

# **Wood Activated Carbon Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented by Form (Granular, Powdered), By Application (Decolorization, Fluid Adsorption, Purification), By End User (Air Purification, Automotive, Food & Beverage Processing, Pharmaceutical & Medical, Water Treatment), By Region and competition**

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## **Abstracts**

Global Wood Activated Carbon Market has valued at USD 431.98 million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 8.70% through 2028.

Activated carbon, also known as activated charcoal, is a carbonaceous, highly porous adsorptive medium with a complex structure composed primarily of carbon atoms. Wood activated carbon is specifically derived from wood sources and has gained significant traction due to its environmental benefits and superior adsorptive properties.

The global wood activated carbon market has been observing steady growth over the past few years. This growth can be attributed to increasing demand in applications like water purification, air purification, and industrial processes.

As concerns about environmental pollution rise globally, there is an increasing demand for sustainable purification solutions. Wood activated carbon, being a renewable source, serves as an eco-friendly solution. Stringent regulations regarding water and air quality standards across several countries are pushing industries to adopt cleaner

technologies, leading to increased demand for wood activated carbon. Continuous R&D and technological advancements in the field are resulting in products with higher adsorption capacities and specific functionalities tailored to applications.

The process of producing wood activated carbon can be more expensive than other forms, potentially limiting its adoption in price-sensitive regions or industries. Other forms of activated carbon, like those derived from coal or coconut shell, can sometimes be preferred based on specific application needs.

The APAC region, led by countries like China and India, is witnessing rapid industrialization, resulting in increased demand for purification solutions. It holds a significant share of the global wood activated carbon market. Driven by stringent environmental regulations and the presence of major market players, North America remains a key region in the market. Europe, with its focus on sustainable solutions and clean technologies, also contributes considerably to the global demand.

The global wood activated carbon market is poised for continued growth, driven by increasing environmental concerns and the need for sustainable purification solutions. Despite challenges like high production costs and competition from alternatives, the advantages offered by wood activated carbon, coupled with technological advancements, are expected to drive its demand in the coming years.

### Key Market Drivers

Increasing Use of Wood Activated Carbon for Soil Remediation Applications and in Pharmaceutical Stimulant is Major Factor for Wood Activated Carbon Market Growth

The global Wood Activated Carbon market is experiencing robust growth, primarily propelled by the growing demand for disposable hygiene products. Wood Activated Carbon have become indispensable in ensuring the reliable adhesion and functionality of these products, contributing to user comfort and hygiene. As the popularity of disposable hygiene products continues to rise, the market for Wood Activated Carbon is expected to thrive. Manufacturers and suppliers in this market must remain at the forefront of technology and innovation to meet the evolving demands of product manufacturers, ensuring continued growth and improved hygiene outcomes worldwide, while addressing sustainability concern. The wood activated carbon market has been experiencing a significant surge in growth, largely attributed to its expanding applications in soil remediation and pharmaceutical stimulant production. Wood activated carbon, a highly porous and adsorbent material derived from various wood

sources, has gained prominence due to its remarkable adsorption capabilities and eco-friendly nature.

In recent years, soil contamination has become a pressing environmental concern, primarily due to industrial activities, agricultural practices, and improper waste disposal. The use of wood activated carbon has emerged as a powerful solution for soil remediation. It effectively removes a wide range of pollutants, including heavy metals, organic compounds, and pesticides, from contaminated soil. The unique porous structure of wood activated carbon provides a vast surface area for adsorption, allowing it to trap and immobilize contaminants, thereby purifying the soil. This environmentally sustainable approach has garnered attention and investment from both governmental bodies and private enterprises, driving the growth of the wood activated carbon market in the soil remediation sector.

Additionally, the pharmaceutical industry has recognized the value of wood activated carbon in the production of stimulant drugs. Activated carbon derived from wood has several advantages, such as high purity, low ash content, and well-controlled pore size distribution. These characteristics make it an ideal choice for pharmaceutical applications. In the pharmaceutical sector, wood activated carbon is primarily used for the purification and decolorization of chemicals and intermediates. It plays a crucial role in enhancing the quality and safety of pharmaceutical products, ensuring they meet stringent regulatory standards. As the pharmaceutical industry continues to expand globally, the demand for wood activated carbon as a key ingredient in drug manufacturing processes is on the rise, further fueling market growth.

Moreover, the environmental consciousness of consumers and industries has contributed to the surging popularity of wood activated carbon. Unlike some alternative activated carbons, wood-based activated carbon is considered more sustainable and environmentally friendly, as it utilizes renewable resources. This aligns with the global push for sustainability and reduced carbon footprint in various sectors. As a result, companies are increasingly opting for wood activated carbon in their processes, promoting its adoption across industries.

Furthermore, technological advancements and innovations in the production of wood activated carbon have also played a pivotal role in market growth. Manufacturers have been investing in research and development to improve the quality and efficiency of wood activated carbon production methods. These efforts have led to the development of tailored wood activated carbon products optimized for specific applications, such as soil remediation and pharmaceuticals. This customization has widened the scope of

applications and boosted overall market demand.

In conclusion, the increasing use of wood activated carbon in soil remediation and pharmaceutical stimulant production has emerged as a major driver for the growth of the wood activated carbon market. Its versatility, sustainability, and efficiency make it a preferred choice for addressing environmental challenges and meeting high-quality standards in pharmaceuticals. As industries and governments continue to prioritize environmental protection and product quality, the wood activated carbon market is poised for sustained growth in the coming years, with new applications and innovations likely to further expand its reach.

### Growing Application in Water Treatment and Food & Beverage Processing Industries Drives the Demand for Wood Activated Carbon Market

The wood activated carbon market is experiencing substantial growth, primarily driven by its expanding applications in the water treatment and food & beverage processing industries. Wood activated carbon, derived from various wood sources, has garnered significant attention due to its exceptional adsorption properties and its increasing role in addressing water quality and food safety challenges.

In recent years, concerns about water contamination and scarcity have intensified, leading to a heightened demand for effective water treatment solutions. Wood activated carbon has emerged as a crucial component in water treatment processes. Its porous structure provides an extensive surface area for adsorption, making it highly effective in removing a wide range of waterborne contaminants, including organic compounds, chlorine, taste and odor compounds, and heavy metals. This makes it an indispensable tool in both municipal water treatment facilities and industrial water purification systems. The environmentally friendly nature of wood activated carbon, derived from renewable resources, aligns with the global push for sustainable water treatment practices, further driving its adoption in this sector.

Furthermore, the food & beverage processing industry has recognized the value of wood activated carbon in ensuring product quality and safety. Activated carbon derived from wood is known for its purity and consistent pore size distribution, making it an ideal choice for various applications in this sector. Wood activated carbon is widely employed in food and beverage processing to remove impurities, contaminants, and off-flavors from raw materials and finished products. It is used in the purification and decolorization of sugar syrups, fruit juices, alcoholic beverages, and edible oils, among other products. The stringent quality standards imposed by regulatory authorities and the increasing

consumer demand for clean and safe food products have prompted food and beverage manufacturers to rely on wood activated carbon as a vital processing aid.

Moreover, the wood activated carbon market is benefitting from continuous advancements in production technology and research and development efforts. Manufacturers are investing in refining wood activation processes, resulting in improved product quality, higher adsorption capacities, and enhanced performance in various applications. These innovations have paved the way for tailored wood activated carbon products designed to meet the specific requirements of the water treatment and food & beverage industries.

The sustainability factor also plays a significant role in the growth of the wood activated carbon market. With increasing awareness of environmental issues, companies across industries are seeking sustainable alternatives. Wood-based activated carbon aligns with these sustainability goals, as it is derived from renewable resources and offers an eco-friendlier option compared to some alternative activated carbons. This aspect resonates with environmentally conscious consumers and companies, contributing to the market's expansion.

In conclusion, the growing applications of wood activated carbon in the water treatment and food & beverage processing industries are key factors propelling the market's growth. Its effectiveness in removing contaminants and ensuring product quality, combined with its sustainability and continuous technological advancements, positions wood activated carbon as a vital and versatile tool in addressing the water and food processing challenges of today and the future. As the importance of clean water and safe food production continues to rise, the wood activated carbon market is poised for sustained growth and diversification.

#### Favorable Regulations Related to the Clean and Healthy Air

The growth of the wood activated carbon market has been significantly influenced by favorable regulations related to clean and healthy air. Governmental bodies and environmental agencies around the world have increasingly recognized the importance of controlling air pollution and improving air quality for public health and environmental sustainability. Wood activated carbon, with its exceptional adsorption properties, has emerged as a key player in achieving these goals.

One of the primary factors driving the wood activated carbon market's growth in relation to clean air regulations is its effectiveness in removing volatile organic compounds



(VOCs) and other air pollutants. VOCs are a class of organic chemicals that can have detrimental effects on air quality and human health. They are emitted from various sources, including industrial processes, vehicular emissions, and household products. Wood activated carbon's porous structure provides a vast surface area for adsorption, enabling it to capture and remove VOCs from the air effectively. This capability aligns with regulations aimed at reducing VOC emissions and improving indoor and outdoor air quality.

Another crucial aspect of wood activated carbon's role in air quality improvement is its contribution to the reduction of odors and harmful gases. In industrial settings, wastewater treatment plants, and municipal solid waste facilities, foul odors and noxious gases are common byproducts that can lead to community complaints and health concerns. Wood activated carbon can be employed in air purification systems to adsorb and neutralize these odors and gases, mitigating their impact on nearby communities. Regulatory agencies often require these facilities to implement odor control measures to comply with clean air standards, thereby driving the demand for wood activated carbon.

Moreover, regulatory frameworks such as the Clean Air Act in the United States and similar laws in other countries have imposed stringent emission limits on industrial processes and power plants. Compliance with these regulations necessitates the use of air pollution control technologies, and activated carbon is frequently used in these systems. Wood activated carbon's eco-friendly nature, derived from renewable wood sources, makes it a preferred choice in compliance with clean air regulations, aligning with the growing emphasis on sustainability.

Furthermore, the global transition toward cleaner energy sources, such as natural gas and renewable energy, has increased the demand for wood activated carbon in air purification applications. For example, the removal of impurities like sulfur compounds from natural gas is crucial to ensure compliance with emission standards. Wood activated carbon is used in gas purification processes to achieve this goal. Similarly, in power generation, wood activated carbon is employed in flue gas treatment systems to capture pollutants like mercury, which are subject to stringent emission limits.

In conclusion, favorable regulations related to clean and healthy air have played a pivotal role in the growth of the wood activated carbon market. Its ability to remove VOCs, control odors and gases, and assist in compliance with stringent air quality standards positions wood activated carbon as a valuable tool in achieving cleaner air. As environmental regulations continue to evolve and expand, and as public awareness of the importance of clean air grows, the wood activated carbon market is poised for

sustained growth and continued innovation in air purification technologies.

## Key Market Challenges

### Environmental Concerns Regarding Deforestation

Environmental concerns regarding deforestation are increasingly obstructing the global wood activated carbon market's growth. Deforestation, driven by agricultural expansion, logging, and urbanization, is leading to the depletion of vital forest resources that serve as the primary raw material for wood activated carbon production. This trend is raising alarms among environmentalists and regulators due to its profound impact on global ecosystems, biodiversity, and climate change.

Deforestation contributes significantly to carbon emissions and disrupts the carbon cycle, exacerbating the problem of global warming. Moreover, the loss of forests reduces the planet's capacity to absorb carbon dioxide, further accelerating climate change. The destruction of natural habitats also threatens countless species, driving biodiversity loss at an alarming rate.

As environmental awareness grows, consumers and industries are demanding more sustainable and eco-friendly alternatives to wood-based activated carbon. This shift in consumer preferences, along with stricter regulations, is compelling industry to explore innovative, sustainable sourcing practices and develop alternative materials. To ensure the long-term viability of the wood activated carbon market, addressing these environmental concerns, and promoting responsible forestry practices are essential steps.

### Availability of Substitute

The global wood activated carbon market is encountering obstacles to its growth primarily due to the availability of substitutes. Activated carbon derived from sources other than wood, such as coconut shells, peat, and coal, has gained prominence due to various advantages. These alternatives often exhibit superior adsorption properties, longer lifespans, and more sustainable sourcing practices, which resonate with environmentally conscious consumers and industries.

Furthermore, the high cost and limited availability of wood resources, combined with concerns about deforestation, have led many companies to seek alternative materials. Coconut shell-based activated carbon, for instance, is widely preferred for its renewable

and abundant source, making it a sustainable choice. The competitive edge of these substitutes is prompting the global wood activated carbon market to adapt and innovate in order to remain relevant.

To counter this challenge and sustain growth, wood activated carbon producers are focusing on research and development, process optimization, and exploring eco-friendly forestry practices. Addressing environmental concerns and delivering a high-quality product will be essential in overcoming the availability of substitutes in the marketplace.

## Key Market Trends

### Green Activated Carbon

One of the key trends driving the growth of the global wood activated carbon market is the increasing demand for 'Green Activated Carbon.' As environmental consciousness continues to rise, consumers and industries are seeking sustainable and eco-friendly alternatives. Green Activated Carbon refers to products that are manufactured using renewable and responsibly sourced wood materials, and produced through environmentally friendly processes.

This trend aligns with the growing awareness of the importance of mitigating climate change and reducing the carbon footprint associated with various industrial applications. Wood activated carbon, when produced sustainably, can offer a greener option compared to alternatives like coal-based activated carbon. Sustainable forestry practices, efficient manufacturing processes, and carbon offset initiatives are becoming integral to the production of wood activated carbon.

In response to this trend, companies within the industry are actively promoting their commitment to sustainability, transparency in sourcing, and eco-friendly production methods. This focus on Green Activated Carbon is not only driving market growth but also fostering a positive environmental impact, making it a win-win for both businesses and the planet.

### Developing New and Improved Ways to Activate Wood Carbon, Such as using Different Chemicals or Activation Processes

A significant trend fueling the growth of the global wood activated carbon market is the continuous development of new and improved methods to activate wood carbon. This involves exploring innovative chemical treatments and activation processes to enhance



the performance and versatility of wood-based activated carbon products.

Researchers and manufacturers are increasingly experimenting with diverse chemical agents, including phosphoric acid, potassium hydroxide, and steam, to modify the activation process. These approaches lead to tailored properties such as increased porosity, higher surface area, and improved adsorption capabilities, making wood activated carbon more efficient in various applications.

Moreover, advancements in activation techniques, such as microwave and microwave-assisted activation, are gaining traction for their ability to produce activated carbon with unique characteristics. These developments are essential for meeting the specific demands of industries such as water treatment, air purification, and energy storage, where wood-based activated carbon can offer sustainable and cost-effective solutions.

As the global market continues to evolve, investments in research and development for innovative activation methods are anticipated to play a pivotal role in driving growth and expanding the applications of wood activated carbon in an environmentally conscious world.

## Segmental Insights

### Form Insights

Based on the form, the powdered segment emerged as the dominant player in the global market for Wood Activated Carbon. Powdered wood activated carbon typically has a very high surface area per unit volume compared to other forms like granular or pelletized. This high surface area is crucial for adsorption processes, as it provides more active sites for the adsorption of impurities and contaminants from liquids and gases. Powdered wood activated carbon is highly versatile and can be easily mixed or suspended in various solutions, making it suitable for a wide range of applications. It can be used in batch processes, continuous flow systems, and in combination with other treatment methods.

Powdered wood activated carbon is often more cost-effective than other forms. Its production process is relatively simpler, and it can be easily regenerated, extending its usability and reducing overall operational costs. The fine particles of powdered wood activated carbon allow for rapid adsorption of contaminants due to their quick diffusion and contact with the target substances. This makes it effective in applications where fast treatment is required.

## End User Insights

The Pharmaceutical & Medical segments are projected to experience rapid growth during the forecast period. The pharmaceutical and medical industries require exceptionally high levels of purity and quality in their products and processes. Wood activated carbon can meet these stringent requirements as it is known for its purity and low levels of impurities. Wood activated carbon is used extensively in pharmaceutical manufacturing for the purification of various substances. It is employed in the removal of impurities, colorants, and odor-causing compounds from pharmaceutical ingredients, ensuring the final product meets pharmaceutical-grade standards.

Wood activated carbon is utilized in medical and healthcare applications, such as wound dressings and medical filters. In these applications, the adsorptive properties of wood activated carbon are crucial for removing toxins, bacteria, and odors, thereby enhancing patient comfort and safety. Wood activated carbon is a critical component in hemodialysis machines and blood purification systems. It helps remove uremic toxins and other impurities from the blood during the dialysis process, making it an indispensable component in kidney disease treatment.

## Regional Insights

The Asia-Pacific (APAC) region has emerged as the dominant player in the Non-Woven Adhesive Market, the driving forces behind this dominance are multifaceted, with rapid industrialization leading the charge. As countries across the region experience exponential industrial growth, the demand for wood activated carbon has surged, particularly in industries related to food and beverages. This sector, in particular, has recognized the unparalleled potential of wood activated carbon in enhancing the quality and safety of products, propelling market growth.

In parallel, North America is anticipated to exhibit substantial growth, underpinned by stringent regulations that mandate the maintenance of stringent standards for clean potable water. These regulations have spurred industries to invest in advanced purification technologies, where wood activated carbon plays a pivotal role in achieving compliance.

Meanwhile, Europe is also poised for significant growth, primarily fueled by escalating demand in surface and water treatment applications. European nations are increasingly prioritizing sustainable solutions to address water quality challenges, propelling the

adoption of wood activated carbon.

However, in contrast, Latin America and the Middle East & Africa regions are expected to experience relatively sluggish growth by the end of the forecast period, primarily due to factors such as economic constraints and less stringent regulations. Nevertheless, the overall outlook for the global wood activated carbon market remains promising, with Asia-Pacific at the forefront of this transformative journey.

### Key Market Players

D&R Corporation

H Acuro Organics Ltd

Chemtex Speciality Ltd

EUROCARB

Induc ceramic

Jacobi Carbons

Kuraray Co., Ltd

Fujian Zhixing Activated Carbon Co.Ltd.

Cabot Corporation

### Report Scope:

In this report, the Global Wood Activated Carbon Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Wood Activated Carbon Market, By Form:

Granular

Powdered

## Wood Activated Carbon Market, By Application:

Decolorization

Fluid Adsorption

Purification

## Wood Activated Carbon Market, By End User:

Air Purification

Automotive

Food & Beverage Processing

Pharmaceutical & Medical

Water Treatment

## Wood Activated Carbon Market, By Region:

Asia-Pacific

China

India

Japan

Australia

South Korea

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global Wood Activated Carbon Market.

## Available Customizations:

Global Wood Activated Carbon market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).



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