

Global Coal-tar-based Hard Carbon Anode Market Growth 2026-2032

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Abstracts

The global Coal-tar-based Hard Carbon Anode market size is predicted to grow from US\$ 401 million in 2025 to US\$ 2234 million in 2032; it is expected to grow at a CAGR of 28.0% from 2026 to 2032.

Coal-tar-based Hard Carbon Anode is an advanced anode material derived from coal tar pitch through controlled carbonization and microstructure engineering, forming a highly disordered carbon framework with abundant micropores that enables efficient lithium and sodium storage while maintaining strong structural integrity and long cycle stability. It is widely used in high-performance lithium-ion and sodium-ion battery systems requiring high capacity and durability. Its advantages include high specific capacity, robust structural stability, and extended service life. In 2025, production totaled 14,187 tons and the average price was USD 28,900 per ton. The industry's capacity utilization rate reached 78% and the average gross margin was approximately 35%. Upstream mainly consists of coal tar pitch 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 process control, pore structure tuning, particle size distribution optimization, and impurity removal, 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.

Coal-tar-based Hard Carbon Anodes are rapidly emerging as a cost-effective alternative in the sodium-ion battery sector. Leveraging the abundant and low-cost coal tar byproduct, this route offers a pragmatic solution to the raw material constraints of traditional biomass-based hard carbon. While historically challenged by lower

carbonization yields, recent breakthroughs in molecular cross-linking and precursor modification have significantly improved its electrochemical performance and production efficiency. As the demand for large-scale energy storage and low-speed electric vehicles grows, coal-tar-based hard carbon is transitioning from a supplementary option to a strategic pillar for sustainable and economically viable sodium-ion battery supply chains.

LP Information, Inc. (LPI) ' newest research report, the "Coal-tar-based Hard Carbon Anode Industry Forecast" looks at past sales and reviews total world Coal-tar-based Hard Carbon Anode sales in 2025, providing a comprehensive analysis by region and market sector of projected Coal-tar-based Hard Carbon Anode sales for 2026 through 2032. With Coal-tar-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 Coal-tar-based Hard Carbon Anode industry.

This Insight Report provides a comprehensive analysis of the global Coal-tar-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 Coal-tar-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 Coal-tar-based Hard Carbon Anode market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Coal-tar-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 Coal-tar-based Hard Carbon Anode.

This report presents a comprehensive overview, market shares, and growth opportunities of Coal-tar-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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Coal-tar-based Hard Carbon Anode Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Coal-tar-based Hard Carbon Anode by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Coal-tar-based Hard Carbon Anode by Country/Region, 2021, 2025 & 2032
- 2.2 Coal-tar-based Hard Carbon Anode Segment by Type
 - 2.2.1 1-5?m
 - 2.2.2 5-10?m
 - 2.2.3 Others
 - 2.2.4 Coal-tar-based Hard Carbon Anode Sales by Type
 - 2.2.4.1 Global Coal-tar-based Hard Carbon Anode Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Coal-tar-based Hard Carbon Anode Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Coal-tar-based Hard Carbon Anode Sale Price by Type (2021-2026)
- 2.3 Coal-tar-based Hard Carbon Anode Segment by Specific Capacity
 - 2.3.1 Specific Capacity

List Of Tables

LIST OF TABLES

Table 1. Coal-tar-based Hard Carbon Anode Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Coal-tar-based Hard Carbon Anode Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 1-5?m

Table 4. Major Players of 5-10?m

Table 5. Major Players of Others

Table 6. Global Coal-tar-based Hard Carbon Anode Sales by Type (2021-2026) & (Tons)

Table 7. Global Coal-tar-based Hard Carbon Anode Sales Market Share by Type (2021-2026)

Table 8. Global Coal-tar-based Hard Carbon Anode Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Coal-tar-based Hard Carbon Anode Revenue Market Share by Type (2021-2026)

Table 10. Global Coal-tar-based Hard Carbon Anode Sale Price by Type (2021-2026) & (US\$/Ton)

Table 11. Major Players of Specific Capacity

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Coal-tar-based Hard Carbon Anode
- Figure 2. Coal-tar-based Hard Carbon Anode Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Coal-tar-based Hard Carbon Anode Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Coal-tar-based Hard Carbon Anode Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Coal-tar-based Hard Carbon Anode Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Coal-tar-based Hard Carbon Anode Sales Market Share by Country/Region (2025)
- Figure 10. Coal-tar-based Hard Carbon Anode Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 1-5?m
- Figure 12. Product Picture of 5-10?m
- Figure 13. Product Picture of Others
- Figure 14. Global Coal-tar-based Hard Carbon Anode Sales Market Share by Type in 2026
- Figure 15. Global Coal-tar-based Hard Carbon Anode Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Specific Capacity

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