

# Global Hierarchical Porous 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 Hierarchical Porous Carbon market size was valued at US\$ 2093 million in 2025 and is forecast to a readjusted size of US\$ 4756 million by 2032 with a CAGR of 12.4% during review period.

Hierarchical Porous Carbon (HPC) is a class of advanced carbon materials engineered with a multi-scale pore structure—typically integrating micropores (50 nm)—within a single framework to optimize surface area, mass transport, and electrochemical performance. It is widely used in applications such as lithium/sodium-ion battery anodes, supercapacitors, catalysis, adsorption, and gas storage due to its high conductivity, tunable porosity, and structural stability. The supply chain begins upstream with carbon-rich precursors such as biomass (e.g., lignin, cellulose, coconut shells), synthetic polymers (e.g., phenolic resins, polyacrylonitrile), or petroleum pitch, along with activating agents like KOH, ZnCl<sub>2</sub>, or CO<sub>2</sub>. Midstream processing involves carbonization (typically 600–1200°C), chemical or physical activation to create hierarchical pores, templating (hard/soft templates like silica or block copolymers), and post-treatments such as doping (N, O, S) or surface functionalization. Downstream, HPC materials are integrated into electrodes, catalyst supports, filtration systems, and energy storage devices, with key end users spanning EV batteries, grid storage, water purification, and chemical processing industries. In 2025, global Hierarchical Porous Carbon output was about 900,000 tons with 1.3 million tons of capacity, average prices of USD 2,100 – 3,800 per ton, and gross margins around 33%.

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

Global Hierarchical Porous 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 Hierarchical Porous 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 Hierarchical Porous 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 Hierarchical Porous 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 Hierarchical Porous 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**

Hierarchical Porous 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 HPC

Physical Activation HPC

### Market segment by Raw Material

Biomass-Derived HPC

Polymer-Derived HPC

Pitch-Based HPC

### Market segment by Application

Energy Storage

Grid Infrastructure

Water Treatment

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 Hierarchical Porous Carbon product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Hierarchical Porous 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 Hierarchical Porous 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 Hierarchical

Porous Carbon.

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

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