

Global CVD Silicon Anode Material Market Growth 2026-2032

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Abstracts

The global CVD Silicon Anode Material market size is predicted to grow from US\$ 99 million in 2025 to US\$ 262 million in 2032; it is expected to grow at a CAGR of 15.2% from 2026 to 2032.

CVD silicon anode material is a high-performance lithium-ion battery anode material prepared using chemical vapor deposition (CVD) technology, primarily using silicon as the core active material. Silicon is considered a crucial material for next-generation high-energy-density lithium-ion batteries due to its extremely high theoretical specific capacity (4200 mAh/g, approximately 10 times that of traditional graphite anodes). The CVD silicon anode material preparation process can significantly optimize the structural properties of silicon materials, thereby overcoming the shortcomings of silicon anodes in cycle life and charge-discharge stability. Currently, silicon-carbon anodes are priced at \$60,000 per ton, and the long-term cost is expected to drop to below \$30,000 per ton, driving a surge in industry demand. Global sales in 2024 are estimated at approximately 1,500 tons.

CVD silicon anode materials, a key branch of silicon-based anode materials, have demonstrated tremendous potential in recent years in power batteries and energy storage. Chemical vapor deposition (CVD) technology enables the controlled growth of silicon nanostructures, significantly improving cycle life and charge-discharge stability. The CVD silicon-carbon route boasts excellent performance, a maturing process, and significant development potential. Its core principle is to store silicon within a porous carbon framework and to buffer the volume expansion of silicon during lithium insertion through the interstices within the porous carbon. With the rapid growth of the electric vehicle market and the increasing demand for high-energy-density batteries, CVD silicon anode materials are expected to accelerate their industrialization. In the coming

years, research and development will focus on increasing silicon content, optimizing the carbon coating structure, and improving initial coulombic efficiency and cycle life. Furthermore, CVD materials offer significant synergy with solid-state batteries, with their dense carbon layer helping to suppress silicon volume expansion and extend battery life.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of CVD Silicon Anode Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Biomass Carbon Materials

Polymer Resin Materials

Others

Segmentation by Equipment:

Deposition Equipment: Rotary Kiln

Deposition Equipment: Fluidized Bed

Segmentation by Shape:

Powder Type

Film Type

Other

Segmentation by Application:

Power Batteries

Consumer Batteries

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

Sila Nanotechnologies

Amprius

Lanxi Zhide

Nexeon

Yuling New Energy

Tianmulake Excellent Anode Materials (IOPSILION)

BTR New Material

Beijing iAmetal

Novusilicon

GUIBAO

Shanghai PTL

Shanshan

Shida Shinghwa

Zhejiang Saile New Energy

Sichuan Jili New Energy Technology

SICHUAN WUKE JINSI NEW MATERIAL TECHNOLOGY

Key Questions Addressed in this Report

What is the 10-year outlook for the global CVD Silicon Anode Material market?

What factors are driving CVD Silicon Anode Material market growth, globally and by region?

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

How do CVD Silicon Anode Material market opportunities vary by end market size?

How does CVD Silicon Anode Material break out by Type, by Application?

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