

Global Pitch-Based Hard Carbon Anode Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G1948CA4D757EN.html>

Date: June 2026

Pages: 144

Price: US\$ 4,480.00 (Single User License)

ID: G1948CA4D757EN

Abstracts

The global Pitch-Based Hard Carbon Anode market size is expected to reach \$ 4278 million by 2032, rising at a market growth of 25.9% CAGR during the forecast period (2026-2032).

Pitch-Based Hard Carbon Anode is an advanced anode material produced from pitch precursors through controlled carbonization and structural tailoring, forming a disordered carbon network with abundant microporous features that enable efficient lithium and sodium ion storage while maintaining high structural stability and long cycle life. It is widely applied in high-performance lithium-ion and sodium-ion battery systems requiring reliable capacity and durability. Its advantages include high specific capacity, strong structural integrity, and extended service life. In 2025, production totaled 28,040 tons and the average price was USD 29,600 per ton. The industry's capacity utilization rate reached 78% and the average gross margin was approximately 35%. Upstream mainly consists of pitch-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 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.

Hard carbon anode materials are steadily establishing their core status in next-generation battery technologies. In the realm of sodium-ion batteries, pitch-based hard carbon is becoming the industrial benchmark for large-scale energy storage, thanks to its exceptional batch consistency and scalability. Meanwhile, in the lithium-ion sector,

hard carbon serves as a crucial additive in silicon-based composites, effectively buffering volume expansion and enhancing fast-charging capabilities. It has become a mainstream technical route for high-end power batteries to break through energy density bottlenecks. With continuous breakthroughs in modification processes like pre-oxidation and heteroatom doping, hard carbon anodes are comprehensively evolving from a single cost-alternative solution into a dual strategic pillar supporting both the large-scale adoption of sodium-ion batteries and the high-end evolution of lithium-ion batteries.

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

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

Highlights and key features of the study

Global Pitch-Based Hard Carbon Anode total production and demand, 2021-2032, (Tons)

Global Pitch-Based Hard Carbon Anode total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pitch-Based Hard Carbon Anode Market, Segmentation by Type:

1-5?m

5-10?m

Others

Global Pitch-Based Hard Carbon Anode Market, Segmentation by Specific Capacity:

Specific Capacity

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