

Global Low-Expansion Silicon Carbon Anode Material Market Growth 2026-2032

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Abstracts

The global Low-Expansion Silicon Carbon Anode Material market size is predicted to grow from US\$ 68.48 million in 2025 to US\$ 915 million in 2032; it is expected to grow at a CAGR of 45.6% from 2026 to 2032.

Low-Expansion Silicon Carbon Anode Material is an advanced lithium-ion battery anode material designed to minimize volume expansion of silicon during lithiation by integrating silicon with a structurally reinforced carbon matrix, thereby improving dimensional stability, cycling durability, and safety performance while maintaining high energy density and stable electrochemical behavior. It is widely used in high-end consumer electronics and power battery systems requiring long cycle life and stable structure under repeated charge-discharge stress. In 2025, production totaled 3415 tons and the average price was USD 20,500 per ton. The industry's capacity utilization rate reached 80% and the average gross margin was approximately 30%. Upstream, key raw materials include metallurgical silicon, silane, graphite, and porous carbon, with representative suppliers such as Elkem, Hemlock, and East Hope Group ensuring stable supply and material quality. The midstream segment focuses on silicon-carbon structural design, expansion suppression engineering, coating modification processes, and particle morphology control to optimize mechanical stability and electrochemical kinetics. Downstream applications are mainly used in the fields of automotive power batteries and consumer electronics lithium batteries, with representative clients including CATL, BYD, Samsung Electronics, and LG Energy Solution.

Low-expansion silicon-carbon anode materials are becoming the cornerstone for next-generation high-energy batteries. By effectively suppressing volume expansion, they enable safe high-voltage compaction and long cycle life. This makes them indispensable for ultra-fast charging EVs, eVTOLs, solid-state batteries, and high-end

consumer electronics like foldable smartphones. As manufacturing processes mature and costs decline, these materials are rapidly transitioning from niche high-end applications to scalable mass production, solidifying their pivotal role in the future landscape of energy storage.

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

This Insight Report provides a comprehensive analysis of the global Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low-Expansion Silicon Carbon Anode Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material market?

What factors are driving Low-Expansion Silicon Carbon Anode Material market growth, globally and by region?

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

How do Low-Expansion Silicon Carbon Anode Material market opportunities vary by end market size?

How does Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Low-Expansion Silicon Carbon Anode Material by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Low-Expansion Silicon Carbon Anode Material by Country/Region, 2021, 2025 & 2032

2.2 Low-Expansion Silicon Carbon Anode Material Segment by Type

- 2.2.1 Nano Silicon
- 2.2.2 Micro Silicon
- 2.2.3 Low-Expansion Silicon Carbon Anode Material Sales by Type
 - 2.2.3.1 Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Low-Expansion Silicon Carbon Anode Material Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Low-Expansion Silicon Carbon Anode Material Sale Price by Type (2021-2026)

2.3 Low-Expansion Silicon Carbon Anode Material Segment by Method

- 2.3.1 Mechanical Ball Milling
- 2.3.2 Chemical Vapor Deposition(CVD)
- 2.3.3 Others
- 2.3.4 Low-Expansion Silicon Carbon Anode Material Sales by Method
 - 2.3.4.1 Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Method (2021-2026)
 - 2.3.4.2 Global Low-Expansion Silicon Carbon Anode Material Revenue and Market

Share by Method (2021-2026)

2.3.4.3 Global Low-Expansion Silicon Carbon Anode Material Sale Price by Method (2021-2026)

2.4 Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales by Specific Capacity

2.4.3.1 Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Specific Capacity (2021-2026)

2.4.3.2 Global Low-Expansion Silicon Carbon Anode Material Revenue and Market Share by Specific Capacity (2021-2026)

2.4.3.3 Global Low-Expansion Silicon Carbon Anode Material Sale Price by Specific Capacity (2021-2026)

2.5 Low-Expansion Silicon Carbon Anode Material Segment by Application

2.5.1 Power Battery

2.5.2 Consumer Battery

2.5.3 Others

2.5.4 Low-Expansion Silicon Carbon Anode Material Sales by Application

2.5.4.1 Global Low-Expansion Silicon Carbon Anode Material Sale Market Share by Application (2021-2026)

2.5.4.2 Global Low-Expansion Silicon Carbon Anode Material Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Low-Expansion Silicon Carbon Anode Material Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Low-Expansion Silicon Carbon Anode Material Breakdown Data by Company

3.1.1 Global Low-Expansion Silicon Carbon Anode Material Annual Sales by Company (2021-2026)

3.1.2 Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Company (2021-2026)

3.2 Global Low-Expansion Silicon Carbon Anode Material Annual Revenue by Company (2021-2026)

3.2.1 Global Low-Expansion Silicon Carbon Anode Material Revenue by Company (2021-2026)

3.2.2 Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Company (2021-2026)

- 3.3 Global Low-Expansion Silicon Carbon Anode Material Sale Price by Company
- 3.4 Key Manufacturers Low-Expansion Silicon Carbon Anode Material Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Low-Expansion Silicon Carbon Anode Material Product Location Distribution
 - 3.4.2 Players Low-Expansion Silicon Carbon Anode Material 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 LOW-EXPANSION SILICON CARBON ANODE MATERIAL BY GEOGRAPHIC REGION

- 4.1 World Historic Low-Expansion Silicon Carbon Anode Material Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Low-Expansion Silicon Carbon Anode Material Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Low-Expansion Silicon Carbon Anode Material Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Low-Expansion Silicon Carbon Anode Material Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Low-Expansion Silicon Carbon Anode Material Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Low-Expansion Silicon Carbon Anode Material Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Low-Expansion Silicon Carbon Anode Material Sales Growth
- 4.4 APAC Low-Expansion Silicon Carbon Anode Material Sales Growth
- 4.5 Europe Low-Expansion Silicon Carbon Anode Material Sales Growth
- 4.6 Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales Growth

5 AMERICAS

- 5.1 Americas Low-Expansion Silicon Carbon Anode Material Sales by Country
 - 5.1.1 Americas Low-Expansion Silicon Carbon Anode Material Sales by Country (2021-2026)
 - 5.1.2 Americas Low-Expansion Silicon Carbon Anode Material Revenue by Country (2021-2026)

5.2 Americas Low-Expansion Silicon Carbon Anode Material Sales by Type
(2021-2026)

5.3 Americas Low-Expansion Silicon Carbon Anode Material Sales by Application
(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Low-Expansion Silicon Carbon Anode Material Sales by Region

6.1.1 APAC Low-Expansion Silicon Carbon Anode Material Sales by Region
(2021-2026)

6.1.2 APAC Low-Expansion Silicon Carbon Anode Material Revenue by Region
(2021-2026)

6.2 APAC Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026)

6.3 APAC Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material by Country

7.1.1 Europe Low-Expansion Silicon Carbon Anode Material Sales by Country
(2021-2026)

7.1.2 Europe Low-Expansion Silicon Carbon Anode Material Revenue by Country
(2021-2026)

7.2 Europe Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026)

7.3 Europe Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material by Country

8.1.1 Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales by Country (2021-2026)

8.1.2 Middle East & Africa Low-Expansion Silicon Carbon Anode Material Revenue by Country (2021-2026)

8.2 Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026)

8.3 Middle East & Africa Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material

10.3 Manufacturing Process Analysis of Low-Expansion Silicon Carbon Anode Material

10.4 Industry Chain Structure of Low-Expansion Silicon Carbon Anode Material

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

- 11.1.2 Indirect Channels
- 11.2 Low-Expansion Silicon Carbon Anode Material Distributors
- 11.3 Low-Expansion Silicon Carbon Anode Material Customer

12 WORLD FORECAST REVIEW FOR LOW-EXPANSION SILICON CARBON ANODE MATERIAL BY GEOGRAPHIC REGION

- 12.1 Global Low-Expansion Silicon Carbon Anode Material Market Size Forecast by Region
 - 12.1.1 Global Low-Expansion Silicon Carbon Anode Material Forecast by Region (2027-2032)
 - 12.1.2 Global Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Forecast by Type (2027-2032)
- 12.7 Global Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.1.3 Group14 Technologies (USA) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.2.3 Sila Nanotechnologies (USA) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.3.3 Amprius (USA) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.4.3 Zhide Battery (China) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.5.3 Nexeon (UK) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.6.3 Ningbo Shanshan (China) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.7.3 Putailai (China) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.8.3 BTR New Material Group (China) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.9.3 SG Nano (China) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.10.3 Tianmulake Excellent Anode Materials Co (China) Low-Expansion Silicon Carbon Anode Material 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) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications
 - 13.11.3 Shin Etsu Chemical (Japan) Low-Expansion Silicon Carbon Anode Material 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. Low-Expansion Silicon Carbon Anode Material Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026) & (Kilotons)

Table 6. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Type (2021-2026)

Table 7. Global Low-Expansion Silicon Carbon Anode Material Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Type (2021-2026)

Table 9. Global Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales by Method (2021-2026) & (Kilotons)

Table 14. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Method (2021-2026)

Table 15. Global Low-Expansion Silicon Carbon Anode Material Revenue by Method (2021-2026) & (\$ million)

Table 16. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Method (2021-2026)

Table 17. Global Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales by Specific Capacity (2021-2026) & (Kilotons)

Table 21. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Specific Capacity (2021-2026)

Table 22. Global Low-Expansion Silicon Carbon Anode Material Revenue by Specific Capacity (2021-2026) & (\$ million)

Table 23. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Specific Capacity (2021-2026)

Table 24. Global Low-Expansion Silicon Carbon Anode Material Sale Price by Specific Capacity (2021-2026) & (US\$/Ton)

Table 25. Global Low-Expansion Silicon Carbon Anode Material Sale by Application (2021-2026) & (Kilotons)

Table 26. Global Low-Expansion Silicon Carbon Anode Material Sale Market Share by Application (2021-2026)

Table 27. Global Low-Expansion Silicon Carbon Anode Material Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Application (2021-2026)

Table 29. Global Low-Expansion Silicon Carbon Anode Material Sale Price by Application (2021-2026) & (US\$/Ton)

Table 30. Global Low-Expansion Silicon Carbon Anode Material Sales by Company (2021-2026) & (Kilotons)

Table 31. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Company (2021-2026)

Table 32. Global Low-Expansion Silicon Carbon Anode Material Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Company (2021-2026)

Table 34. Global Low-Expansion Silicon Carbon Anode Material Sale Price by Company (2021-2026) & (US\$/Ton)

Table 35. Key Manufacturers Low-Expansion Silicon Carbon Anode Material Producing Area Distribution and Sales Area

Table 36. Players Low-Expansion Silicon Carbon Anode Material Products Offered

Table 37. Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales by Geographic Region (2021-2026) & (Kilotons)

Table 41. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share Geographic Region (2021-2026)

Table 42. Global Low-Expansion Silicon Carbon Anode Material Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Low-Expansion Silicon Carbon Anode Material Sales by Country/Region (2021-2026) & (Kilotons)

Table 45. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Country/Region (2021-2026)

Table 46. Global Low-Expansion Silicon Carbon Anode Material Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Low-Expansion Silicon Carbon Anode Material Sales by Country (2021-2026) & (Kilotons)

Table 49. Americas Low-Expansion Silicon Carbon Anode Material Sales Market Share by Country (2021-2026)

Table 50. Americas Low-Expansion Silicon Carbon Anode Material Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026) & (Kilotons)

Table 52. Americas Low-Expansion Silicon Carbon Anode Material Sales by Application (2021-2026) & (Kilotons)

Table 53. APAC Low-Expansion Silicon Carbon Anode Material Sales by Region (2021-2026) & (Kilotons)

Table 54. APAC Low-Expansion Silicon Carbon Anode Material Sales Market Share by Region (2021-2026)

Table 55. APAC Low-Expansion Silicon Carbon Anode Material Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026) & (Kilotons)

Table 57. APAC Low-Expansion Silicon Carbon Anode Material Sales by Application (2021-2026) & (Kilotons)

Table 58. Europe Low-Expansion Silicon Carbon Anode Material Sales by Country (2021-2026) & (Kilotons)

Table 59. Europe Low-Expansion Silicon Carbon Anode Material Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026) & (Kilotons)

Table 61. Europe Low-Expansion Silicon Carbon Anode Material Sales by Application (2021-2026) & (Kilotons)

Table 62. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales by

Country (2021-2026) & (Kilotons)

Table 63. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales by Type (2021-2026) & (Kilotons)

Table 65. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales by Application (2021-2026) & (Kilotons)

Table 66. Key Market Drivers & Growth Opportunities of Low-Expansion Silicon Carbon Anode Material

Table 67. Key Market Challenges & Risks of Low-Expansion Silicon Carbon Anode Material

Table 68. Key Industry Trends of Low-Expansion Silicon Carbon Anode Material

Table 69. Low-Expansion Silicon Carbon Anode Material Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Low-Expansion Silicon Carbon Anode Material Distributors List

Table 72. Low-Expansion Silicon Carbon Anode Material Customer List

Table 73. Global Low-Expansion Silicon Carbon Anode Material Sales Forecast by Region (2027-2032) & (Kilotons)

Table 74. Global Low-Expansion Silicon Carbon Anode Material Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas Low-Expansion Silicon Carbon Anode Material Sales Forecast by Country (2027-2032) & (Kilotons)

Table 76. Americas Low-Expansion Silicon Carbon Anode Material Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC Low-Expansion Silicon Carbon Anode Material Sales Forecast by Region (2027-2032) & (Kilotons)

Table 78. APAC Low-Expansion Silicon Carbon Anode Material Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe Low-Expansion Silicon Carbon Anode Material Sales Forecast by Country (2027-2032) & (Kilotons)

Table 80. Europe Low-Expansion Silicon Carbon Anode Material Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales Forecast by Country (2027-2032) & (Kilotons)

Table 82. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Low-Expansion Silicon Carbon Anode Material Sales Forecast by Type (2027-2032) & (Kilotons)

Table 84. Global Low-Expansion Silicon Carbon Anode Material Revenue Forecast by

Type (2027-2032) & (\$ millions)

Table 85. Global Low-Expansion Silicon Carbon Anode Material Sales Forecast by Application (2027-2032) & (Kilotons)

Table 86. Global Low-Expansion Silicon Carbon Anode Material Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Group14 Technologies (USA) Basic Information, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 88. Group14 Technologies (USA) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 89. Group14 Technologies (USA) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 93. Sila Nanotechnologies (USA) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 94. Sila Nanotechnologies (USA) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 98. Amprius (USA) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 99. Amprius (USA) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 103. Zhide Battery (China) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 104. Zhide Battery (China) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 108. Nexeon (UK) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 109. Nexeon (UK) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 113. Ningbo Shanshan (China) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 114. Ningbo Shanshan (China) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 118. Putailai (China) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 119. Putailai (China) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 123. BTR New Material Group (China) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 124. BTR New Material Group (China) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 128. SG Nano (China) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 129. SG Nano (China) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 133. Tianmulake Excellent Anode Materials Co (China) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 134. Tianmulake Excellent Anode Materials Co (China) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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, Low-Expansion Silicon Carbon Anode Material Manufacturing Base, Sales Area and Its Competitors

Table 138. Shin Etsu Chemical (Japan) Low-Expansion Silicon Carbon Anode Material Product Portfolios and Specifications

Table 139. Shin Etsu Chemical (Japan) Low-Expansion Silicon Carbon Anode Material Sales (Kilotons), 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 Low-Expansion Silicon Carbon Anode Material
- Figure 2. Low-Expansion Silicon Carbon Anode Material Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Low-Expansion Silicon Carbon Anode Material Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global Low-Expansion Silicon Carbon Anode Material Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Low-Expansion Silicon Carbon Anode Material Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Low-Expansion Silicon Carbon Anode Material Sales Market Share by Country/Region (2025)
- Figure 10. Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales Market Share by Type in 2026
- Figure 14. Global Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales Market Share by Method in 2026
- Figure 19. Global Low-Expansion Silicon Carbon Anode Material 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 Low-Expansion Silicon Carbon Anode Material Sales Market Share by Specific Capacity in 2026
- Figure 23. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Specific Capacity (2021-2026)
- Figure 24. Low-Expansion Silicon Carbon Anode Material Consumed in Power Battery

Figure 25. Global Low-Expansion Silicon Carbon Anode Material Market: Power Battery (2021-2026) & (Kilotons)

Figure 26. Low-Expansion Silicon Carbon Anode Material Consumed in Consumer Battery

Figure 27. Global Low-Expansion Silicon Carbon Anode Material Market: Consumer Battery (2021-2026) & (Kilotons)

Figure 28. Low-Expansion Silicon Carbon Anode Material Consumed in Others

Figure 29. Global Low-Expansion Silicon Carbon Anode Material Market: Others (2021-2026) & (Kilotons)

Figure 30. Global Low-Expansion Silicon Carbon Anode Material Sale Market Share by Application (2025)

Figure 31. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Application in 2025

Figure 32. Low-Expansion Silicon Carbon Anode Material Sales by Company in 2025 (Kilotons)

Figure 33. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Company in 2025

Figure 34. Low-Expansion Silicon Carbon Anode Material Revenue by Company in 2025 (\$ millions)

Figure 35. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Company in 2025

Figure 36. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share by Geographic Region (2021-2026)

Figure 37. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Geographic Region in 2025

Figure 38. Americas Low-Expansion Silicon Carbon Anode Material Sales 2021-2026 (Kilotons)

Figure 39. Americas Low-Expansion Silicon Carbon Anode Material Revenue 2021-2026 (\$ millions)

Figure 40. APAC Low-Expansion Silicon Carbon Anode Material Sales 2021-2026 (Kilotons)

Figure 41. APAC Low-Expansion Silicon Carbon Anode Material Revenue 2021-2026 (\$ millions)

Figure 42. Europe Low-Expansion Silicon Carbon Anode Material Sales 2021-2026 (Kilotons)

Figure 43. Europe Low-Expansion Silicon Carbon Anode Material Revenue 2021-2026 (\$ millions)

Figure 44. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales 2021-2026 (Kilotons)

Figure 45. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Revenue 2021-2026 (\$ millions)

Figure 46. Americas Low-Expansion Silicon Carbon Anode Material Sales Market Share by Country in 2025

Figure 47. Americas Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Country (2021-2026)

Figure 48. Americas Low-Expansion Silicon Carbon Anode Material Sales Market Share by Type (2021-2026)

Figure 49. Americas Low-Expansion Silicon Carbon Anode Material Sales Market Share by Application (2021-2026)

Figure 50. United States Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 51. Canada Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC Low-Expansion Silicon Carbon Anode Material Sales Market Share by Region in 2025

Figure 55. APAC Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Region (2021-2026)

Figure 56. APAC Low-Expansion Silicon Carbon Anode Material Sales Market Share by Type (2021-2026)

Figure 57. APAC Low-Expansion Silicon Carbon Anode Material Sales Market Share by Application (2021-2026)

Figure 58. China Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 62. India Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan Low-Expansion Silicon Carbon Anode Material Revenue

Growth 2021-2026 (\$ millions)

Figure 65. Europe Low-Expansion Silicon Carbon Anode Material Sales Market Share by Country in 2025

Figure 66. Europe Low-Expansion Silicon Carbon Anode Material Revenue Market Share by Country (2021-2026)

Figure 67. Europe Low-Expansion Silicon Carbon Anode Material Sales Market Share by Type (2021-2026)

Figure 68. Europe Low-Expansion Silicon Carbon Anode Material Sales Market Share by Application (2021-2026)

Figure 69. Germany Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 70. France Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales Market Share by Country (2021-2026)

Figure 75. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa Low-Expansion Silicon Carbon Anode Material Sales Market Share by Application (2021-2026)

Figure 77. Egypt Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries Low-Expansion Silicon Carbon Anode Material Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of Low-Expansion Silicon Carbon Anode Material in 2026

Figure 83. Manufacturing Process Analysis of Low-Expansion Silicon Carbon Anode Material

Figure 84. Industry Chain Structure of Low-Expansion Silicon Carbon Anode Material

Figure 85. Channels of Distribution

Figure 86. Global Low-Expansion Silicon Carbon Anode Material Sales Market Forecast by Region (2027-2032)

Figure 87. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share Forecast by Region (2027-2032)

Figure 88. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share Forecast by Type (2027-2032)

Figure 89. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share Forecast by Type (2027-2032)

Figure 90. Global Low-Expansion Silicon Carbon Anode Material Sales Market Share Forecast by Application (2027-2032)

Figure 91. Global Low-Expansion Silicon Carbon Anode Material Revenue Market Share Forecast by Application (2027-2032)

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