

Global Porous Hard Carbon 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 Porous Hard Carbon market size was valued at US\$ 1420 million in 2025 and is forecast to a readjusted size of US\$ 10508 million by 2032 with a CAGR of 34.2% during review period.

Porous Hard Carbon is an advanced anode material designed for lithium-ion and sodium-ion batteries, characterized by a highly developed porous structure formed through controlled carbonization and microstructure engineering of carbon precursors. The interconnected pore network enhances ion storage and transport efficiency, enabling high capacity and stable cycling performance in energy storage systems. Its advantages include high specific capacity, strong structural stability, and long battery service life. The capacity utilization rate in 2025 reached 78%, and the industry's average gross margin was approximately 35%. Production in 2025 totaled 45,544 tons at an average price of 30,300 USD per ton. The upstream segment mainly consists of coconut shells and pitch, with representative suppliers including Olam Group, Cargill, Baowu Carbon Materials, and Sinopec. The midstream focuses on carbonization, pore structure regulation, particle size control, and purity optimization to ensure consistent electrochemical performance. Downstream applications are primarily in lithium-ion batteries and sodium-ion batteries, with key customers including Panasonic, Samsung SDI, CATL, BYD, and Farasis Energy.

In sodium-ion and lithium-ion battery applications, Porous Hard Carbon will increasingly be adopted in energy storage systems, electric two-wheelers, and selected power battery platforms that require improved low-temperature performance and stable high-rate charging capability. As battery manufacturers pursue longer cycle life and better energy efficiency, materials with optimized pore structures and stable electrochemical

behavior are expected to gain broader application opportunities. Future development will be closely linked to sodium-ion battery commercialization, large-scale energy storage deployment, and the growing demand for cost-effective high-performance anode materials.

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

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

Global Porous Hard Carbon 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 Porous Hard Carbon 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 Porous Hard Carbon

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 Porous Hard Carbon 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

Porous Hard Carbon 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

Bio-based

Petroleum-based

Resin-based

Market segment by Specific Capacity

Specific Capacity

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