

Global Microporous 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 Microporous Carbon market size was valued at US\$ 4057 million in 2025 and is forecast to a readjusted size of US\$ 7058 million by 2032 with a CAGR of 8.2% during review period.

Microporous carbon is a class of carbon materials characterized by an extremely high surface area and a pore size typically below 2 nanometers, formed through controlled carbonization and activation of carbon-rich precursors. These materials are widely used for adsorption, catalysis, and energy storage due to their ability to trap molecules and ions at the nanoscale. The supply chain begins with upstream raw materials such as coal, coconut shells, wood, petroleum pitch, or synthetic polymers, which are converted into carbon through pyrolysis at high temperatures in inert environments. This is followed by activation processes—either physical activation (using steam or CO₂) or chemical activation (using agents like KOH or ZnCl₂)—to create the microporous structure. Midstream production involves shaping and processing into powders, granules, or structured forms (e.g., electrodes, filters), often with additional surface functionalization for specific applications. Downstream, microporous carbon is integrated into end-use sectors such as water and air purification, gas separation, supercapacitors, lithium-ion batteries, and industrial catalysis, with distribution handled by specialty chemical suppliers or directly by manufacturers to OEMs and system integrators. In 2025, global Microporous Carbon output was about 2.2 million tons with 2.6 million tons of capacity, average prices of USD 1,500–4,000 per ton, and gross margins around 27%.

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

Global Microporous 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 Microporous 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 Microporous 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 Microporous 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 Microporous 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 Calgon Carbon (USA), Ingevity (USA), Norit (Netherlands), Jacobi Carbons (Sweden), Donau Carbon (Germany), CarboTech (Germany), CPL Activated Carbons (UK), Silcarbon Aktivkohle (Germany), Kuraray

(Japan), Osaka Gas Chemicals (Japan), etc.

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

Market Segmentation

Microporous 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

Physically Activated Carbon

Chemically Activated Carbon

Market segment by Pore Size

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