

Global Anthracite-Based Hard Carbon Anode Market Growth 2026-2032

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Abstracts

The global Anthracite-Based Hard Carbon Anode market size is predicted to grow from US\$ 100 million in 2025 to US\$ 661 million in 2032; it is expected to grow at a CAGR of 31.1% from 2026 to 2032.

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 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.

LP Information, Inc. (LPI) ' newest research report, the "Anthracite-Based Hard Carbon Anode Industry Forecast" looks at past sales and reviews total world Anthracite-Based Hard Carbon Anode sales in 2025, providing a comprehensive analysis by region and market sector of projected Anthracite-Based Hard Carbon Anode sales for 2026 through 2032. With Anthracite-Based Hard Carbon Anode sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Anthracite-Based Hard Carbon Anode industry.

This Insight Report provides a comprehensive analysis of the global Anthracite-Based Hard Carbon Anode landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Anthracite-Based Hard Carbon Anode portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Anthracite-Based Hard Carbon Anode market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Anthracite-Based Hard Carbon Anode and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Anthracite-Based Hard Carbon Anode.

This report presents a comprehensive overview, market shares, and growth opportunities of Anthracite-Based Hard Carbon Anode market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

1-5?m

5-10?m

Others

Segmentation by Specific Capacity:

Specific Capacity

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