

# Global Porous Carbon for CVD Silicon-carbon 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 Porous Carbon for CVD Silicon-carbon market size was valued at US\$ 54.36 million in 2025 and is forecast to a readjusted size of US\$ 1174 million by 2032 with a CAGR of 38.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Porous Carbon for CVD Silicon-carbon 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 Porous Carbon for CVD Silicon-carbon market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Porous Carbon for CVD Silicon-carbon market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Porous Carbon for CVD Silicon-carbon market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Porous Carbon for CVD Silicon-carbon market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Porous Carbon for CVD Silicon-carbon
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Porous Carbon for CVD Silicon-carbon 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 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., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Porous Carbon for CVD Silicon-carbon 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

Biomass Porous Carbon

Resin Porous Carbon

Pitch/Coal Porous Carbon

### Market segment by Activation Process

Steam Activation

Alkali Activation

### Market segment by Pore Volume

Pore Volume ? 1.0 cm<sup>3</sup>/g

Pore Volume > 1.0 cm<sup>3</sup>/g

### Market segment by Specific Surface Area

Specific Surface Area ? 2000 m<sup>2</sup>/g

Specific Surface Area

## Market segment by Application

Power Batteries

Consumer Electronics

Others

## Major players covered

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.

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 Porous Carbon for CVD Silicon-carbon product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Porous Carbon for CVD Silicon-carbon 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 to 2026. and Porous Carbon for CVD Silicon-carbon 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 Porous Carbon for CVD Silicon-carbon.

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