

# Global Porous Carbon for Silicon-Carbon Market Growth 2026-2032

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## Abstracts

The global Porous Carbon for 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.

Porous Carbon for Silicon-Carbon serves as the carbon scaffold for silicon-carbon (Si-C) anodes, featuring high specific surface area, controllable microstructure, abundant pore structure, good electrical conductivity, and high stability. Its high specific surface area allows Porous Carbon for Silicon-Carbon to accommodate more lithium ions, providing high capacity for lithium-ion batteries. The multidimensional and complex pore network offers efficient diffusion pathways for lithium ions, resulting in excellent electrochemical performance.

The main raw materials for Porous Carbon for Silicon-Carbon include biomass, resin-based, and coke-based (petroleum coke) materials. Among these three routes:

Biomass-based raw materials include coconut shells, bamboo, rice husks, wood chips, starch, etc., which are renewable and low-cost.

Resin-based raw materials are primarily phenolic resins; their production process is mature, and the chemical structure is controllable, yielding more uniform pores and better batch-to-batch consistency. However, resin-based Porous Carbon for Silicon-Carbon has a significantly higher per-ton cost compared to biomass-based.

Coke-based (petroleum coke) materials fall in between, offering a balance of cost and structural strength.

The core production process for Porous Carbon for Silicon-Carbon is pore-forming activation, primarily through steam or alkali activation. Under high-temperature inert gas protection, the activator is mixed with the carbon precursor to trigger the pore-forming reaction. Typically, the carbon precursor is first carbonized at high temperature (usually above 800°C), followed by reaction with steam or alkali to generate the porous structure.

In 2025, the global production of Porous Carbon for Silicon-Carbon was approximately 1,637 tons, with an average price of \$32,270 per ton and a gross 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) ' newest research report, the "Porous Carbon for Silicon-Carbon Industry Forecast" looks at past sales and reviews total world Porous Carbon for Silicon-Carbon sales in 2025, providing a comprehensive analysis by region and market sector of projected Porous Carbon for Silicon-Carbon sales for 2026 through 2032. With Porous Carbon for 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 Silicon-Carbon industry.

This Insight Report provides a comprehensive analysis of the global Porous Carbon for 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 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 Silicon-Carbon market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Porous Carbon for 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  $\leq 1.0 \text{ cm}^3/\text{g}$

Pore Volume  $> 1.0 \text{ cm}^3/\text{g}$

#### Segmentation by Specific Surface Area:

Specific Surface Area  $\leq 2000 \text{ m}^2/\text{g}$

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

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.

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 Silicon-Carbon market?

What factors are driving Porous Carbon for 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 Silicon-Carbon market opportunities vary by end market size?

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

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