

Global Pitch-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 Pitch-Based Hard Carbon Anode market size was valued at US\$ 854 million in 2025 and is forecast to a readjusted size of US\$ 4278 million by 2032 with a CAGR of 25.9% during review period.

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 is a detailed and comprehensive analysis for global Pitch-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 Pitch-Based Hard Carbon Anode market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Pitch-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 Pitch-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 Pitch-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 Pitch-Based Hard Carbon Anode

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Pitch-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

Pitch-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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Pitch-Based Hard Carbon Anode Consumption Value by Type:
2021 Versus 2025 Versus 2032

1.3.2 1-5?m

1.3.3 5-10?m

1.3.4 Others

1.4 Market Analysis by Specific Capacity

1.4.1 Overview: Global Pitch-Based Hard Carbon Anode Consumption Value by
Specific Capacity: 2021 Versus 2025 Versus 2032

1.4.2 Specific Capacity

List Of Tables

LIST OF TABLES

Table 1. Global Pitch-Based Hard Carbon Anode Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Pitch-Based Hard Carbon Anode Consumption Value by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Table 3. Global Pitch-Based Hard Carbon Anode Consumption Value by Initial Coulombic Efficiency, (USD Million), 2021 & 2025 & 2032

Table 4. Global Pitch-Based Hard Carbon Anode Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Kuraray (Japan) Basic Information, Manufacturing Base and Competitors

Table 6. Kuraray (Japan) Major Business

Table 7. Kuraray (Japan) Pitch-Based Hard Carbon Anode Product and Services

Table 8. Kuraray (Japan) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Kuraray (Japan) Recent Developments/Updates

Table 10. JFE Chemical (Japan) Basic Information, Manufacturing Base and Competitors

Table 11. JFE Chemical (Japan) Major Business

Table 12. JFE Chemical (Japan) Pitch-Based Hard Carbon Anode Product and Services

Table 13. JFE Chemical (Japan) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. JFE Chemical (Japan) Recent Developments/Updates

Table 15. Kureha (Japan) Basic Information, Manufacturing Base and Competitors

Table 16. Kureha (Japan) Major Business

Table 17. Kureha (Japan) Pitch-Based Hard Carbon Anode Product and Services

Table 18. Kureha (Japan) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Kureha (Japan) Recent Developments/Updates

Table 20. Sumitomo (Japan) Basic Information, Manufacturing Base and Competitors

Table 21. Sumitomo (Japan) Major Business

Table 22. Sumitomo (Japan) Pitch-Based Hard Carbon Anode Product and Services

Table 23. Sumitomo (Japan) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 24. Sumitomo (Japan) Recent Developments/Updates

Table 25. Stora Enso (Finland) Basic Information, Manufacturing Base and Competitors

Table 26. Stora Enso (Finland) Major Business

Table 27. Stora Enso (Finland) Pitch-Based Hard Carbon Anode Product and Services

Table 28. Stora Enso (Finland) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Stora Enso (Finland) Recent Developments/Updates

Table 30. Shanshan (China) Basic Information, Manufacturing Base and Competitors

Table 31. Shanshan (China) Major Business

Table 32. Shanshan (China) Pitch-Based Hard Carbon Anode Product and Services

Table 33. Shanshan (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Shanshan (China) Recent Developments/Updates

Table 35. BTR (China) Basic Information, Manufacturing Base and Competitors

Table 36. BTR (China) Major Business

Table 37. BTR (China) Pitch-Based Hard Carbon Anode Product and Services

Table 38. BTR (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. BTR (China) Recent Developments/Updates

Table 40. Putailai (China) Basic Information, Manufacturing Base and Competitors

Table 41. Putailai (China) Major Business

Table 42. Putailai (China) Pitch-Based Hard Carbon Anode Product and Services

Table 43. Putailai (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Putailai (China) Recent Developments/Updates

Table 45. Best Graphite (China) Basic Information, Manufacturing Base and Competitors

Table 46. Best Graphite (China) Major Business

Table 47. Best Graphite (China) Pitch-Based Hard Carbon Anode Product and Services

Table 48. Best Graphite (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Best Graphite (China) Recent Developments/Updates

Table 50. HiNa Battery Technology (China) Basic Information, Manufacturing Base and

Competitors

Table 51. HiNa Battery Technology (China) Major Business

Table 52. HiNa Battery Technology (China) Pitch-Based Hard Carbon Anode Product and Services

Table 53. HiNa Battery Technology (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. HiNa Battery Technology (China) Recent Developments/Updates

Table 55. Xiangfenghua (China) Basic Information, Manufacturing Base and Competitors

Table 56. Xiangfenghua (China) Major Business

Table 57. Xiangfenghua (China) Pitch-Based Hard Carbon Anode Product and Services

Table 58. Xiangfenghua (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Xiangfenghua (China) Recent Developments/Updates

Table 60. Jiangxi Zeto (China) Basic Information, Manufacturing Base and Competitors

Table 61. Jiangxi Zeto (China) Major Business

Table 62. Jiangxi Zeto (China) Pitch-Based Hard Carbon Anode Product and Services

Table 63. Jiangxi Zeto (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Jiangxi Zeto (China) Recent Developments/Updates

Table 65. Wuhan Tianna Technology (China) Basic Information, Manufacturing Base and Competitors

Table 66. Wuhan Tianna Technology (China) Major Business

Table 67. Wuhan Tianna Technology (China) Pitch-Based Hard Carbon Anode Product and Services

Table 68. Wuhan Tianna Technology (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Wuhan Tianna Technology (China) Recent Developments/Updates

Table 70. Fujian Yuanli Active Carbon (China) Basic Information, Manufacturing Base and Competitors

Table 71. Fujian Yuanli Active Carbon (China) Major Business

Table 72. Fujian Yuanli Active Carbon (China) Pitch-Based Hard Carbon Anode Product and Services

Table 73. Fujian Yuanli Active Carbon (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and

Market Share (2021-2026)

Table 74. Fujian Yuanli Active Carbon (China) Recent Developments/Updates

Table 75. Shengquan Group (China) Basic Information, Manufacturing Base and Competitors

Table 76. Shengquan Group (China) Major Business

Table 77. Shengquan Group (China) Pitch-Based Hard Carbon Anode Product and Services

Table 78. Shengquan Group (China) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Shengquan Group (China) Recent Developments/Updates

Table 80. NEI Corporation (USA) Basic Information, Manufacturing Base and Competitors

Table 81. NEI Corporation (USA) Major Business

Table 82. NEI Corporation (USA) Pitch-Based Hard Carbon Anode Product and Services

Table 83. NEI Corporation (USA) Pitch-Based Hard Carbon Anode Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. NEI Corporation (USA) Recent Developments/Updates

Table 85. Global Pitch-Based Hard Carbon Anode Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 86. Global Pitch-Based Hard Carbon Anode Revenue by Manufacturer (2021-2026) & (USD Million)

Table 87. Global Pitch-Based Hard Carbon Anode Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 88. Market Position of Manufacturers in Pitch-Based Hard Carbon Anode, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 89. Head Office and Pitch-Based Hard Carbon Anode Production Site of Key Manufacturer

Table 90. Pitch-Based Hard Carbon Anode Market: Company Product Type Footprint

Table 91. Pitch-Based Hard Carbon Anode Market: Company Product Application Footprint

Table 92. Pitch-Based Hard Carbon Anode New Market Entrants and Barriers to Market Entry

Table 93. Pitch-Based Hard Carbon Anode Mergers, Acquisition, Agreements, and Collaborations

Table 94. Global Pitch-Based Hard Carbon Anode Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

- Table 95. Global Pitch-Based Hard Carbon Anode Sales Quantity by Region (2021-2026) & (Tons)
- Table 96. Global Pitch-Based Hard Carbon Anode Sales Quantity by Region (2027-2032) & (Tons)
- Table 97. Global Pitch-Based Hard Carbon Anode Consumption Value by Region (2021-2026) & (USD Million)
- Table 98. Global Pitch-Based Hard Carbon Anode Consumption Value by Region (2027-2032) & (USD Million)
- Table 99. Global Pitch-Based Hard Carbon Anode Average Price by Region (2021-2026) & (US\$/Ton)
- Table 100. Global Pitch-Based Hard Carbon Anode Average Price by Region (2027-2032) & (US\$/Ton)
- Table 101. Global Pitch-Based Hard Carbon Anode Sales Quantity by Type (2021-2026) & (Tons)
- Table 102. Global Pitch-Based Hard Carbon Anode Sales Quantity by Type (2027-2032) & (Tons)
- Table 103. Global Pitch-Based Hard Carbon Anode Consumption Value by Type (2021-2026) & (USD Million)
- Table 104. Global Pitch-Based Hard Carbon Anode Consumption Value by Type (2027-2032) & (USD Million)
- Table 105. Global Pitch-Based Hard Carbon Anode Average Price by Type (2021-2026) & (US\$/Ton)
- Table 106. Global Pitch-Based Hard Carbon Anode Average Price by Type (2027-2032) & (US\$/Ton)
- Table 107. Global Pitch-Based Hard Carbon Anode Sales Quantity by Application (2021-2026) & (Tons)
- Table 108. Global Pitch-Based Hard Carbon Anode Sales Quantity by Application (2027-2032) & (Tons)
- Table 109. Global Pitch-Based Hard Carbon Anode Consumption Value by Application (2021-2026) & (USD Million)
- Table 110. Global Pitch-Based Hard Carbon Anode Consumption Value by Application (2027-2032) & (USD Million)
- Table 111. Global Pitch-Based Hard Carbon Anode Average Price by Application (2021-2026) & (US\$/Ton)
- Table 112. Global Pitch-Based Hard Carbon Anode Average Price by Application (2027-2032) & (US\$/Ton)
- Table 113. North America Pitch-Based Hard Carbon Anode Sales Quantity by Type (2021-2026) & (Tons)
- Table 114. North America Pitch-Based Hard Carbon Anode Sales Quantity by Type

(2027-2032) & (Tons)

Table 115. North America Pitch-Based Hard Carbon Anode Sales Quantity by Application (2021-2026) & (Tons)

Table 116. North America Pitch-Based Hard Carbon Anode Sales Quantity by Application (2027-2032) & (Tons)

Table 117. North America Pitch-Based Hard Carbon Anode Sales Quantity by Country (2021-2026) & (Tons)

Table 118. North America Pitch-Based Hard Carbon Anode Sales Quantity by Country (2027-2032) & (Tons)

Table 119. North America Pitch-Based Hard Carbon Anode Consumption Value by Country (2021-2026) & (USD Million)

Table 120. North America Pitch-Based Hard Carbon Anode Consumption Value by Country (2027-2032) & (USD Million)

Table 121. Europe Pitch-Based Hard Carbon Anode Sales Quantity by Type (2021-2026) & (Tons)

Table 122. Europe Pitch-Based Hard Carbon Anode Sales Quantity by Type (2027-2032) & (Tons)

Table 123. Europe Pitch-Based Hard Carbon Anode Sales Quantity by Application (2021-2026) & (Tons)

Table 124. Europe Pitch-Based Hard Carbon Anode Sales Quantity by Application (2027-2032) & (Tons)

Table 125. Europe Pitch-Based Hard Carbon Anode Sales Quantity by Country (2021-2026) & (Tons)

Table 126. Europe Pitch-Based Hard Carbon Anode Sales Quantity by Country (2027-2032) & (Tons)

Table 127. Europe Pitch-Based Hard Carbon Anode Consumption Value by Country (2021-2026) & (USD Million)

Table 128. Europe Pitch-Based Hard Carbon Anode Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Asia-Pacific Pitch-Based Hard Carbon Anode Sales Quantity by Type (2021-2026) & (Tons)

Table 130. Asia-Pacific Pitch-Based Hard Carbon Anode Sales Quantity by Type (2027-2032) & (Tons)

Table 131. Asia-Pacific Pitch-Based Hard Carbon Anode Sales Quantity by Application (2021-2026) & (Tons)

Table 132. Asia-Pacific Pitch-Based Hard Carbon Anode Sales Quantity by Application (2027-2032) & (Tons)

Table 133. Asia-Pacific Pitch-Based Hard Carbon Anode Sales Quantity by Region (2021-2026) & (Tons)

Table 134. Asia-Pacific Pitch-Based Hard Carbon Anode Sales Quantity by Region (2027-2032) & (Tons)

Table 135. Asia-Pacific Pitch-Based Hard Carbon Anode Consumption Value by Region (2021-2026) & (USD Million)

Table 136. Asia-Pacific Pitch-Based Hard Carbon Anode Consumption Value by Region (2027-2032) & (USD Million)

Table 137. South America Pitch-Based Hard Carbon Anode Sales Quantity by Type (2021-2026) & (Tons)

Table 138. South America Pitch-Based Hard Carbon Anode Sales Quantity by Type (2027-2032) & (Tons)

Table 139. South America Pitch-Based Hard Carbon Anode Sales Quantity by Application (2021-2026) & (Tons)

Table 140. South America Pitch-Based Hard Carbon Anode Sales Quantity by Application (2027-2032) & (Tons)

Table 141. South America Pitch-Based Hard Carbon Anode Sales Quantity by Country (2021-2026) & (Tons)

Table 142. South America Pitch-Based Hard Carbon Anode Sales Quantity by Country (2027-2032) & (Tons)

Table 143. South America Pitch-Based Hard Carbon Anode Consumption Value by Country (2021-2026) & (USD Million)

Table 144. South America Pitch-Based Hard Carbon Anode Consumption Value by Country (2027-2032) & (USD Million)

Table 145. Middle East & Africa Pitch-Based Hard Carbon Anode Sales Quantity by Type (2021-2026) & (Tons)

Table 146. Middle East & Africa Pitch-Based Hard Carbon Anode Sales Quantity by Type (2027-2032) & (Tons)

Table 147. Middle East & Africa Pitch-Based Hard Carbon Anode Sales Quantity by Application (2021-2026) & (Tons)

Table 148. Middle East & Africa Pitch-Based Hard Carbon Anode Sales Quantity by Application (2027-2032) & (Tons)

Table 149. Middle East & Africa Pitch-Based Hard Carbon Anode Sales Quantity by Country (2021-2026) & (Tons)

Table 150. Middle East & Africa Pitch-Based Hard Carbon Anode Sales Quantity by Country (2027-2032) & (Tons)

Table 151. Middle East & Africa Pitch-Based Hard Carbon Anode Consumption Value by Country (2021-2026) & (USD Million)

Table 152. Middle East & Africa Pitch-Based Hard Carbon Anode Consumption Value by Country (2027-2032) & (USD Million)

Table 153. Pitch-Based Hard Carbon Anode Raw Material

Table 154. Key Manufacturers of Pitch-Based Hard Carbon Anode Raw Materials

Table 155. Pitch-Based Hard Carbon Anode Typical Distributors

Table 156. Pitch-Based Hard Carbon Anode Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Pitch-Based Hard Carbon Anode Picture

Figure 2. Global Pitch-Based Hard Carbon Anode Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Pitch-Based Hard Carbon Anode Revenue Market Share by Type in 2025

Figure 4. 1-5?m Examples

Figure 5. 5-10?m Examples

Figure 6. Others Examples

Figure 7. Global Pitch-Based Hard Carbon Anode Revenue by Specific Capacity, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Pitch-Based Hard Carbon Anode Revenue Market Share by Specific Capacity in 2025

Figure 9. Specific Capacity

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