

# Global Petroleum-based Hard Carbon Anode Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Petroleum-based Hard Carbon Anode market size is expected to reach \$ 2055 million by 2032, rising at a market growth of 24.9% CAGR during the forecast period (2026-2032).

Petroleum-based Hard Carbon Anode is an advanced anode material derived from petroleum-based carbon precursors through controlled carbonization and structural engineering, forming a disordered carbon network with abundant microporous structures that enable efficient lithium and sodium ion storage while maintaining strong structural stability and long cycle performance. It is widely used in high-performance lithium-ion and sodium-ion battery systems requiring high capacity, reliability, and durability. Its advantages include high specific capacity, excellent structural integrity, and extended service life. In 2025, production totaled 13,853 tons and the average price was USD 30,318 per ton. The industry's capacity utilization rate reached 78% and the average gross margin was approximately 35%. Upstream mainly consists of petroleum-based carbon precursors, with representative suppliers including Olam Group, Cargill, Baowu Carbon Materials, and Sinopec ensuring stable raw material supply. The midstream focuses on carbonization process control, pore structure engineering, particle size optimization, and impurity removal processes, which together determine electrochemical performance consistency and long-term cycling stability. Downstream applications are primarily in lithium-ion batteries and sodium-ion batteries, with key customers including Panasonic, Samsung SDI, CATL, BYD, and Farasis Energy.

Petroleum-based hard carbon anodes are emerging as a core pillar of next-generation energy storage, leveraging exceptional microstructural consistency and industrial scalability. In the sodium-ion sector, petroleum pitch-based hard carbon sets a reliable performance benchmark for large-scale storage through precise pore-channel

engineering. Meanwhile, powerfully driven by surging lithium-ion demand, high-end petroleum coke-based hard carbon serves as a crucial composite substrate for silicon-carbon anodes, effectively mitigating volume expansion and boosting fast-charging capabilities. With the dual boom in new energy vehicles and energy storage, petroleum-based hard carbon is comprehensively evolving from a traditional refining byproduct into a dual strategic cornerstone underpinning both the high-end evolution of lithium-ion and the mass adoption of sodium-ion batteries.

This report studies the global Petroleum-based Hard Carbon Anode production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Petroleum-based Hard Carbon Anode total production and demand, 2021-2032, (Tons)

Global Petroleum-based Hard Carbon Anode total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Petroleum-based Hard Carbon Anode domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Petroleum-based Hard Carbon Anode 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 Petroleum-based Hard Carbon Anode 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 Petroleum-based Hard Carbon Anode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Petroleum-based Hard Carbon Anode Market, Segmentation by Type:

1-5?m

5-10?m

Others

Global Petroleum-based Hard Carbon Anode Market, Segmentation by Specific Capacity:

Specific Capacity

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