

Activated Carbon Fiber Market Report by Raw Material (Synthetic, Natural), Application (Water Treatment, Food and Beverage Processing, Pharmaceutical and Medical, Automotive, Air Purification, and Others), and Region 2024-2032

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Abstracts

The global activated carbon fiber market size reached US\$ 437.6 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 746.9 Million by 2032, exhibiting a growth rate (CAGR) of 5.94% during 2024-2032.

Activated carbon fiber (ACF) refers to a modified form of fibrous microporous absorbent material that is manufactured by pre-treating, stabilizing, carbonizing, and activating precursor structures. Some standard raw materials employed during the procedure include cellulose, polyacrylonitrile, phenolic resin, petroleum-based pitch fibers, and synthetic polymers. ACF has low microporosity during production, offers a large-specific surface area, allows an excessive amount of absorption, reduces pressure loss, and generates little carbon dust to clear toxic water. Along with this, it provides high stiffness, tensile strength, density packaging, and excellent volumetric capacity; therefore, it finds extensive applications in water filters, surface treatment liquid cleaning, and purification of polluted gaseous streams.

Activated Carbon Fiber Market Trends:

Rapid industrialization and the increasing need for purified water in various residential and commercial complexes are currently driving the market growth. ACF is used to treat and purify polluted water containing several solid, semisolid, liquid, and gaseous pollutants. This is further influenced by the rising consumer awareness regarding the availability and advantages of wastewater treatment. Furthermore, the implementation of several sustainable practices by regulatory bodies has supplemented the

employment of ACF to neutralize odor, prevent dust particles, and deal with ozone pollution caused by cooling systems, which is supporting the market growth. In line with this, ACF possesses excellent nitrogen oxide removal capacity, enabling the product to inherently oxidize (NO_x) to convert nitrate ions, which is acting as another growth-inducing factor. In line with this, the escalating prevalence of chronic kidney diseases is promoting the uptake of ACF for patient dialysis with end-stage renal illness, which is also propelling the market growth. Apart from this, the extensive utilization of ACF in chemical separation and catalysis and supercapacitors and protective clothing and strategic collaborations amongst key players are positively augmenting the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global activated carbon fiber market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on raw material and application.

Breakup by Raw Material:

- Synthetic
 - Pitch-Based
 - PAN-Based
 - Phenolic-Based
 - Viscose-Based
- Others
- Natural

Breakup by Application:

- Water Treatment
- Food and Beverage Processing
- Pharmaceutical and Medical
- Automotive
- Air Purification
- Others

Breakup by Region:

- North America

United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Anshan Sinocarb Carbon Fibers Co. Ltd., Awa Paper & Technological Co. Inc., Evertech Envisafe Ecology Co. Ltd., Hangzhou Nature Technology Co. Ltd., HPMS Graphite Solutions, Jiangsu Tongkang Activated Carbon Fiber Co. Ltd., Kuraray Co. Ltd., Nantong Yongtong Environmental Technology Co. Ltd., Osaka Gas Chemicals Co. Ltd. (Osaka Gas Co. Ltd.), Toyobo Co. Ltd. and Unitika Ltd.

Key Questions Answered in This Report

1. What was the size of the global activated carbon fiber market in 2023?
2. What is the expected growth rate of the global activated carbon fiber market during 2024-2032?
3. What are the key factors driving the global activated carbon fiber market?
4. What has been the impact of COVID-19 on the global activated carbon fiber market?

5. What is the breakup of the global activated carbon fiber market based on raw material?
6. What is the breakup of the global activated carbon fiber market based on the application?
7. What are the key regions in the global activated carbon fiber market?
8. Who are the key players/companies in the global activated carbon fiber market?

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