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Global Anthracite-Based Hard Carbon Anode Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Anthracite-Based Hard Carbon Anode market size was valued at US$ 105 million in 2025 and is forecast to a readjusted size of US$ 639 million by 2032 with a CAGR of 29.3% during review period.

Anthracite-Based Hard Carbon Anode is an advanced anode material produced from anthracite coal through controlled carbonization and microstructure engineering, forming a highly disordered carbon framework with abundant micropores that enables efficient lithium and sodium ion storage while maintaining strong structural stability and long cycle performance. It is widely applied in high-performance lithium-ion and sodium-ion battery systems requiring high energy storage capacity and durability. Its advantages include high specific capacity, excellent structural robustness, and extended service life. In 2025, production totaled 3,400 tons and the average price was USD 30,000 per ton. The industry’s capacity utilization rate reached 78% and the average gross margin was approximately 35%. Upstream mainly consists of anthracite coal and related 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 optimization, particle size distribution regulation, and impurity removal processes, which together determine electrochemical performance consistency and cycling durability. Downstream applications are primarily in lithium-ion batteries and sodium-ion batteries, with key customers including Panasonic, Samsung SDI, CATL, BYD, and Farasis Energy.

Anthracite-based hard carbon anodes are emerging as a high-performance contender in the sodium-ion battery sector. Leveraging anthracite's inherent high fixed carbon content, structural density, and abundant reserves, this route delivers superior

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electrochemical stability and energy density. While facing challenges in deep ash removal and closed-pore regulation, breakthroughs in purification and microstructure engineering are rapidly overcoming these barriers. As sodium-ion batteries expand into grid storage and electric vehicles, anthracite-based hard carbon is evolving from a niche precursor into a strategic pillar for high-performance, cost-effective battery manufacturing.

This report is a detailed and comprehensive analysis for global Anthracite-Based Hard Carbon Anode market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Anthracite-Based Hard Carbon Anode market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Anthracite-Based Hard Carbon Anode market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Anthracite-Based Hard Carbon Anode market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Anthracite-Based Hard Carbon Anode market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Anthracite-Based Hard Carbon Anode

To forecast future growth in each product and end-use market

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To assess competitive factors affecting the marketplace

This report profiles key players in the global Anthracite-Based Hard Carbon Anode market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Anthracite-Based Hard Carbon Anode market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

1-5?m

5-10?m

Others

Market segment by Specific Capacity

Specific Capacity

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