

# Global Pre-lithiated Silicon-Carbon Anode Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Pre-lithiated Silicon-Carbon Anode market size is expected to reach \$ 298 million by 2032, rising at a market growth of 39.1% CAGR during the forecast period (2026-2032).

Pre-lithiated Silicon-Carbon Anode is an advanced lithium-ion battery anode material engineered by introducing a controlled pre-lithiation process into a silicon-carbon composite structure, effectively compensating for initial lithium loss and enhancing first-cycle efficiency while maintaining structural stability during repeated cycling. By stabilizing the solid electrolyte interphase and reducing irreversible capacity loss, it significantly improves energy utilization and cycle durability. It is particularly suited for high-performance battery systems requiring high initial efficiency and long-term stability. Its advantages include high specific capacity, improved initial coulombic efficiency, enhanced cycle stability, and strong structural integrity. In 2025, the capacity utilization rate reached 73% and the industry's average gross margin was approximately 35%. Production in 2025 totaled 362 tons at an average price of USD 83,000 per ton. Upstream, the key raw materials include metallurgical silicon, silane, graphite, and porous carbon, with representative suppliers such as Elkem, Hemlock, and East Hope Group ensuring stable material supply and quality consistency. The midstream focuses on pre-lithiation processing, material structuring, coating, and particle size control to optimize electrochemical performance and mechanical stability. Downstream applications are primarily in automotive and consumer electronics lithium-ion batteries, with key customers including Tesla, CATL, BYD, Samsung, and LG Energy Solution.

Pre-lithiated Silicon-Carbon Anode is increasingly aligned with the performance requirements of next-generation lithium-ion batteries, particularly in applications where high initial efficiency and energy utilization are critical. In automotive systems, it helps

improve driving range consistency and fast-charging stability, while in consumer electronics it supports higher energy density within limited form factors. As battery systems move toward higher silicon content, pre-lithiation becomes an important approach to mitigate initial capacity loss and enhance cycle reliability. However, process complexity and cost control remain key constraints.

This report studies the global Pre-lithiated Silicon-Carbon Anode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pre-lithiated Silicon-Carbon Anode and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pre-lithiated Silicon-Carbon Anode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pre-lithiated Silicon-Carbon Anode total production and demand, 2021-2032, (Tonnes)

Global Pre-lithiated Silicon-Carbon Anode total production value, 2021-2032, (USD Million)

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

Global Pre-lithiated Silicon-Carbon Anode consumption by region & country, CAGR, 2021-2032 & (Tonnes)

U.S. VS China: Pre-lithiated Silicon-Carbon Anode domestic production, consumption, key domestic manufacturers and share

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

Global Pre-lithiated Silicon-Carbon Anode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

Global Pre-lithiated Silicon-Carbon Anode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

This report profiles key players in the global Pre-lithiated Silicon-Carbon Anode market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pre-lithiated Silicon-Carbon Anode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tonnes) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Pre-lithiated Silicon-Carbon Anode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pre-lithiated Silicon-Carbon Anode Market, Segmentation by Type:

Nano Silicon

Micro Silicon

Silicon Oxide (SiOx)

Global Pre-lithiated Silicon-Carbon Anode Market, Segmentation by Method:

Mechanical Ball Milling

Chemical Vapor Deposition(CVD)

Others

Global Pre-lithiated Silicon-Carbon Anode Market, Segmentation by Specific Capacity:

Specific Capacity ? 1,000 mAh/g

Specific Capacity ? 1,000 mAh/g

Global Pre-lithiated Silicon-Carbon Anode Market, Segmentation by Application:

Power Battery

Consumer Battery

Others

Companies Profiled:

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 Answered:

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World Pre-lithiated Silicon-Carbon Anode Demand (2021-2032)
- 2.2 World Pre-lithiated Silicon-Carbon Anode Consumption by Region
  - 2.2.1 World Pre-lithiated Silicon-Carbon Anode Consumption by Region (2021-2026)
  - 2.2.2 World Pre-lithiated Silicon-Carbon Anode Consumption Forecast by Region (2027-2032)
- 2.3 United States Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032)
- 2.4 China Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032)
- 2.5 Europe Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032)
- 2.6 Japan Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032)
- 2.7 South Korea Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032)
- 2.8 ASEAN Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032)
- 2.9 India Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Pre-lithiated Silicon-Carbon Anode Production Value by Manufacturer (2021-2026)

3.2 World Pre-lithiated Silicon-Carbon Anode Production by Manufacturer (2021-2026)

3.3 World Pre-lithiated Silicon-Carbon Anode Average Price by Manufacturer (2021-2026)

3.4 Pre-lithiated Silicon-Carbon Anode Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Pre-lithiated Silicon-Carbon Anode Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Pre-lithiated Silicon-Carbon Anode in 2025

3.5.3 Global Concentration Ratios (CR8) for Pre-lithiated Silicon-Carbon Anode in 2025

3.6 Pre-lithiated Silicon-Carbon Anode Market: Overall Company Footprint Analysis

3.6.1 Pre-lithiated Silicon-Carbon Anode Market: Region Footprint

3.6.2 Pre-lithiated Silicon-Carbon Anode Market: Company Product Type Footprint

3.6.3 Pre-lithiated Silicon-Carbon Anode Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Pre-lithiated Silicon-Carbon Anode Production Value Comparison

4.1.1 United States VS China: Pre-lithiated Silicon-Carbon Anode Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Pre-lithiated Silicon-Carbon Anode Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Pre-lithiated Silicon-Carbon Anode Production Comparison

4.2.1 United States VS China: Pre-lithiated Silicon-Carbon Anode Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Pre-lithiated Silicon-Carbon Anode Production Market

Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Pre-lithiated Silicon-Carbon Anode Consumption Comparison

4.3.1 United States VS China: Pre-lithiated Silicon-Carbon Anode Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Pre-lithiated Silicon-Carbon Anode Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Pre-lithiated Silicon-Carbon Anode Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Pre-lithiated Silicon-Carbon Anode Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Value (2021-2026)

4.4.3 United States Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production (2021-2026)

4.5 China Based Pre-lithiated Silicon-Carbon Anode Manufacturers and Market Share

4.5.1 China Based Pre-lithiated Silicon-Carbon Anode Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Value (2021-2026)

4.5.3 China Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production (2021-2026)

4.6 Rest of World Based Pre-lithiated Silicon-Carbon Anode Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Pre-lithiated Silicon-Carbon Anode Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Pre-lithiated Silicon-Carbon Anode Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Nano Silicon

5.2.2 Micro Silicon

5.2.3 Silicon Oxide (SiO<sub>x</sub>)

### 5.3 Market Segment by Type

5.3.1 World Pre-lithiated Silicon-Carbon Anode Production by Type (2021-2032)

5.3.2 World Pre-lithiated Silicon-Carbon Anode Production Value by Type (2021-2032)

5.3.3 World Pre-lithiated Silicon-Carbon Anode Average Price by Type (2021-2032)

## 6 MARKET ANALYSIS BY METHOD

6.1 World Pre-lithiated Silicon-Carbon Anode Market Size Overview by Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Method

6.2.1 Mechanical Ball Milling

6.2.2 Chemical Vapor Deposition(CVD)

6.2.3 Others

6.3 Market Segment by Method

6.3.1 World Pre-lithiated Silicon-Carbon Anode Production by Method (2021-2032)

6.3.2 World Pre-lithiated Silicon-Carbon Anode Production Value by Method (2021-2032)

6.3.3 World Pre-lithiated Silicon-Carbon Anode Average Price by Method (2021-2032)

## 7 MARKET ANALYSIS BY SPECIFIC CAPACITY

7.1 World Pre-lithiated Silicon-Carbon Anode Market Size Overview by Specific Capacity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Specific Capacity

7.2.1 Specific Capacity ? 1,000 mAh/g

7.2.2 Specific Capacity ? 1,000 mAh/g

7.3 Market Segment by Specific Capacity

7.3.1 World Pre-lithiated Silicon-Carbon Anode Production by Specific Capacity (2021-2032)

7.3.2 World Pre-lithiated Silicon-Carbon Anode Production Value by Specific Capacity (2021-2032)

7.3.3 World Pre-lithiated Silicon-Carbon Anode Average Price by Specific Capacity (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Pre-lithiated Silicon-Carbon Anode Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Battery

8.2.2 Consumer Battery

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Pre-lithiated Silicon-Carbon Anode Production by Application (2021-2032)

8.3.2 World Pre-lithiated Silicon-Carbon Anode Production Value by Application (2021-2032)

8.3.3 World Pre-lithiated Silicon-Carbon Anode Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Group14 Technologies (USA)

9.1.1 Group14 Technologies (USA) Details

9.1.2 Group14 Technologies (USA) Major Business

9.1.3 Group14 Technologies (USA) Pre-lithiated Silicon-Carbon Anode Product and Services

9.1.4 Group14 Technologies (USA) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Group14 Technologies (USA) Recent Developments/Updates

9.1.6 Group14 Technologies (USA) Competitive Strengths & Weaknesses

9.2 Sila Nanotechnologies (USA)

9.2.1 Sila Nanotechnologies (USA) Details

9.2.2 Sila Nanotechnologies (USA) Major Business

9.2.3 Sila Nanotechnologies (USA) Pre-lithiated Silicon-Carbon Anode Product and Services

9.2.4 Sila Nanotechnologies (USA) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Sila Nanotechnologies (USA) Recent Developments/Updates

9.2.6 Sila Nanotechnologies (USA) Competitive Strengths & Weaknesses

9.3 Amprius (USA)

9.3.1 Amprius (USA) Details

9.3.2 Amprius (USA) Major Business

9.3.3 Amprius (USA) Pre-lithiated Silicon-Carbon Anode Product and Services

9.3.4 Amprius (USA) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Amprius (USA) Recent Developments/Updates

9.3.6 Amprius (USA) Competitive Strengths & Weaknesses

9.4 Zhide Battery (China)

- 9.4.1 Zhide Battery (China) Details
- 9.4.2 Zhide Battery (China) Major Business
- 9.4.3 Zhide Battery (China) Pre-lithiated Silicon-Carbon Anode Product and Services
- 9.4.4 Zhide Battery (China) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Zhide Battery (China) Recent Developments/Updates
- 9.4.6 Zhide Battery (China) Competitive Strengths & Weaknesses
- 9.5 Nexeon (UK)
  - 9.5.1 Nexeon (UK) Details
  - 9.5.2 Nexeon (UK) Major Business
  - 9.5.3 Nexeon (UK) Pre-lithiated Silicon-Carbon Anode Product and Services
  - 9.5.4 Nexeon (UK) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Nexeon (UK) Recent Developments/Updates
  - 9.5.6 Nexeon (UK) Competitive Strengths & Weaknesses
- 9.6 Ningbo Shanshan (China)
  - 9.6.1 Ningbo Shanshan (China) Details
  - 9.6.2 Ningbo Shanshan (China) Major Business
  - 9.6.3 Ningbo Shanshan (China) Pre-lithiated Silicon-Carbon Anode Product and Services
  - 9.6.4 Ningbo Shanshan (China) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Ningbo Shanshan (China) Recent Developments/Updates
  - 9.6.6 Ningbo Shanshan (China) Competitive Strengths & Weaknesses
- 9.7 Putailai (China)
  - 9.7.1 Putailai (China) Details
  - 9.7.2 Putailai (China) Major Business
  - 9.7.3 Putailai (China) Pre-lithiated Silicon-Carbon Anode Product and Services
  - 9.7.4 Putailai (China) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Putailai (China) Recent Developments/Updates
  - 9.7.6 Putailai (China) Competitive Strengths & Weaknesses
- 9.8 BTR New Material Group (China)
  - 9.8.1 BTR New Material Group (China) Details
  - 9.8.2 BTR New Material Group (China) Major Business
  - 9.8.3 BTR New Material Group (China) Pre-lithiated Silicon-Carbon Anode Product and Services
  - 9.8.4 BTR New Material Group (China) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.8.5 BTR New Material Group (China) Recent Developments/Updates
- 9.8.6 BTR New Material Group (China) Competitive Strengths & Weaknesses
- 9.9 SG Nano (China)
  - 9.9.1 SG Nano (China) Details
  - 9.9.2 SG Nano (China) Major Business
  - 9.9.3 SG Nano (China) Pre-lithiated Silicon-Carbon Anode Product and Services
  - 9.9.4 SG Nano (China) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 SG Nano (China) Recent Developments/Updates
  - 9.9.6 SG Nano (China) Competitive Strengths & Weaknesses
- 9.10 Tianmulake Excellent Anode Materials Co (China)
  - 9.10.1 Tianmulake Excellent Anode Materials Co (China) Details
  - 9.10.2 Tianmulake Excellent Anode Materials Co (China) Major Business
  - 9.10.3 Tianmulake Excellent Anode Materials Co (China) Pre-lithiated Silicon-Carbon Anode Product and Services
  - 9.10.4 Tianmulake Excellent Anode Materials Co (China) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Tianmulake Excellent Anode Materials Co (China) Recent Developments/Updates
  - 9.10.6 Tianmulake Excellent Anode Materials Co (China) Competitive Strengths & Weaknesses
- 9.11 Shin Etsu Chemical (Japan)
  - 9.11.1 Shin Etsu Chemical (Japan) Details
  - 9.11.2 Shin Etsu Chemical (Japan) Major Business
  - 9.11.3 Shin Etsu Chemical (Japan) Pre-lithiated Silicon-Carbon Anode Product and Services
  - 9.11.4 Shin Etsu Chemical (Japan) Pre-lithiated Silicon-Carbon Anode Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Shin Etsu Chemical (Japan) Recent Developments/Updates
  - 9.11.6 Shin Etsu Chemical (Japan) Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Pre-lithiated Silicon-Carbon Anode Industry Chain
- 10.2 Pre-lithiated Silicon-Carbon Anode Upstream Analysis
  - 10.2.1 Pre-lithiated Silicon-Carbon Anode Core Raw Materials
  - 10.2.2 Main Manufacturers of Pre-lithiated Silicon-Carbon Anode Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis

- 10.5 Pre-lithiated Silicon-Carbon Anode Production Mode
- 10.6 Pre-lithiated Silicon-Carbon Anode Procurement Model
- 10.7 Pre-lithiated Silicon-Carbon Anode Industry Sales Model and Sales Channels
  - 10.7.1 Pre-lithiated Silicon-Carbon Anode Sales Model
  - 10.7.2 Pre-lithiated Silicon-Carbon Anode Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Pre-lithiated Silicon-Carbon Anode Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Pre-lithiated Silicon-Carbon Anode Production Value by Region (2021-2026) & (USD Million)

Table 3. World Pre-lithiated Silicon-Carbon Anode Production Value by Region (2027-2032) & (USD Million)

Table 4. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Region (2021-2026)

Table 5. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Region (2027-2032)

Table 6. World Pre-lithiated Silicon-Carbon Anode Production by Region (2021-2026) & (Tonnes)

Table 7. World Pre-lithiated Silicon-Carbon Anode Production by Region (2027-2032) & (Tonnes)

Table 8. World Pre-lithiated Silicon-Carbon Anode Production Market Share by Region (2021-2026)

Table 9. World Pre-lithiated Silicon-Carbon Anode Production Market Share by Region (2027-2032)

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

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

Table 12. Pre-lithiated Silicon-Carbon Anode Major Market Trends

Table 13. World Pre-lithiated Silicon-Carbon Anode Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tonnes)

Table 14. World Pre-lithiated Silicon-Carbon Anode Consumption by Region (2021-2026) & (Tonnes)

Table 15. World Pre-lithiated Silicon-Carbon Anode Consumption Forecast by Region (2027-2032) & (Tonnes)

Table 16. World Pre-lithiated Silicon-Carbon Anode Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Pre-lithiated Silicon-Carbon Anode Producers in 2025

Table 18. World Pre-lithiated Silicon-Carbon Anode Production by Manufacturer (2021-2026) & (Tonnes)

Table 19. Production Market Share of Key Pre-lithiated Silicon-Carbon Anode Producers in 2025

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

Table 21. Global Pre-lithiated Silicon-Carbon Anode Company Evaluation Quadrant

Table 22. World Pre-lithiated Silicon-Carbon Anode Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Pre-lithiated Silicon-Carbon Anode Production Site of Key Manufacturer

Table 24. Pre-lithiated Silicon-Carbon Anode Market: Company Product Type Footprint

Table 25. Pre-lithiated Silicon-Carbon Anode Market: Company Product Application Footprint

Table 26. Pre-lithiated Silicon-Carbon Anode Competitive Factors

Table 27. Pre-lithiated Silicon-Carbon Anode New Entrant and Capacity Expansion Plans

Table 28. Pre-lithiated Silicon-Carbon Anode Mergers & Acquisitions Activity

Table 29. United States VS China Pre-lithiated Silicon-Carbon Anode Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Pre-lithiated Silicon-Carbon Anode Production Comparison, (2021 & 2025 & 2032) & (Tonnes)

Table 31. United States VS China Pre-lithiated Silicon-Carbon Anode Consumption Comparison, (2021 & 2025 & 2032) & (Tonnes)

Table 32. United States Based Pre-lithiated Silicon-Carbon Anode Manufacturers, Headquarters and Production Site (States, Country)

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

Table 34. United States Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production (2021-2026) & (Tonnes)

Table 36. United States Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Market Share (2021-2026)

Table 37. China Based Pre-lithiated Silicon-Carbon Anode Manufacturers, Headquarters and Production Site (Province, Country)

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

Table 39. China Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production,

(2021-2026) & (Tonnes)

Table 41. China Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Market Share (2021-2026)

Table 42. Rest of World Based Pre-lithiated Silicon-Carbon Anode Manufacturers, Headquarters and Production Site (State, Country)

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

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

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

Table 46. Rest of World Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Market Share (2021-2026)

Table 47. World Pre-lithiated Silicon-Carbon Anode Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Pre-lithiated Silicon-Carbon Anode Production by Type (2021-2026) & (Tonnes)

Table 49. World Pre-lithiated Silicon-Carbon Anode Production by Type (2027-2032) & (Tonnes)

Table 50. World Pre-lithiated Silicon-Carbon Anode Production Value by Type (2021-2026) & (USD Million)

Table 51. World Pre-lithiated Silicon-Carbon Anode Production Value by Type (2027-2032) & (USD Million)

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

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

Table 54. World Pre-lithiated Silicon-Carbon Anode Production Value by Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Pre-lithiated Silicon-Carbon Anode Production by Method (2021-2026) & (Tonnes)

Table 56. World Pre-lithiated Silicon-Carbon Anode Production by Method (2027-2032) & (Tonnes)

Table 57. World Pre-lithiated Silicon-Carbon Anode Production Value by Method (2021-2026) & (USD Million)

Table 58. World Pre-lithiated Silicon-Carbon Anode Production Value by Method (2027-2032) & (USD Million)

Table 59. World Pre-lithiated Silicon-Carbon Anode Average Price by Method (2021-2026) & (US\$/Ton)

Table 60. World Pre-lithiated Silicon-Carbon Anode Average Price by Method (2027-2032) & (US\$/Ton)

Table 61. World Pre-lithiated Silicon-Carbon Anode Production Value by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Table 62. World Pre-lithiated Silicon-Carbon Anode Production by Specific Capacity (2021-2026) & (Tonnes)

Table 63. World Pre-lithiated Silicon-Carbon Anode Production by Specific Capacity (2027-2032) & (Tonnes)

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

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

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

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

Table 68. World Pre-lithiated Silicon-Carbon Anode Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Pre-lithiated Silicon-Carbon Anode Production by Application (2021-2026) & (Tonnes)

Table 70. World Pre-lithiated Silicon-Carbon Anode Production by Application (2027-2032) & (Tonnes)

Table 71. World Pre-lithiated Silicon-Carbon Anode Production Value by Application (2021-2026) & (USD Million)

Table 72. World Pre-lithiated Silicon-Carbon Anode Production Value by Application (2027-2032) & (USD Million)

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

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

Table 75. Group14 Technologies (USA) Basic Information, Manufacturing Base and Competitors

Table 76. Group14 Technologies (USA) Major Business

Table 77. Group14 Technologies (USA) Pre-lithiated Silicon-Carbon Anode Product and Services

Table 78. Group14 Technologies (USA) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Group14 Technologies (USA) Recent Developments/Updates

- Table 80. Group14 Technologies (USA) Competitive Strengths & Weaknesses
- Table 81. Sila Nanotechnologies (USA) Basic Information, Manufacturing Base and Competitors
- Table 82. Sila Nanotechnologies (USA) Major Business
- Table 83. Sila Nanotechnologies (USA) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 84. Sila Nanotechnologies (USA) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Sila Nanotechnologies (USA) Recent Developments/Updates
- Table 86. Sila Nanotechnologies (USA) Competitive Strengths & Weaknesses
- Table 87. Amprius (USA) Basic Information, Manufacturing Base and Competitors
- Table 88. Amprius (USA) Major Business
- Table 89. Amprius (USA) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 90. Amprius (USA) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Amprius (USA) Recent Developments/Updates
- Table 92. Amprius (USA) Competitive Strengths & Weaknesses
- Table 93. Zhide Battery (China) Basic Information, Manufacturing Base and Competitors
- Table 94. Zhide Battery (China) Major Business
- Table 95. Zhide Battery (China) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 96. Zhide Battery (China) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Zhide Battery (China) Recent Developments/Updates
- Table 98. Zhide Battery (China) Competitive Strengths & Weaknesses
- Table 99. Nexeon (UK) Basic Information, Manufacturing Base and Competitors
- Table 100. Nexeon (UK) Major Business
- Table 101. Nexeon (UK) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 102. Nexeon (UK) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Nexeon (UK) Recent Developments/Updates
- Table 104. Nexeon (UK) Competitive Strengths & Weaknesses
- Table 105. Ningbo Shanshan (China) Basic Information, Manufacturing Base and Competitors

- Table 106. Ningbo Shanshan (China) Major Business
- Table 107. Ningbo Shanshan (China) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 108. Ningbo Shanshan (China) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Ningbo Shanshan (China) Recent Developments/Updates
- Table 110. Ningbo Shanshan (China) Competitive Strengths & Weaknesses
- Table 111. Putailai (China) Basic Information, Manufacturing Base and Competitors
- Table 112. Putailai (China) Major Business
- Table 113. Putailai (China) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 114. Putailai (China) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Putailai (China) Recent Developments/Updates
- Table 116. Putailai (China) Competitive Strengths & Weaknesses
- Table 117. BTR New Material Group (China) Basic Information, Manufacturing Base and Competitors
- Table 118. BTR New Material Group (China) Major Business
- Table 119. BTR New Material Group (China) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 120. BTR New Material Group (China) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. BTR New Material Group (China) Recent Developments/Updates
- Table 122. BTR New Material Group (China) Competitive Strengths & Weaknesses
- Table 123. SG Nano (China) Basic Information, Manufacturing Base and Competitors
- Table 124. SG Nano (China) Major Business
- Table 125. SG Nano (China) Pre-lithiated Silicon-Carbon Anode Product and Services
- Table 126. SG Nano (China) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. SG Nano (China) Recent Developments/Updates
- Table 128. SG Nano (China) Competitive Strengths & Weaknesses
- Table 129. Tianmulake Excellent Anode Materials Co (China) Basic Information, Manufacturing Base and Competitors
- Table 130. Tianmulake Excellent Anode Materials Co (China) Major Business
- Table 131. Tianmulake Excellent Anode Materials Co (China) Pre-lithiated Silicon-Carbon Anode Product and Services

Table 132. Tianmulake Excellent Anode Materials Co (China) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Tianmulake Excellent Anode Materials Co (China) Recent Developments/Updates

Table 134. Tianmulake Excellent Anode Materials Co (China) Competitive Strengths & Weaknesses

Table 135. Shin Etsu Chemical (Japan) Basic Information, Manufacturing Base and Competitors

Table 136. Shin Etsu Chemical (Japan) Major Business

Table 137. Shin Etsu Chemical (Japan) Pre-lithiated Silicon-Carbon Anode Product and Services

Table 138. Shin Etsu Chemical (Japan) Pre-lithiated Silicon-Carbon Anode Production (Tonnes), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shin Etsu Chemical (Japan) Recent Developments/Updates

Table 140. Shin Etsu Chemical (Japan) Competitive Strengths & Weaknesses

Table 141. Global Key Players of Pre-lithiated Silicon-Carbon Anode Upstream (Raw Materials)

Table 142. Global Pre-lithiated Silicon-Carbon Anode Typical Customers

Table 143. Pre-lithiated Silicon-Carbon Anode Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Pre-lithiated Silicon-Carbon Anode Picture

Figure 2. World Pre-lithiated Silicon-Carbon Anode Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Pre-lithiated Silicon-Carbon Anode Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Pre-lithiated Silicon-Carbon Anode Production (2021-2032) & (Tonnes)

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

Figure 6. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Region (2021-2032)

Figure 7. World Pre-lithiated Silicon-Carbon Anode Production Market Share by Region (2021-2032)

Figure 8. North America Pre-lithiated Silicon-Carbon Anode Production (2021-2032) & (Tonnes)

Figure 9. Europe Pre-lithiated Silicon-Carbon Anode Production (2021-2032) & (Tonnes)

Figure 10. China Pre-lithiated Silicon-Carbon Anode Production (2021-2032) & (Tonnes)

Figure 11. Japan Pre-lithiated Silicon-Carbon Anode Production (2021-2032) & (Tonnes)

Figure 12. Pre-lithiated Silicon-Carbon Anode Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) & (Tonnes)

Figure 15. World Pre-lithiated Silicon-Carbon Anode Consumption Market Share by Region (2021-2032)

Figure 16. United States Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) & (Tonnes)

Figure 17. China Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) & (Tonnes)

Figure 18. Europe Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) & (Tonnes)

Figure 19. Japan Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) & (Tonnes)

Figure 20. South Korea Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) &

(Tonnes)

Figure 21. ASEAN Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) &

(Tonnes)

Figure 22. India Pre-lithiated Silicon-Carbon Anode Consumption (2021-2032) &

(Tonnes)

Figure 23. Producer Shipments of Pre-lithiated Silicon-Carbon Anode by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Pre-lithiated Silicon-Carbon Anode Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Pre-lithiated Silicon-Carbon Anode Markets in 2025

Figure 26. United States VS China: Pre-lithiated Silicon-Carbon Anode Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Pre-lithiated Silicon-Carbon Anode Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Pre-lithiated Silicon-Carbon Anode Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Market Share 2025

Figure 30. China Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Pre-lithiated Silicon-Carbon Anode Production Market Share 2025

Figure 32. World Pre-lithiated Silicon-Carbon Anode Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Type in 2025

Figure 34. Nano Silicon

Figure 35. Micro Silicon

Figure 36. Silicon Oxide (SiO<sub>x</sub>)

Figure 37. World Pre-lithiated Silicon-Carbon Anode Production Market Share by Type (2021-2032)

Figure 38. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Type (2021-2032)

Figure 39. World Pre-lithiated Silicon-Carbon Anode Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. World Pre-lithiated Silicon-Carbon Anode Production Value by Method, (USD Million), 2021 & 2025 & 2032

Figure 41. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by

Method in 2025

Figure 42. Mechanical Ball Milling

Figure 43. Chemical Vapor Deposition(CVD)

Figure 44. Others

Figure 45. World Pre-lithiated Silicon-Carbon Anode Production Market Share by Method (2021-2032)

Figure 46. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Method (2021-2032)

Figure 47. World Pre-lithiated Silicon-Carbon Anode Average Price by Method (2021-2032) & (US\$/Ton)

Figure 48. World Pre-lithiated Silicon-Carbon Anode Production Value by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Figure 49. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Specific Capacity in 2025

Figure 50. Specific Capacity ? 1,000 mAh/g

Figure 51. Specific Capacity ? 1,000 mAh/g

Figure 52. World Pre-lithiated Silicon-Carbon Anode Production Market Share by Specific Capacity (2021-2032)

Figure 53. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Specific Capacity (2021-2032)

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

Figure 55. World Pre-lithiated Silicon-Carbon Anode Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Application in 2025

Figure 57. Power Battery

Figure 58. Consumer Battery

Figure 59. Others

Figure 60. World Pre-lithiated Silicon-Carbon Anode Production Market Share by Application (2021-2032)

Figure 61. World Pre-lithiated Silicon-Carbon Anode Production Value Market Share by Application (2021-2032)

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

Figure 63. Pre-lithiated Silicon-Carbon Anode Industry Chain

Figure 64. Pre-lithiated Silicon-Carbon Anode Procurement Model

Figure 65. Pre-lithiated Silicon-Carbon Anode Sales Model

Figure 66. Pre-lithiated Silicon-Carbon Anode Sales Channels, Direct Sales, and

Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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