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Global Porous Silicon–carbon Anode Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Porous Silicon–carbon Anode Material market size is expected to reach $ 689 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032).

Porous Silicon–carbon Anode Material is an advanced lithium-ion battery anode material engineered with porous silicon structures integrated into conductive carbon frameworks to enhance lithium storage efficiency, improve ion diffusion pathways, and alleviate volume expansion during repeated charge and discharge cycles. The porous architecture increases electrolyte accessibility and structural stability, enabling high energy density and long-term electrochemical reliability in demanding battery applications. It is widely used in high-end consumer electronics and power battery systems requiring stable cycling performance and high capacity retention. Its advantages include high specific capacity, improved rate capability, strong structural durability, and extended cycle life. In 2025, production totaled 12,564 tons and the average price was USD 19,500 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 porous silicon structure engineering, silicon-carbon composite design, expansion suppression technology, coating modification processes, and particle morphology optimization to improve electrochemical kinetics and mechanical stability. 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.

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In high-energy lithium-ion battery applications, Porous Silicon–carbon Anode Material will be assessed by capacity retention, expansion control, ion diffusion efficiency, and compatibility with existing electrode processes. As automotive power batteries and premium consumer electronics move toward higher energy density and faster charging, suppliers with stable porous structure design, uniform carbon coating, and consistent particle morphology will have stronger customer validation potential. Profitability will depend on silicon utilization efficiency, precursor cost control, coating yield, and the ability to balance capacity improvement with long-cycle reliability.

This report studies the global Porous Silicon–carbon Anode Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Porous Silicon–carbon Anode Material 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 Porous Silicon–carbon Anode Material that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Porous Silicon–carbon Anode Material total production and demand, 2021-2032, (Tonnes)
Global Porous Silicon–carbon Anode Material total production value, 2021-2032, (USD Million)
Global Porous Silicon–carbon Anode Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes), (based on production site)
Global Porous Silicon–carbon Anode Material consumption by region & country, CAGR, 2021-2032 & (Tonnes)
U.S. VS China: Porous Silicon–carbon Anode Material domestic production, consumption, key domestic manufacturers and share
Global Porous Silicon–carbon Anode Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tonnes)
Global Porous Silicon–carbon Anode Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)
Global Porous Silicon–carbon Anode Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

This report profiles key players in the global Porous Silicon–carbon Anode Material market based on the following parameters - company overview, production, value, price,

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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 Porous Silicon–carbon Anode Material 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 Porous Silicon–carbon Anode Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Porous Silicon–carbon Anode Material Market, Segmentation by Type:

D10

D50

D90

Others

Global Porous Silicon–carbon Anode Material Market, Segmentation by Method:

Mechanical Ball Milling

Chemical Vapor Deposition(CVD)

Others

Global Porous Silicon–carbon Anode Material Market, Segmentation by Specific Capacity:

Specific Capacity ? 1,000 mAh/g

Specific Capacity ? 1,000 mAh/g

Global Porous Silicon–carbon Anode Material Market, Segmentation by Application:

Power Battery

Consumer Battery

Others

Companies Profiled:

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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 Porous Silicon–carbon Anode Material market?
2. What is the demand of the global Porous Silicon–carbon Anode Material market?
3. What is the year over year growth of the global Porous Silicon–carbon Anode Material market?
4. What is the production and production value of the global Porous Silicon–carbon Anode Material market?
5. Who are the key producers in the global Porous Silicon–carbon Anode Material market?
6. What are the growth factors driving the market demand?

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