

Global Activated Carbon Filters Market Size study & Forecast, by Type (Stainless steel shell, Carbon steel shell, Others), by Application (Industrial water pollution treatment, Drinking water purification, Food & beverage, Pharmaceutical, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Activated Carbon Filters Market is valued at approximately USD 291.01 million in 2022 and is anticipated to grow with a healthy growth rate of more than 4.4% during the forecast period 2023-2030. Activated Carbon Filters are a type of air and water purification technology designed to remove impurities and contaminants from these mediums. Activated carbon is a porous form of carbon with a high surface area, which makes it effective for adsorbing various pollutants. The Activated Carbon Filters Market is expanding because of factors such as increasing rate of urbanization and rising demand for water and wastewater treatment. Activated carbon filters are commonly used in both residential and industrial settings for air and water purification. As a result, the demand for Activated Carbon Filters has progressively increased in the international market during the forecast period 2023-2030.

Urban areas tend to face challenges related to air quality due to factors like vehicular emissions, industrial discharges, and construction activities. Activated carbon filters play a crucial role in addressing indoor air quality concerns, especially in densely populated urban environments where people spend a significant amount of time indoors. According to Statista, the global urbanization rate accounts for 57% in 2022. North America has the highest amount of urbanization, with more than four-fifths of the population living in cities. Another important factor that drives the Activated Carbon Filters market is the increasing demand for water and wastewater treatment.

Governments and environmental regulatory bodies worldwide are imposing stricter water quality standards to protect public health and the environment. Activated carbon filters are recognized for their ability to meet these standards by efficiently removing a wide range of waterborne pollutants, including chemicals, organic compounds, and contaminants. In addition, as per Statista, the global water and wastewater treatment industry was estimated at USD 301.7 billion in 2022 and expected to reach up to USD 536.4 billion by the year 2030. Moreover, rising gas separation in newly developed activated carbon filter applications and stringent regulations by environmental agencies on industrial discharge are anticipated to create a lucrative growth opportunities for the market over the forecast period. However, the high cost associated with activated carbon filters and the lack of raw materials are going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Activated Carbon Filters Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the increasing population and growing industrialization in the region. The growing population places greater pressure on water resources, and industrial activities contribute to water pollution. Activated carbon filters play a crucial role in water treatment by removing contaminants, organic compounds, and chemicals, ensuring a safe and clean water supply for both industrial processes and public consumption. The region's dominant performance is anticipated to propel the overall demand for Activated Carbon Filters. Furthermore, Asia Pacific is expected to grow fastest during the forecast period, owing to factors such as rising production in the food and steel industries in the region. Steel production processes often involve high-temperature operations, which can result in the emission of various pollutants and Volatile Organic Compounds (VOCs). Activated carbon filters are effective in capturing and removing these airborne contaminants, helping steel plants comply with environmental regulations and reduce their environmental impact.

Major market player included in this report are:

TIGG LLC

Puragen Activated Carbons

Cabot Corporation

WesTech Engineering Inc

Kuraray Co., Ltd

Lenntech B.V.

Donau Carbon GmbH

General Carbon Corporation

Sereco S.R.L

Carbtrol Corporation

Recent Developments in the Market:

In March 2022, Metso Outotec introduced the Activated Carbon (AC) filter, which enables efficient recovery and recycling of key battery chemicals. Metso Outotec's Planet Positive portfolio includes energy- and water-efficient AC filter, which addresses the market's growing demand for sophisticated and sustainable battery metals processing technologies. The modular AC filtering method is intended for smaller side streams containing copper and other metal-loaded water streams. It is ideal for efficient organics removal before the electrowinning and crystallisation procedures. The AC filter is compatible with both greenfield and brownfield installations, as it follows the Metso Outotec DM filter product family's well-proven design and operational philosophy.

Global Activated Carbon Filters Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type

Stainless steel shell

Carbon steel shell

Others

By Application

Industrial water pollution treatment

Drinking water purification

Food & beverage

Pharmaceutical

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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