

Activated Carbon Market Size To Reach USD 15.18 Billion 2032, to Grow at 9.32% Through 2025 To 2032

Activated Carbon market revenue is expected to grow at 9.32% through 2025 to 2032, reaching nearly US \$ 15.18 Billion.

ORLANDO, FL, UNITED STATES, June 23, 2025 /EINPresswire.com/ -- Stellar Market Research examines the growth rate of the [Activated Carbon Market](#) during the forecasted period 2025-2032

The Activated Carbon Market is projected to grow at a compound annual growth rate (CAGR) of

approximately 9.32% over the forecast period. The Activated Carbon Market was valued at USD 7.44 bn in 2024 and is expected to reach USD 15.18 bn by 2032. The main forces driving the Activated Carbon Market are regulations, increasing pollution, the need for cleaner air and water, industry growth and industry-based applications, a wide variety of applications, and innovative development in the context of high-performing carbon manufacturing and sustainability.



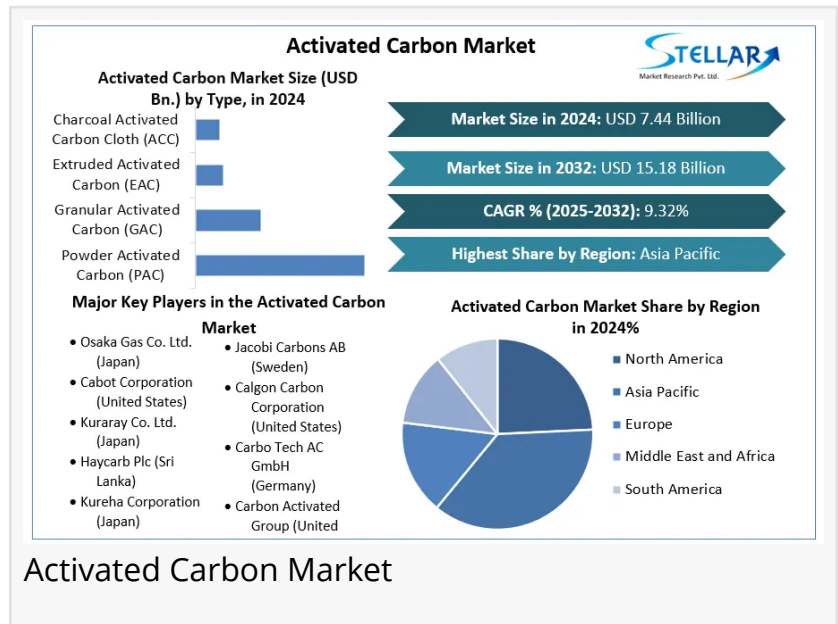
Invisible yet essential, activated carbon powers purification across industries worldwide."

Dharati Raut

Carbon Activated Market Overview

The Activated Carbon Market is expanding due to the growing demand for water and air purification applications in food, pharmacy, and mining industries. The increase in

industrial activity, especially in the Asia-Pacific region, combined with stricter environmental standards, is supporting the growth of the activated carbon market. Types of activated carbon, including powdered, granular, and extruded carbon from coal (or pit), coconut shells, and wood, will continue to be significant in this growth. There is an increase in more suppliers entering the market, new technology development, and an increasing interest in bio-based activated carbon



producers which will also support growth. Activated carbon features across an increasing range of downstream applications are going to continue to have importance for sustainability including gold recovery, mercury removal, and addressing pollution.

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Carbon Activated Market Dynamics

Drivers

Shift Toward Sustainable, Bio-based Raw Materials

The activated carbon market is moving towards sustainable bio-based feedstocks such as coconut shells and wood, because they produce the highest quality carbon with lower emissions. Additional innovations ranging from microwave assisted production to industrial processes becoming more energy efficient, are also facilitating the transition. Major regions such as India and China are scaling construction capacity as demand increases for activated carbon and sustainable consumer preferences lead to carbon adoption.

Technological Advancements in Production and Application

Developments in activated carbon technology embrace impregnated versions to target specific contaminants and energy-efficient reactivation through microwave and electrochemical regeneration. The use of AI-assisted manufacturing contributes to better-quality and more efficient manufacturing. Recent activity by a number of manufacturers including Arq, Kuraray, and Desotec has growing consumer demand for both high-performance carbon and reactivated carbon, which reduces costs and environmental impacts, while creating opportunities for new applications in air, water, and energy.

Expansion of Industrial Applications

Activated carbon is increasingly adopted in industry sectors such as pharmaceuticals (purification, toxin absorption), food and beverage (filtration, purification), mining (gold recovery in CIP/CIL), and automotive (air filter, soot control). Recent developments have included capacity expansions by Jacobi, Calgon Carbon, and Cabot. Accelerating demand, regulatory requirements, and a variety of application methods and uses are leading to continued adoption and technological advancement in all the cited industry sectors.

Restrain

Competition from Alternative Technologies

New and emerging options such as membrane filtration, biofiltration, ion exchange, and advanced oxidation provide effective, and sometimes even more effective, purification than activated carbon. With new technology, these alternatives have reduced costs and improved capabilities to a point where they can be competitive with or substitute for activated carbon. Increased operational costs for activated carbon and stricter regulatory requirements are encouraging the use of these options. Recent developments in these technologies include improvements to membranes, better and optimized biofilters, more advanced resins, and more affordable oxidation processes.

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Innovations and Developments

Technological innovation is a key factor propelling the Carbon Activated Market forward. Notable advancements include:

Nano-Activated Carbon: By using nanotechnology, activated carbon plays an enhanced role increasing surface area and enhancing the pore structure, increasing adsorption potential, and significantly decreasing contaminants in various settings.

Spherical Activated Carbon (SAC): Spherical Activated Carbon (SAC) has consistent flow properties because the spherical shape affords this benefit which is ideal for applications requiring high-efficiency filtration, such as pharmaceutical and energy storage applications.

Carbon Activated Market Segmentation

By Type

By Type, the Trade Management Market is further segmented into Powder Activated Carbon (PAC), Granular Activated Carbon (GAC), Extruded Activated Carbon (EAC), and Charcoal Activated Carbon Cloth (ACC). Granular Activated Carbon (GAC) is the leading form of activated carbon in terms of its versatility, handleability, and cost effective regeneration. Granular activated carbon is the most common form of activated carbon used in water and air purification, thanks to its large surface area and extensive capacity for adsorbate including some inorganics. GAC's ability to be used both industrially on a large scale and for municipal water treatment, in addition to its function in the gold recovery process, provides both versatility and ease of use.

Carbon Activated Market Regional Analysis

Asia-Pacific: Asia-Pacific is the top region that activated carbon market dominates due to having a large base of manufacturing capacity, a wealth of raw materials, fast-paced industrial growth and strict environmental regulation. The region also has high urbanization rates and increased

investment in water and air purification infrastructure, all of which exacerbates the demand for activated carbon, its manufacturing and consumption.

North America: North America occupies the second position in the activated carbon marketplace, driven by strict environmental regulations, a robust industrial base in pharmaceuticals and automotive, developed manufacturing infrastructure, and improved sustainable technology usage and wastewater treatment technologies, leading to a consistent growth of the market.

Europe: Europe is ranked third in the market for activated carbon due to the presence of strong national environmental laws, strong physical industries, very capable technology bases in order to produce specialized products, and an overall basis of sustainability and green practices strongly effecting demand.

Carbon Activated Market Competitive Landscape

The global and regional players in the Carbon Activated Market concentrate on developing and enhancing their capabilities, resulting in fierce competition. Notable players include:

Osaka Gas Co. Ltd. (Japan)
Cabot Corporation (United States)
Kuraray Co. Ltd. (Japan)
Haycarb Plc (Sri Lanka)
Kureha Corporation (Japan)
Jacobi Carbons AB (Sweden)
Calgon Carbon Corporation (United States)
Carbo Tech AC GmbH (Germany)
Carbon Activated Group (United States)
Ingevity (United States)
Tronox (United States)

Summary

In 2024, the Global Activated Carbon Market was valued at USD 7.44 billion, and is projected to grow at a CAGR of 9.32%, reaching USD 15.18 billion by 2032. Owing to stringent environmental laws and regulations, rising pollution levels, increased industrialization, and the demand for cleaner air and water, activated carbon enjoys rising demand. The Asia-Pacific region leads the global market due to the large supply of raw materials, higher industrialization and economic development rates, followed by North America and Europe.

The market is responding to trends toward sustainable, bio-based raw materials (e.g. coconut shells), but also introducing new technologies (e.g. impregnated and reactivated carbon). Commercial applications include pharmaceuticals, food & beverage, mining, and automotive.

There are some competition issues with alternative treatments e.g. membrane filtration, and biofiltration.

There are currently innovations in nanoactivated carbon for enhanced adsorption and introduction of spherical activated carbon as a means of high-efficiency filtration. Granular activated carbon (GAC) still remains the leading product for the market since it is versatile and low-cost. Major participants of the GAC market include Osaka Gas, Cabot Corporation, Kuraray, Jacobi Carbons, and Calgon Carbon. Technological and sustainability goals will always drive competition in the activated carbon market.

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Contact Stellar Market Research:

S.no.8, h.no. 4-8 Pl.7/4, Kothrud,
Pinnac Memories Fl. No. 3, Kothrud, Pune,
Pune, Maharashtra, 411029
sales@stellarmr.com

Lumawant Godage
Stellar Market Research
+ +91 9607365656

[email us here](#)

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