

# Global Phosphorus-doped Hard Carbon Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G42724F1C77BEN.html>

Date: May 2026

Pages: 109

Price: US\$ 3,480.00 (Single User License)

ID: G42724F1C77BEN

## Abstracts

According to our (Global Info Research) latest study, the global Phosphorus-doped Hard Carbon market size was valued at US\$ 301 million in 2025 and is forecast to a readjusted size of US\$ 1062 million by 2032 with a CAGR of 19.6% during review period.

Phosphorus-doped Hard Carbon is an advanced carbon anode material in which phosphorus atoms are intentionally introduced into the disordered carbon structure (typically derived from biomass, polymers, or pitch) to modify its electronic configuration, enlarge interlayer spacing, and create additional active sites, thereby improving sodium-ion or lithium-ion storage capacity, rate capability, and initial coulombic efficiency. From a supply chain perspective, the upstream consists of carbon precursors (e.g., lignin, sucrose, phenolic resins, petroleum pitch) and phosphorus sources (such as phosphoric acid, ammonium phosphate, or organophosphorus compounds); the midstream involves carbonization and high-temperature pyrolysis (800-1,500°C) combined with doping processes (in-situ or post-treatment activation) to form P-doped hard carbon with controlled porosity and defect structures; and the downstream includes integration into battery anode formulations (with binders and conductive additives), electrode fabrication, and deployment in sodium-ion batteries, next-generation lithium-ion systems, and hybrid energy storage devices, serving end-use sectors such as grid-scale energy storage, electric vehicles (especially low-cost or cold-climate applications), and consumer electronics. In 2025, global Phosphorus-doped Hard Carbon output was about 60,000 tons with 90,000 tons of capacity, average prices of USD 4,500 - 8,000 per ton, and gross margins around 36%.

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

Global Phosphorus-doped 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 Phosphorus-doped 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 Phosphorus-doped 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 Phosphorus-doped 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 Phosphorus-doped 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 BTR New Material (China), Ningbo

Shanshan (China), Shanghai Putailai (China), Shenzhen Xiangfenghua (China), Fujian Yuanli (China), Fujian Xinsen (China), Shengquan Group (China), Hunan Shinzoom Technology (China), Ipsilon (South Korea), Kuraray (Japan), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Phosphorus-doped 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

Biomass-derived P-HC

Polymer-derived P-HC

Pitch-derived P-HC

### Market segment by Doping Method

In-situ Doping

Post-treatment Doping

### Market segment by Application

Energy Storage

Grid Infrastructure

Electric Vehicle

Consumer Electronic

Industrial

Others

#### Major players covered

BTR New Material (China)

Ningbo Shanshan (China)

Shanghai Putailai (China)

Shenzhen Xiangfenghua (China)

Fujian Yuanli (China)

Fujian Xinsen (China)

Shengquan Group (China)

Hunan Shinzoom Technology (China)

Iopsilion (South Korea)

Kuraray (Japan)

JFE Chemical (Japan)

Kureha Corporation (Japan)

Sumitomo Chemical (Japan)

Stora Enso (Finland)

#### Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Phosphorus-doped Hard Carbon product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phosphorus-doped Hard Carbon, with price, sales quantity, revenue, and global market share of Phosphorus-doped Hard Carbon from 2021 to 2026.

Chapter 3, the Phosphorus-doped Hard Carbon competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phosphorus-doped Hard Carbon breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Phosphorus-doped Hard Carbon market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Phosphorus-doped Hard Carbon.

Chapter 14 and 15, to describe Phosphorus-doped Hard Carbon sales channel, distributors, customers, research findings and conclusion.

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