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Global Silicon-Carbon Anode for Power Battery Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon-Carbon Anode for Power Battery market size was valued at US$ 184 million in 2025 and is forecast to a readjusted size of US$ 509 million by 2032 with a CAGR of 15.6% during review period.

Silicon-Carbon Anode for Power Battery is an advanced anode material designed for high-energy-density lithium-ion batteries. By incorporating nanoscale silicon into a carbon matrix, it significantly enhances specific capacity while maintaining structural stability and long cycle life. Its advantages include high energy density, excellent charge-discharge efficiency, and extended battery lifespan, effectively improving the range and performance stability of power batteries. The capacity utilization rate in 2025 reached 80%, and the industry's average gross margin was approximately 29%. Production in 2025 totaled 9,132 tons at an average price of 19,600 USD per ton. The upstream segment mainly consists of key raw materials such as metallurgical silicon, 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 mainly used in automotive power batteries, with downstream customer representatives including CATL, BYD, and LG Energy Solution.

Silicon-Carbon Anode for Power Battery will be increasingly applied as power battery systems move toward longer driving range, faster charging, and higher energy density. Its application value lies in improving lithium storage capacity while using carbon frameworks to reduce silicon expansion and maintain cycling stability under high-current operation. In electric vehicles, material adoption will depend on compatibility with high-

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nickel cathode systems, fast-charging platforms, and large-scale cell manufacturing processes. Future development will be driven by long-range vehicle models, high-voltage battery platforms, and battery manufacturers' demand for anode materials that balance capacity, safety, and durability.

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

Key Features:

Global Silicon-Carbon Anode for Power Battery market size and forecasts, in consumption value ($ Million), sales quantity (Tonnes), and average selling prices (US$/Ton), 2021-2032

Global Silicon-Carbon Anode for Power Battery market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tonnes), and average selling prices (US$/Ton), 2021-2032

Global Silicon-Carbon Anode for Power Battery market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tonnes), and average selling prices (US$/Ton), 2021-2032

Global Silicon-Carbon Anode for Power Battery market shares of main players, shipments in revenue ($ Million), sales quantity (Tonnes), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Silicon-Carbon Anode for Power Battery

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

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To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon-Carbon Anode for Power Battery market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Group14 Technologies (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.

Market Segmentation

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

Market segment by Type

D10

D50

D90

Others

Market segment by Method

Mechanical Ball Milling

Chemical Vapor Deposition(CVD)

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Others

Market segment by Specific Capacity

Specific Capacity ? 1,000 mAh/g

Specific Capacity ? 1,000 mAh/g

Market segment by Application

Passenger Cars

Commercial Vehicle

Major players covered

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)

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Shin Etsu Chemical (Japan)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Silicon-Carbon Anode for Power Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon-Carbon Anode for Power Battery, with price, sales quantity, revenue, and global market share of Silicon-Carbon Anode for Power Battery from 2021 to 2026.

Chapter 3, the Silicon-Carbon Anode for Power Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

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

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

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

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to 2026.and Silicon-Carbon Anode for Power Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon-Carbon Anode for Power Battery.

Chapter 14 and 15, to describe Silicon-Carbon Anode for Power Battery sales channel, distributors, customers, research findings and conclusion.

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