

Pelletized Activated Carbon Market Trends Driving Growth from US\$ 5.0 Billion to US\$ 8.3 Billion by 2031 | TMR Research

Pelletized Activated Carbon Market is estimated to grow at a CAGR of 5.8% from 2023 to 2031 and reach US\$ 8.3 Bn by the end of 2031.

WILMINGTON, DE, UNITED STATES, December 16, 2024 /EINPresswire.com/ -- Pelletized activated



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carbon (PAC) is a type of activated carbon shaped into cylindrical pellets, offering high surface area and efficient adsorption properties. These features make it ideal for a variety of applications, including water and air purification, industrial processes, and the removal of contaminants such as volatile organic compounds (VOCs) and harmful gases. The compact form and high mechanical strength of pelletized activated carbon enhance its handling and regeneration capabilities, driving its adoption across

industries.

The global [pelletized activated carbon market](#) caters to industries including water treatment, air purification, food and beverage, and chemicals. Key drivers of market growth include stringent environmental regulations, increasing demand for clean water and air, and rising industrialization in emerging economies. The market is segmented based on application, raw material, and geography. It is estimated to grow at a CAGR of 5.8% from 2023 to 2031 and reach US\$ 8.3 Bn by the end of 2031.

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Key Drivers

Stringent Environmental Regulations: Regulatory standards for industrial emissions and water quality, such as those set by the EPA and European Union, are fueling the demand for pelletized activated carbon.

Increasing Focus on Air and Water Quality: Growing concerns over pollution, climate change, and

public health are driving investments in air and water purification systems.

Industrial Growth in Emerging Economies: Rapid industrialization in regions like Asia-Pacific and Latin America is increasing demand for industrial wastewater treatment and air purification systems.

Expanding Applications: Pelletized activated carbon is finding new uses in pharmaceuticals, automotive emission control, and solvent recovery systems.

Advancements in Carbon Regeneration: Innovations in regeneration technologies are improving cost efficiency, promoting its adoption in applications where reuse is crucial.

Recent Trends

Adoption of Biomass-Based Activated Carbon: A shift toward using renewable feedstocks like coconut shells, wood, and agricultural residues to produce pelletized activated carbon is emerging.

Focus on Mercury Control: Industries are increasingly using PAC for mercury removal from flue gas, especially in power plants and cement manufacturing facilities.

Technological Innovations: Enhanced production techniques, such as steam activation, are improving adsorption efficiency and reducing production costs.

Rising Use in Energy Storage: PAC is gaining attention in advanced battery technologies and supercapacitors due to its conductivity and large surface area.

Circular Economy Initiatives: Efforts to recycle spent activated carbon are gaining traction, aligning with sustainability goals.

Top Companies:

Calgon Carbon Corporation

Evoqua Water Technologies LLC

Siemens Water Technologies Corp

Cabot Corporation

Carbon Activated Corporation

MeadWestvaco Corporation

Carbon Resources LLC

Clarinex Group

Carbotech AC GmbH

JACOBI CARBONS GROUP

CarbPure Technologies

Boyce Carbon

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Future Outlook

The pelletized activated carbon market is poised for steady growth, driven by increasing demand for water treatment and air purification solutions. Asia-Pacific is expected to dominate the market, owing to rapid industrialization, urbanization, and regulatory efforts to combat pollution. North America and Europe are also significant markets, backed by stringent environmental standards and advancements in industrial applications.

Sustainability and cost reduction will be key focus areas for market players, with innovations in raw materials and recycling processes driving long-term growth. Emerging applications, such as in energy storage and carbon capture, present additional growth opportunities.

Market Segmentation

Raw Material

- Coal
- Wood
- Coconut Shell
- Lignite
- Bamboo
- Paddy Husk
- Others

Pellet Size

- 1mm to 3mm
- 3mm to 5 mm
- More than 5mm

Application

- Water & Wastewater Treatment
- Air & Gas Treatment
- Mercury Removal
- Catalyst
- Metal Recovery
- Filter

Others

End-use

Automotive

Food & Beverage

Pharmaceutical

Chemical

Agriculture

Power

Mining

Oil & Gas

Others

Regions

North America

Europe

Asia Pacific

Middle East & Africa

South America

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