

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

<https://marketpublishers.com/r/GC355306D53FEN.html>

Date: April 2026

Pages: 138

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

ID: GC355306D53FEN

Abstracts

The global Anode Hard Carbon Material market size is expected to reach \$ 182 million by 2032, rising at a market growth of 35.3% CAGR during the forecast period (2026-2032).

Hard carbon is a solid form of carbon that cannot be converted to graphite by heat-treatment, even at temperatures as high as 3000°C. It is also known as char, or non-graphitizing carbon. More colloquially it can be described as charcoal. Hard carbon is produced by heating carbonaceous precursors to approximately 1000°C in the absence of oxygen. Among the precursors for hard carbon are polyvinylidene chloride (PVDC), lignin and sucrose. Other precursors, such as polyvinyl chloride (PVC) and petroleum coke, produce soft carbon, or graphitizing carbon. Soft carbon can be readily converted to graphite by heating to 3000°C.

Hard carbon is currently the mainstream anode material route for sodium batteries. The commonly used hard carbon precursors are mainly bio-based, such as moso bamboo, coconut shell, starch, walnut shell, etc. At the same time, chemical raw materials such as anthracite, pitch, and phenolic resin can also be used. Synthetic polymer precursors such as phenolic resins are also included.

Global key players of Anode Hard Carbon Material include Best Graphite, Kuraray, HiNa Battery Technology, etc. The top three players hold a share about 77%. China is the largest market, and has a share about 74%. In terms of product type, Bio-based is the largest segment, accounting for a share of 73%. In terms of application, Na-ion Battery is the largest field with a share about 75 percent.

This report studies the global Anode Hard Carbon Material production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Anode Hard Carbon Material 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, JFE Chemical, Kureha, Sumitomo, Stora Enso, Indigenous Energy, Sparc Technologies, Shengquan Group, HiNa Battery Technology, Best Carbon, 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 Anode Hard Carbon Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) 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 Anode Hard Carbon Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Anode Hard Carbon Material Market, Segmentation by Type:

Bio-based

Petroleum-based

Polymer Resin

Global Anode Hard Carbon Material Market, Segmentation by Industry:

Energy Storage

Power Battery and Others

Global Anode Hard Carbon Material Market, Segmentation by Capacity:

High Capacity

Low Capacity

Global Anode Hard Carbon Material Market, Segmentation by Application:

Li-ion Battery

Na-ion Battery

Companies Profiled:

Kuraray

JFE Chemical

Kureha

Sumitomo

Stora Enso

Indigenous Energy

Sparc Technologies

Shengquan Group

HiNa Battery Technology

Best Carbon

BTR

Jiangxi Litan

Fujian Yuanli

Shanshan

Xiangfenghua

Putailai

Jiangxi Zeto

Ipsilon

Kaijin New Energy

Fujian Xinsen Carbon

Key Questions Answered:

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

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