

Global Porous Carbon for CVD Silicon-carbon Market Growth 2026-2032

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Abstracts

The global Porous Carbon for CVD Silicon-carbon market size is predicted to grow from US\$ 51.68 million in 2025 to US\$ 1238 million in 2032; it is expected to grow at a CAGR of 41.1% from 2026 to 2032.

Silicon-carbon anodes offer advantages such as high initial efficiency and low cost. However, their significant expansion force has historically impacted cycle life. Improvements have primarily focused on reducing silicon size to the nanometer scale to minimize the effects of material expansion. Currently, silicon-carbon anode synthesis mainly follows three routes: mechanical ball milling, high-temperature pyrolysis, and chemical vapor deposition (CVD).

Mechanical ball milling involves grinding a suitable silicon and carbon source mixture using a ball mill, followed by sintering. This method grinds silicon to the nanometer scale, achieving a uniform silicon-carbon mixture and mitigating cycle life issues to some extent. Mechanical ball milling significantly improves the electrochemical performance of the material, is simple, and allows for large-scale production. However, the agglomeration of silicon particles during milling leads to poor cycle performance. Silicon-carbon anodes produced by mechanical ball milling are also called silicon-oxygen anodes.

CVD utilizes a porous carbon framework to store silicon and buffers the volume expansion during lithium intercalation through the internal pores of the porous carbon. This results in low expansion rates, excellent cycle life, and the low density and light weight of the carbon framework itself, leading to high energy density. CVD-based silicon-carbon anodes paired with porous carbon substrates effectively improve expansion rate and cycle life issues. Their leading performance and significant development potential

make them a mainstream next-generation silicon-carbon process.

Porous carbon forms the carbon framework of silicon-carbon anodes, possessing advantages such as high specific surface area, controllable microstructure, abundant pore structure, good conductivity, and high stability. The high specific surface area allows porous carbon to bind more lithium ions, providing high capacity for lithium-ion batteries. The multidimensional and complex pore structure provides effective and rapid diffusion channels for lithium ions, resulting in excellent electrochemical performance.

The mainstream raw materials for porous carbon for CVD silicon-carbon include biomass, resin-based, and coke-based materials. Among these three routes, biomass raw materials include coconut shells, bamboo, rice husks, wood chips, and starch, which are renewable. Resin raw materials are mainly phenolic resins, with mature production processes, controllable chemical structures, and better pore uniformity and batch consistency, but the raw material cost is higher. Due to the relatively cheaper raw material price of biomass, the cost per ton for resin-based porous carbon is significantly higher than that for bio-based porous carbon. Petroleum coke-based materials fall between these two categories, combining cost and strength.

The core of porous carbon production technology is the pore-forming process, primarily achieved through steam or alkali activation. This involves mixing an activator with a carbon precursor under high-temperature, inert gas protection to initiate a pore-forming reaction. Generally, this requires first carbonizing the carbon precursor at high temperatures (typically above 800°C), followed by the use of steam or alkali as an activator to react with the carbon precursor and achieve the pore-forming reaction.

In 2025, the global production of porous carbon for CVD silicon-carbon was approximately 1637 tons, with a unit price of approximately US\$32,270 per ton and a gross profit margin of approximately 24.57%.

The major global producers of silicon-carbon porous carbon include Kuraray, Shengquan Group, Fujian Yuanli, Henan Dachao Carbon Energy Technology Co., Ltd., Sinosteel Maanshan General Institute of Mining Research, Aemcn, KBC Corporation, Ltd., Shanghai Tanyuan New Materials Technology Co., Ltd., Zhejiang Apex, Fujian Xinsen Carbon Co., Ltd., Bengbu Gifuli New Materials, Shenzhen Solide New Materials Technology Co., Ltd., Jiangsu PURESTAR Environmental Protection Technology Co., Ltd., etc.

In 2025, the first-tier manufacturers (Shengquan Group, Fujian Yuanli, Henan Dachao

Carbon Energy Technology Co., Ltd., SinoSteel Maanshan, Aemcn, Shenzhen Solide) account for approximately 92.15% of total sales volume. With capacity expansion and new entrants entering the market, competition in the industry is expected to intensify in the coming years.

Market Characteristics

Explosive Market Growth: Rapid development of the new energy industry and growing demand for high-energy-density batteries are driving the rapid expansion of the global silicon-carbon porous carbon market. In 2025, China accounted for approximately 95% of global production, and this high growth is expected to continue over the next three to five years.

Significant Technology Differences: The three major production routes—biomass, resin-based, and coal-based (coke)—coexist. The resin-based route offers high specific surface area, stable performance, and uniform quality; the coal-based route has clear cost advantages and strong scale-up potential; the biomass route is flexible, low-cost, and responsive. In the future, coal-based and high-pore-volume routes are expected to see the fastest growth.

Clear Competitive Landscape: The market is dominated by multiple medium-to-large enterprises, with moderate concentration and intense competition. Domestic leading companies have established technological barriers through in-house R&D and joint development, but the market is not monopolized by a few firms, and capacity differences among companies are limited.

Differentiated Application Scenarios: Power batteries remain the core application, accounting for over 97% of usage. While consumer electronics and other applications currently represent a smaller share, they exhibit significant growth (CAGR 40%–50%), with potential in high-end and wearable device markets.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Porous Carbon for CVD Silicon-carbon 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 Porous Carbon for CVD Silicon-carbon.

This report presents a comprehensive overview, market shares, and growth opportunities of Porous Carbon for CVD Silicon-carbon market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Biomass Porous Carbon

Resin Porous Carbon

Pitch/Coal Porous Carbon

Segmentation by Activation Process:

Steam Activation

Alkali Activation

Segmentation by Pore Volume:

Pore Volume ? 1.0 cm³/g

Pore Volume > 1.0 cm³/g

Segmentation by Specific Surface Area:

Specific Surface Area ? 2000 m²/g

Specific Surface Area

Segmentation by Application:

Power Batteries

Consumer Electronics

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.

Kuraray

Haycarb

Momentum Materials

Shengquan Group

Fujian Yuanli

Henan Dachao Carbon Energy Technology Co., Ltd.

Sinosteel Maanshan General Institute of Mining Research

Aemcn

KBC Corporation, Ltd.

Shanghai Tanyuan New Materials Technology Co., Ltd.

Zhejiang Apex

Fujian Xinsen Carbon Co., Ltd.

Bengbu Gifuli New Materials

Shenzhen Solide New Materials Technology Co., Ltd.

Jiangsu PURESTAR Environmental Protection Technology Co., Ltd.

Guangdong Dowstone Technology Co., Ltd.

Shanghai Putailai New Energy Technology Co., Ltd.

Do-Fluoride New Materials Co., Ltd.

Xuancheng Silike New Materials Co., Ltd.

Jiangxi Binbin New Material Technology Co., Ltd.

Jiangxi Kete Carbon Based New Material Co., Ltd.

Hunan Zhongke Shinzoom Co., Ltd.

Shanghai XFH Technology Co., Ltd.

BTR New Material Group Co., Ltd.

Beihai Sence Carbon Materials Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Porous Carbon for CVD Silicon-carbon market?

What factors are driving Porous Carbon for CVD Silicon-carbon market growth, globally and by region?

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

How do Porous Carbon for CVD Silicon-carbon market opportunities vary by end market size?

How does Porous Carbon for CVD Silicon-carbon break out by Type, by Application?

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