USA) Main Business

Table 96. Sila Nanotechnologies (USA) Latest Developments

Table 97. Amprius (USA) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors

Table 98. Amprius (USA) High-silicon Carbon Anode Product Portfolios and Specifications

Table 99. Amprius (USA) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 100. Amprius (USA) Main Business

Table 101. Amprius (USA) Latest Developments

Table 102. Zhide Battery (China) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors

Table 103. Zhide Battery (China) High-silicon Carbon Anode Product Portfolios and Specifications

Table 104. Zhide Battery (China) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 105. Zhide Battery (China) Main Business

Table 106. Zhide Battery (China) Latest Developments

Table 107. Nexeon (UK) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors

Table 108. Nexeon (UK) High-silicon Carbon Anode Product Portfolios and Specifications

Table 109. Nexeon (UK) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 110. Nexeon (UK) Main Business

Table 111. Nexeon (UK) Latest Developments

Table 112. Ningbo Shanshan (China) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors

Table 113. Ningbo Shanshan (China) High-silicon Carbon Anode Product Portfolios and Specifications

Table 114. Ningbo Shanshan (China) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 115. Ningbo Shanshan (China) Main Business
Table 116. Ningbo Shanshan (China) Latest Developments
Table 117. Putailai (China) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors
Table 118. Putailai (China) High-silicon Carbon Anode Product Portfolios and Specifications
Table 119. Putailai (China) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 120. Putailai (China) Main Business
Table 121. Putailai (China) Latest Developments
Table 122. BTR New Material Group (China) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors
Table 123. BTR New Material Group (China) High-silicon Carbon Anode Product Portfolios and Specifications
Table 124. BTR New Material Group (China) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 125. BTR New Material Group (China) Main Business
Table 126. BTR New Material Group (China) Latest Developments
Table 127. SG Nano (China) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors
Table 128. SG Nano (China) High-silicon Carbon Anode Product Portfolios and Specifications
Table 129. SG Nano (China) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 130. SG Nano (China) Main Business
Table 131. SG Nano (China) Latest Developments
Table 132. Tianmulake Excellent Anode Materials Co (China) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors
Table 133. Tianmulake Excellent Anode Materials Co (China) High-silicon Carbon Anode Product Portfolios and Specifications
Table 134. Tianmulake Excellent Anode Materials Co (China) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
Table 135. Tianmulake Excellent Anode Materials Co (China) Main Business
Table 136. Tianmulake Excellent Anode Materials Co (China) Latest Developments
Table 137. Shin Etsu Chemical (Japan) Basic Information, High-silicon Carbon Anode Manufacturing Base, Sales Area and Its Competitors
Table 138. Shin Etsu Chemical (Japan) High-silicon Carbon Anode Product Portfolios and Specifications

Table 139. Shin Etsu Chemical (Japan) High-silicon Carbon Anode Sales (Tonnes), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 140. Shin Etsu Chemical (Japan) Main Business

Table 141. Shin Etsu Chemical (Japan) Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of High-silicon Carbon Anode
- Figure 2. High-silicon Carbon Anode Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global High-silicon Carbon Anode Sales Growth Rate 2021-2032 (Tonnes)
- Figure 7. Global High-silicon Carbon Anode Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. High-silicon Carbon Anode Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. High-silicon Carbon Anode Sales Market Share by Country/Region (2025)
- Figure 10. High-silicon Carbon Anode Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Nano Silicon
- Figure 12. Product Picture of Micro Silicon
- Figure 13. Global High-silicon Carbon Anode Sales Market Share by Type in 2026
- Figure 14. Global High-silicon Carbon Anode Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Mechanical Ball Milling
- Figure 16. Product Picture of Chemical Vapor Deposition(CVD)
- Figure 17. Product Picture of Others
- Figure 18. Global High-silicon Carbon Anode Sales Market Share by Method in 2026
- Figure 19. Global High-silicon Carbon Anode Revenue Market Share by Method (2021-2026)
- Figure 20. Product Picture of Specific Capacity ? 1,000 mAh/g
- Figure 21. Product Picture of Specific Capacity ? 1,000 mAh/g
- Figure 22. Global High-silicon Carbon Anode Sales Market Share by Specific Capacity in 2026
- Figure 23. Global High-silicon Carbon Anode Revenue Market Share by Specific Capacity (2021-2026)
- Figure 24. High-silicon Carbon Anode Consumed in Power Battery
- Figure 25. Global High-silicon Carbon Anode Market: Power Battery (2021-2026) & (Tonnes)
- Figure 26. High-silicon Carbon Anode Consumed in Consumer Battery
- Figure 27. Global High-silicon Carbon Anode Market: Consumer Battery (2021-2026) &

(Tonnes)

Figure 28. High-silicon Carbon Anode Consumed in Others

Figure 29. Global High-silicon Carbon Anode Market: Others (2021-2026) & (Tonnes)

Figure 30. Global High-silicon Carbon Anode Sale Market Share by Application (2025)

Figure 31. Global High-silicon Carbon Anode Revenue Market Share by Application in 2025

Figure 32. High-silicon Carbon Anode Sales by Company in 2025 (Tonnes)

Figure 33. Global High-silicon Carbon Anode Sales Market Share by Company in 2025

Figure 34. High-silicon Carbon Anode Revenue by Company in 2025 (\$ millions)

Figure 35. Global High-silicon Carbon Anode Revenue Market Share by Company in 2025

Figure 36. Global High-silicon Carbon Anode Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global High-silicon Carbon Anode Revenue Market Share by Geographic Region in 2025

Figure 38. Americas High-silicon Carbon Anode Sales 2021-2026 (Tonnes)

Figure 39. Americas High-silicon Carbon Anode Revenue 2021-2026 (\$ millions)

Figure 40. APAC High-silicon Carbon Anode Sales 2021-2026 (Tonnes)

Figure 41. APAC High-silicon Carbon Anode Revenue 2021-2026 (\$ millions)

Figure 42. Europe High-silicon Carbon Anode Sales 2021-2026 (Tonnes)

Figure 43. Europe High-silicon Carbon Anode Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa High-silicon Carbon Anode Sales 2021-2026 (Tonnes)

Figure 45. Middle East & Africa High-silicon Carbon Anode Revenue 2021-2026 (\$ millions)

Figure 46. Americas High-silicon Carbon Anode Sales Market Share by Country in 2025

Figure 47. Americas High-silicon Carbon Anode Revenue Market Share by Country (2021-2026)

Figure 48. Americas High-silicon Carbon Anode Sales Market Share by Type (2021-2026)

Figure 49. Americas High-silicon Carbon Anode Sales Market Share by Application (2021-2026)

Figure 50. United States High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC High-silicon Carbon Anode Sales Market Share by Region in 2025

Figure 55. APAC High-silicon Carbon Anode Revenue Market Share by Region (2021-2026)

Figure 56. APAC High-silicon Carbon Anode Sales Market Share by Type (2021-2026)

Figure 57. APAC High-silicon Carbon Anode Sales Market Share by Application (2021-2026)

Figure 58. China High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 62. India High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe High-silicon Carbon Anode Sales Market Share by Country in 2025

Figure 66. Europe High-silicon Carbon Anode Revenue Market Share by Country (2021-2026)

Figure 67. Europe High-silicon Carbon Anode Sales Market Share by Type (2021-2026)

Figure 68. Europe High-silicon Carbon Anode Sales Market Share by Application (2021-2026)

Figure 69. Germany High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 70. France High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa High-silicon Carbon Anode Sales Market Share by Country (2021-2026)

Figure 75. Middle East & Africa High-silicon Carbon Anode Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa High-silicon Carbon Anode Sales Market Share by Application (2021-2026)

Figure 77. Egypt High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries High-silicon Carbon Anode Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of High-silicon Carbon Anode in 2026

Figure 83. Manufacturing Process Analysis of High-silicon Carbon Anode

Figure 84. Industry Chain Structure of High-silicon Carbon Anode

Figure 85. Channels of Distribution

Figure 86. Global High-silicon Carbon Anode Sales Market Forecast by Region
(2027-2032)

Figure 87. Global High-silicon Carbon Anode Revenue Market Share Forecast by
Region (2027-2032)

Figure 88. Global High-silicon Carbon Anode Sales Market Share Forecast by Type
(2027-2032)

Figure 89. Global High-silicon Carbon Anode Revenue Market Share Forecast by Type
(2027-2032)

Figure 90. Global High-silicon Carbon Anode Sales Market Share Forecast by
Application (2027-2032)

Figure 91. Global High-silicon Carbon Anode Revenue Market Share Forecast by
Application (2027-2032)

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