

Activated Carbon Market Research Report Information By Product (Powdered, Granular, Others) By Raw Material (Coal, Coconut, Wood, Peat, Others) By Application (Liquid-Phase, Gas-Phase) By End-User (Water Treatment, Food & Beverage Processing, Pharmaceutical & Medical, Automotive, Air Purification, Mining, Textiles, Electronics, Others) and By Region (North America, Europe, Asia-Pacific, South America, Middle East and Africa)-Global Forecast to 2032

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Market Synopsis

In 2023, the market for activated carbon was estimated to be worth USD 6.36 billion. According to projections, the Activated Carbon business would expand at a compound annual growth rate (CAGR) of 7.60% from USD 6.84 billion in 2024 to USD 12.29 billion by 2032. The requirement to eliminate pollutants from water sources and the rising demand for clean water are expected to be major factors driving the activated carbon market during the projected period. Activated carbon finds widespread application in the adsorption of taste and odor molecules, synthetic organic chemicals, and natural organic compounds from drinking water. Because of its high porosity and vast surface area, which allow pollutants to adsorb, it works well as an adsorbent. It can also be applied to soften water. Furthermore, only a very particular type of activated carbon water treatment-typically found solely in household point-of-use filters-can remove heavy elements like lead. Every day, significant manufacturing sectors like textiles, oil and gas, food and beverage, chemicals, and mining produce a lot of wastewaters. Numerous pollutants, including

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organic waste, non-biodegradable compounds, and trace amounts of metals and oxides, are present in this water. This makes treating the effluent water necessary because untreated contaminated water can lead to dehydration, nausea, diarrhea, gastrointestinal issues, and even death.

Insights On Market Segments

Granular, powdered, and other categories make up the product-based segments of the activated carbon market.

Based on raw material, the activated carbon market has been divided into the following segments: coal, coconut, wood, peat, and others.

Liquid-phase and gas-phase segments make up the segmentation of the activated carbon market based on application.

The market has been divided into end-user categories such as water treatment, food and beverage processing, automotive, air purification, pharmaceuticals and medical, mining, textiles, electronics, and others.

Regional Insights on Activated Carbon

With a CAGR of 9.36%, the Asia Pacific region emerged as the market leader and fastest-growing category for activated carbon.

By the end of the projected period, the segment is expected to be valued USD 9,064.16 million. The need for activated carbon is being fueled by the rapid expansion of the food and beverage, automotive, and chemicals sectors in China, India, and Indonesia.

The region's industrial sector's growing requirement for water purification and reuse as a result of water shortage is anticipated to increase demand for the product in the next years. Over the course of the forecast period, the region's automotive industry is expected to grow, and the usage of activated carbon to reduce gaseous emissions from cars is expected to increase. According to Invest India, the demand for activated carbon used in the automotive industry is expected to increase as the market for electric vehicles is predicted to rise at a CAGR of 49% between 2022 and 2030.

Key Players

NORIT, Osaka Gas Chemicals Co., Ltd., Kuraray Co., Ltd., HAYCARB (PVT) LTD, Kureha, Donau Carbon GmbH, Silcarbon Aktivkohle GmbH, Lenntech B.V., Karbonous Inc., Karbonous Inc., Lenntech BV, and Carbon Activated Corporation are some of the major companies in the activated carbon market.

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