

Global Advanced Vapor-Deposited Si-C Composite Anode Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G80B16F25D58EN.html>

Date: June 2026

Pages: 135

Price: US\$ 4,480.00 (Single User License)

ID: G80B16F25D58EN

Abstracts

The global Advanced Vapor-Deposited Si-C Composite Anode market size is expected to reach \$ 414 million by 2032, rising at a market growth of 34.2% CAGR during the forecast period (2026-2032).

Advanced Vapor-Deposited Si-C Composite Anode is a next-generation lithium-ion battery anode material developed using vapor deposition technology to construct a highly uniform silicon-carbon composite structure, enabling efficient lithium-ion transport while maintaining structural stability during repeated cycling. By precisely controlling nanoscale silicon distribution within a conductive carbon framework, it improves electrochemical kinetics and mitigates volume expansion effects, enhancing both performance and durability. It is particularly suited for high-performance battery systems requiring a balance between energy density and long-term reliability. Its advantages include high specific capacity, stable cycling performance, improved charge efficiency, 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 1010 tons at an average price of USD 50,500 per ton. Upstream, the key raw materials include 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 vapor deposition 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.

Advanced vapor-deposited Si-C anodes enable step-change improvements in cell-level energy density for electric vehicles and high-end portable electronics. Their precise

silicon architecture manages volume fluctuation effectively, supporting extended cycle protocols. Adoption will scale as vapor deposition aligns with existing battery manufacturing infrastructure. Competitive moats will belong to players with proprietary precursors and process control. The technology supports high-voltage, fast-charge systems while unlocking thinner, higher-capacity cell designs for premium segments.

This report studies the global Advanced Vapor-Deposited Si-C Composite Anode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Advanced Vapor-Deposited Si-C Composite 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 Advanced Vapor-Deposited Si-C Composite Anode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Advanced Vapor-Deposited Si-C Composite Anode total production and demand, 2021-2032, (Tonnes)

Global Advanced Vapor-Deposited Si-C Composite Anode total production value, 2021-2032, (USD Million)

Global Advanced Vapor-Deposited Si-C Composite Anode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes), (based on production site)

Global Advanced Vapor-Deposited Si-C Composite Anode consumption by region & country, CAGR, 2021-2032 & (Tonnes)

U.S. VS China: Advanced Vapor-Deposited Si-C Composite Anode domestic production, consumption, key domestic manufacturers and share

Global Advanced Vapor-Deposited Si-C Composite Anode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tonnes)

Global Advanced Vapor-Deposited Si-C Composite Anode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

Global Advanced Vapor-Deposited Si-C Composite Anode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tonnes)

This report profiles key players in the global Advanced Vapor-Deposited Si-C Composite 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 Advanced Vapor-Deposited Si-C Composite 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 Advanced Vapor-Deposited Si-C Composite Anode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Advanced Vapor-Deposited Si-C Composite Anode Market, Segmentation by

Type:

Nano Silicon

Micro Silicon

Silicon Oxide (SiO_x)

Global Advanced Vapor-Deposited Si-C Composite Anode Market, Segmentation by Particle Size:

D10

D50

Others

Global Advanced Vapor-Deposited Si-C Composite Anode Market, Segmentation by Specific Capacity:

Specific Capacity ? 1,000 mAh/g

Specific Capacity ? 1,000 mAh/g

Global Advanced Vapor-Deposited Si-C Composite 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 Advanced Vapor-Deposited Si-C Composite Anode market?
2. What is the demand of the global Advanced Vapor-Deposited Si-C Composite Anode market?
3. What is the year over year growth of the global Advanced Vapor-Deposited Si-C Composite Anode market?
4. What is the production and production value of the global Advanced Vapor-Deposited Si-C Composite Anode market?
5. Who are the key producers in the global Advanced Vapor-Deposited Si-C Composite Anode market?
6. What are the growth factors driving the market demand?

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