

# Global Porous Carbon for Silicon-Carbon Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Porous Carbon for Silicon-Carbon market size is expected to reach \$ 1174 million by 2032, rising at a market growth of 38.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Porous Carbon for Silicon-Carbon production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Porous Carbon for Silicon-Carbon 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 Porous Carbon for Silicon-Carbon that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Porous Carbon for Silicon-Carbon total production and demand, 2021-2032, (Tons)

Global Porous Carbon for Silicon-Carbon total production value, 2021-2032, (USD Million)

Global Porous Carbon for Silicon-Carbon production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Porous Carbon for Silicon-Carbon consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Porous Carbon for Silicon-Carbon domestic production, consumption, key domestic manufacturers and share

Global Porous Carbon for Silicon-Carbon production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Porous Carbon for Silicon-Carbon production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Porous Carbon for Silicon-Carbon production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Porous Carbon for Silicon-Carbon 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 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, 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 Porous Carbon for Silicon-Carbon market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Porous Carbon for Silicon-Carbon Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Porous Carbon for Silicon-Carbon Market, Segmentation by Type:

Biomass Porous Carbon

Resin Porous Carbon

Pitch/Coal Porous Carbon

#### Global Porous Carbon for Silicon-Carbon Market, Segmentation by Activation Process:

Steam Activation

Alkali Activation

#### Global Porous Carbon for Silicon-Carbon Market, Segmentation by Pore Volume:

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

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

#### Global Porous Carbon for Silicon-Carbon Market, Segmentation by Specific Surface Area:

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

Specific Surface Area

#### Global Porous Carbon for Silicon-Carbon Market, Segmentation by Application:

Power Batteries

Consumer Electronics

Others

## Companies Profiled:

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.

Jiangxi Kete Carbon Based New Material Co., Ltd.

Key Questions Answered:

1. How big is the global Porous Carbon for Silicon-Carbon market?
2. What is the demand of the global Porous Carbon for Silicon-Carbon market?
3. What is the year over year growth of the global Porous Carbon for Silicon-Carbon market?
4. What is the production and production value of the global Porous Carbon for Silicon-Carbon market?
5. Who are the key producers in the global Porous Carbon for Silicon-Carbon market?
6. What are the growth factors driving the market demand?

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