

# Activated Carbon Fiber Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

### Market Overview:

The global activated carbon fiber market size reached US\$ 409.7 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 611.5 Million by 2028, exhibiting a growth rate (CAGR) of 6.8% during 2023-2028.

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 (NOx) 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 2023-2028. 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:

How has the global activated carbon fiber market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global activated carbon fiber market?

What are the key regional markets?

What is the breakup of the market based on the raw material?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global activated carbon fiber market and who are the key players?

What is the degree of competition in the industry?

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