

Global Porous Hard Carbon Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Porous Hard Carbon market size is expected to reach \$ 10508 million by 2032, rising at a market growth of 34.2% CAGR during the forecast period (2026-2032).

Porous Hard Carbon is an advanced anode material designed for lithium-ion and sodium-ion batteries, characterized by a highly developed porous structure formed through controlled carbonization and microstructure engineering of carbon precursors. The interconnected pore network enhances ion storage and transport efficiency, enabling high capacity and stable cycling performance in energy storage systems. Its advantages include high specific capacity, strong structural stability, and long battery service life. The capacity utilization rate in 2025 reached 78%, and the industry's average gross margin was approximately 35%. Production in 2025 totaled 45,544 tons at an average price of 30,300 USD per ton. The upstream segment mainly consists of coconut shells and pitch, with representative suppliers including Olam Group, Cargill, Baowu Carbon Materials, and Sinopec. The midstream focuses on carbonization, pore structure regulation, particle size control, and purity optimization to ensure consistent electrochemical performance. Downstream applications are primarily in lithium-ion batteries and sodium-ion batteries, with key customers including Panasonic, Samsung SDI, CATL, BYD, and Farasis Energy.

In sodium-ion and lithium-ion battery applications, Porous Hard Carbon will increasingly be adopted in energy storage systems, electric two-wheelers, and selected power battery platforms that require improved low-temperature performance and stable high-rate charging capability. As battery manufacturers pursue longer cycle life and better energy efficiency, materials with optimized pore structures and stable electrochemical behavior are expected to gain broader application opportunities. Future development will be closely linked to sodium-ion battery commercialization, large-scale energy

storage deployment, and the growing demand for cost-effective high-performance anode materials.

This report studies the global Porous Hard Carbon production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Porous Hard 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 (Japan), JFE Chemical (Japan), Kureha (Japan), Sumitomo (Japan), Stora Enso (Finland), Shanshan (China), BTR (China), Putailai (China), Best Graphite (China), HiNa Battery Technology (China), 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 Hard 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 Hard Carbon Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Porous Hard Carbon Market, Segmentation by Type:

Bio-based

Petroleum-based

Resin-based

Global Porous Hard Carbon Market, Segmentation by Specific Capacity:

Specific Capacity

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