

# Activated Carbon Market Estimated to Reach \$7.0 billion by 2028 – Exclusive Report by MarketsandMarkets™

*The activated carbon market size is estimated to be USD 4.4 billion in 2023, and it is projected to reach USD 7.0 billion by 2028 at a CAGR of 9.5%.*

CHICAGO, ILLINOIS, UNITED STATES, July 14, 2023 /EINPresswire.com/ -- The report "[Activated Carbon Market](#) by Type (Powdered Activated Carbon, Granular Activated Carbon), Application (Liquid Phase Application, and Gas Phase Application), End-Use Industry, Raw Material and Region - Global Forecast to 2028", is approximated to be USD 4.4 billion in 2023, and it is projected to reach USD 7.0 billion by 2028 at a CAGR of 9.5%. Activated carbon, also known as activated charcoal, is a highly porous material with a large surface area that

is commonly used in a wide range of applications, such as air and water purification, gas processing, chemical purification, and others. It is produced by heating carbon-rich materials, such as wood, coal, or coconut shells, etc., to high temperatures in the absence of oxygen, which creates a network of tiny pores and cavities in the material.

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526– Tables

46– Figures

313– Pages

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The market of activated carbon has been segmented based on the type, i.e. powdered activated



carbon, granular activated carbon, and others. Powdered activated carbon (PAC) is a fine black powder made from activated carbon that has been pulverized into particles of a specific size range. PAC particles typically range in size from 3 to 100 microns, with smaller particles providing a greater surface area for adsorption but also requiring additional treatment steps to remove the particles from the treated water or other substances. Granular activated carbon (GAC) is a highly porous, carbon-based material that is commonly used for water and air purification, as well as in various industrial applications. It is produced by heating carbon-rich materials, such as coconut shells, coal, wood, etc., to high temperatures in the absence of oxygen, which creates a network of tiny pores and cavities in the material. Apart from PAC, & GAC, there are other types of activated carbon that are also used in the end-use industry, such as pelletized activated carbon, bead-type activated carbon, and impregnated activated carbon.

The activated carbon market is segmented based on applications. Activated carbon can be used in two different application segments such as liquid phase application, and gas phase application. In liquid phase application, activated carbon is used for potable water treatment, groundwater treatment, decolorization, industrial water treatment, precious metal (gold) recovery, and chemical & pharmaceutical wastewater treatment. On the other side, in gas phase application, activated carbon is used to adsorb harmful gases, airborne dust, pollutants, and odors, which can be generated either from industrial activities or from automobiles.

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On the basis of end-use industries, activated carbon is segmented into different end-use industries such as water treatment, food & beverage, pharmaceutical & medical, automotive, industrial, and others. In the water treatment industry, activated carbon is used to eliminate chlorine and organic compounds to make the wastewater suitable for discharge in water bodies. In Food & Beverage industry, activated carbon is used to remove impurities and decolorize food ingredients. It is widely used in the color removal of food products while producing food, oils, and other edible products. In the Pharmaceutical & Medical industry, it is used to treat poisoning and overdose following oral ingestion. It is also used to remove contaminants like chlorine and chloramine that can be harmful to the patient from the water used for the dialysis process. Apart from this, it is also used in removing impurities from raw materials and finished pharmaceutical products during the production process. In the automotive industry, it is used in air filters through which the air can be passed in the purified form, to the cabin of the vehicle. It is also used to control the harmful vehicular emissions. In a similar way, activated carbon is also used to purify the air, and the solvent recovery process, in any industrial application. Electronic and mining industries are the other industries where activated carbon is used. In the electronics industry, it is used in supercapacitors and hard disks.

The activated carbon is segmented on the basis of raw materials such as coal, coconut, wood, peat, and others. Coal-based activated carbon is a type of activated carbon that is produced from coal through a process of activation. It is relatively inexpensive as compared to other activated carbons. Coconut-based activated carbon is a type of activated carbon that is produced

from coconut shells through a process of activation. It is a sustainable and environmentally friendly alternative to coal-based activated carbon. Wood-based activated carbon is produced from specific types of wood and sawdust. This type of carbon is made by either steam or phosphoric acid activation. Peat-based activated carbon is derived from peat, a dark, organic material formed from the partial decomposition of plants. Other raw materials used for activated carbon include oil carbon, phenolic resin, wall-nut, olive apricot, peach, mango, avocado, almond, hazelnut, palm kernels, etc.

The activated carbon market is studied in five regions, namely, Asia Pacific, Europe, North America, the Middle East & Africa, and South America. Asia Pacific is the fastest-growing market of activated carbon globally. This is attributed to the rise in urbanization, and industrialization, which led to the demand for clean air and water. However, apart from this, stringent environmental norms and the growing food & beverage industry also drive the market of activated carbon in the forecast period.

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Some of the leading companies involved in the manufacturing of activated carbon are Kuraray Co., Ltd.(Japan), Osaka Gas Chemicals Co. Ltd. (Japan), Haycarb Pvt. Ltd.(Sri Lanka), Norit (Netherlands), and Kureha Corporation (Japan), and others are covered in the specialty activated carbon market. These players have adopted various growth strategies to strengthen their position in the market. These include product launches, contracts, partnerships, mergers and acquisitions, and new product development activities further to expand their presence in the activated carbon market.

Kuraray Co., Ltd. (Japan) is a publicly traded, and engaged in the production of a wide range of resins, high-performance materials, fibers, medical products, synthetic rayon, and activated carbon, with its headquarters in Tokyo, Japan. The company has 5 reportable segments such as Vinyl acetate, Functional materials, trading, isoprene, fibers, and textile. The company has a strong global presence in Asia Pacific, North America, South America, and Europe, to cater to the demands of the products.

Osaka Gas Chemicals Co. Ltd. (Japan) is a Japan-based manufacturing firm, which sells its products and services in the field of energy, fine materials, and carbon products. The company operates through three business segments such as Domestic energy, Life & Business Solutions, and International Energy. The company has a strong foothold in North America, Europe, and Asia Pacific and serves its customers effectively.

Haycarb Pvt. Ltd. (Sri Lanka) is a leading coconut shell based activated carbon manufacturer and marketer. It operates through Activated Carbon, Water, Air & Gas, Food & Beverages, Energy, Gold, Specialty, Environmental Engineering, Purification Associate, and Leisure Associate segments. The company manufactures a complete range of standard, washed, and impregnated

granular-activated, powder-activated, and extruded-pellet-activated carbon for a full spectrum of applications in water treatment, air treatment, gold recovery, food and beverage industry, energy storage, and others.

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Contact:

Mr. Aashish Mehra

MarketsandMarkets™ INC.

630 Dundee Road

Suite 430

Northbrook, IL 60062

USA: +1-888-600-6441

Email: [sales@marketsandmarkets.com](mailto:sales@marketsandmarkets.com)

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MarketsandMarkets Research Pvt Ltd

MarketsandMarkets™ INC.

+ +1 888-600-6441

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