

# Global Activated 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 Activated Hard Carbon market size was valued at US\$ 1011 million in 2025 and is forecast to a readjusted size of US\$ 2596 million by 2032 with a CAGR of 14.4% during review period.

Activated Hard Carbon is a highly porous carbon material derived from hard carbon precursors (such as biomass, resins, or pitch) that undergo additional activation processes—typically chemical activation (e.g., KOH, ZnCl<sub>2</sub>) or physical activation (steam or CO<sub>2</sub>)—to significantly increase surface area, pore volume, and ion-accessible channels. Compared to standard hard carbon, activated hard carbon features a hierarchical pore structure (micropores + mesopores), making it particularly suitable for applications requiring high adsorption capacity or enhanced electrochemical kinetics, such as sodium-ion batteries, supercapacitors, gas adsorption, and catalysis. The supply chain begins upstream with carbon-rich feedstocks (biomass like coconut shells, lignin, or synthetic polymers), followed by midstream carbonization (pyrolysis at 800–1400°C in inert atmosphere) to form hard carbon, and then activation processing to tailor porosity and surface chemistry. Downstream steps include purification, milling, classification, and surface modification to meet application-specific requirements. The end-use sectors span energy storage (especially sodium-ion and hybrid capacitors), environmental applications (air/water purification), chemical processing (catalyst supports), and emerging fields such as carbon capture and hydrogen storage. In 2025, global Activated Hard Carbon output was about 420,000 tons with 650,000 tons of capacity, average prices of USD 2,200 – 3,800 per ton, and gross margins around 33%.

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

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

Global Activated Hard Carbon market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Activated Hard Carbon market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 Activated 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 Activated 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**

Activated 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

Chemical Activation Type

Physical Activation Type

Combined Activation Type

### Market segment by Raw Material

Biomass-Derived

Polymer-Derived

Pitch-Based

### Market segment by Application

Energy Storage

Electric Vehicle

Water Treatment

Air Purification

Automotive

Petrochemical

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)

Ipsilon (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 Activated Hard Carbon product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Activated 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 Activated 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 Activated Hard Carbon.

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

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