

Macrofiltration Market Report by Product (Granular Micro Filter, Filter Press Filter, Leaf Tubular and Press Filter, Bag Filter, Belt Filter Press, Auto Backwash Filters, and Others), Industry Vertical (Water and Wastewater, Chemical and Pharmaceutical, Mining and Metal, Food and Beverage, Paper and Pulp, and Others), and Region 2024-2032

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Abstracts

The global macrofiltration market size reached US\$ 7.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 11.6 Billion by 2032, exhibiting a growth rate (CAGR) of 5.13% during 2024-2032. The increasing demand for macrofiltration in the water and wastewater treatment industry and the rising application of macro filters in the production of antibiotics, vaccines, and various other pharmaceutical products are primarily driving the growth of the market.

Global Macrofiltration Market Analysis

Major Market Drivers: The expanding pharmaceuticals industry is one of the primary factors driving the market growth. In addition to this, the implementation of stringent government regulations, laws, and guidelines for reducing and reusing wastewater is acting as another growth-inducing factor.

Key Market Trends: The rising adoption of granular microfilter membranes that are specifically designed to separate sediments, algae, and large pathogens from liquids represents one of the key trends augmenting the market growth. Moreover, the escalating demand for macrofiltration from the metal and mining industry to dewater fine coal and tailings and separate solids from the liquid in an ore concentration is also contributing to the global market.

Geographical Landscape: On a regional level, the market has been classified into North

America, Asia-Pacific, Europe, Latin America, and the Middle East and Africa. According to the macrofiltration market research report by IMARC, North America currently dominates the global market. This can be attributed to the rising expenditure capacities of key players on research and development activities and the increasing technological advancements in macro filters.

Competitive Landscape: Some of the key players operating in the global macrofiltration market include Amiad Water Systems, Ascension Industries Inc., Mann+Hummel, MTB Technologies Sp. Z O.O., Ostwald Filtration Systems GmbH, Pall Corporation (Danaher Corporation), Parker Hannifin Corporation, Pentair plc, and SUEZ - Water Technologies & Solutions (Veolia Environnement S.A), among many others.

Challenges and Opportunities: The macrofiltration market faces challenges in complying with stringent environmental regulations implemented by government bodies, which require more efficient and cost-effective filtration solutions. However, this also presents an opportunity for companies to innovate and develop advanced macrofiltration technologies that can meet these regulatory requirements. Additionally, the growing awareness towards water scarcity issues globally is driving the demand for macrofiltration solutions, thereby creating a positive outlook for companies in this sector.

Global Macrofiltration Market Trends:

Increasing Awareness and Regulations for Water Safety

The growing concerns regarding water safety are primarily driving the demand for efficient water filtration solutions, which is propelling the global macrofiltration market. Various government authorities across the world are introducing initiatives to clean water bodies and control elevating water pollution levels. For instance, initiatives, such as the National Mission for Clean Ganga (Namami Gange) and the Jal Jeevan Mission by the Indian government, have spurred investments in water treatment infrastructures, thereby bolstering the market growth. Similarly, the Safe Drinking Water Act (SDWA), passed by the US government, outlines the standards for drinking water quality and monitors states, local authorities, and water suppliers who enforce those standards. In addition to this, various market players are launching innovative technologies and investing in R&D activities for water protection and safety. For instance, the Department of Science & Technology (DST) initiatives encourage national and cooperative developmental research to solve current and future water concerns.

Rising Product Utilization in the Pharmaceutical Sector

The escalating use of macrofiltration in the pharmaceutical industry for several purposes, including clarification of liquids, removal of particulate matter, and sterilization

of process streams, is catalyzing the macrofiltration market growth. It is a critical step for ensuring the quality and safety of vaccines, antibiotics, and other pharmaceutical products. Moreover, the rising demand for vaccine development and manufacturing, especially during the pandemic, has increased the adoption of macrofiltration solutions. In line with this, according to the NCBI research study published in April 2021, new purification and filtration methods were streamlined for vaccine manufacturing to scale up production during the COVID-19 pandemic. The same source also stated that researchers at the Michigan Technological University created new processes to improve the purification and filtration step, which accounts for 50.0% to 70.0% of a vaccine's manufacturing costs. Consequently, a such rise in initiatives encouraging vaccinations propels vaccine production, which, in turn, is escalating the demand for macrofiltration solutions. Besides this, according to the data published by the Congressional Budget Office, in 2021, it was observed that the pharmaceutical industry had spent approximately US\$ 200 Billion on research and development in 2020 globally as compared to US\$ 83 Million in 2019. Thus, the extensive investments in R&D activities by companies are further augmenting the capabilities of the pharma companies to adopt innovative technologies and filtration systems, thereby fueling the market growth.

Growing Focus on Reducing Food Contamination

The rising application of macrofiltration solutions in the food and beverage (F&B) industry to minimize food contamination is propelling the growth of the market. Macrofiltration solutions are utilized to reduce the contamination of food products due to active microorganisms present in them. Apart from this, macrofiltration membranes are also adopted to separate proteins from dairy products. For instance, high-quality whey protein concentrates and isolates can be separated in milk products by using macrofiltration membranes in the last stage of fat and microbial removal. These solutions are gaining extensive traction among food and beverage companies, as they are a cost-effective solution for the separation of valuable whey and casein proteins from milk. Moreover, the escalating demand for whey protein is anticipated to drive the market for macrofiltration in the coming years.

Global Macrofiltration Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global macrofiltration market report, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on the product and industry vertical.

Breakup by Product:

Granular Micro Filter
Filter Press Filter
Leaf Tubular and Press Filter
Bag Filter
Belt Filter Press
Auto Backwash Filters
Others

Granular micro filter currently exhibits clear dominance in the market

The report has provided a detailed breakup and analysis of the market based on the product. This includes granular micro filter, filter press filter, leaf tubular and press filter, bag filter, belt filter press, auto backwash filters, and others. According to the report, granular micro filter currently exhibits clear dominance in the market.

Granular filtration is a type of filtration process that uses a bed of granular media, such as sand, anthracite, or activated carbon, to remove impurities from a fluid (liquid or gas). Granular filtration is also commonly adopted in water treatment, wastewater treatment, air purification, and various industrial processes to remove suspended solids, turbidity, microorganisms, and other contaminants from the fluid.

Breakup by Industry Vertical:

Water and Wastewater
Chemical and Pharmaceutical
Mining and Metal
Food and Beverage
Paper and Pulp
Others

The water and wastewater industry holds the largest market share

The report has provided a detailed breakup and analysis of the market based on the industry vertical. This includes water and wastewater, chemical and pharmaceutical, mining and metal, food and beverage, paper and pulp, and others. According to the report, the water and wastewater industry holds the largest market share.

The growing concerns among individuals regarding water safety are primarily bolstering

the applications of macrofiltration solutions in water and wastewater management. Moreover, the sustainable development goals of the UN aim to improve water quality by reducing increasing pollution levels, eliminating dumping, and minimizing the release of hazardous chemicals and materials, thereby promoting recycling globally. Such initiatives are further catalyzing the utilization of macro filters in wastewater applications.

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

North America currently dominates the global market

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America

(Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

North America holds a significant market share in the macrofiltration market. This can be attributed to the rising research and development expenditure capacities and the increasing technological advancements in macro filters. Besides this, government and water regulatory authorities are investing in advanced macrofiltration solutions for water safety and cleaning, which is primarily contributing to the region's growth. Additionally, pharmaceutical companies present in North America are also focusing on launching novel filtration technologies, which are stimulating the regional market. For instance, as per the annual reports in 2021, the 3M company invested US\$ 1.994 Billion in its research and development as compared to US\$ 1.878 Billion in 2020. In addition, another company, Danaher Corporation, invested US\$ 1,742 Million in its research and development in 2021, as compared to US\$ 1,348 Million in 2020. The increasing investments are driving the adoption of new technologies in filtration systems, which provide better accuracy and reduce fouling parameters, thereby fueling the market growth in North America.

Competitive Landscape:

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Amiad Water Systems

Ascension Industries Inc.

Mann+Hummel

MTB Technologies Sp. Z O.O.

Ostwald Filtration Systems GmbH

Pall Corporation (Danaher Corporation)

Parker Hannifin Corporation

Pentair plc

SUEZ - Water Technologies & Solutions (Veolia Environnement S.A)

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Global Macrofiltration Market News:

June 2023: Metso signed a contract worth more than ?10 Million with Sinosteel Corporation for the delivery of seven Larox FFP2512 pressure filtration units to

Tosyali's iron concentrator plant expansion in Algeria.

January 2023: The new backwash water filter system plant was installed at the Khusro Bagh water treatment plant in Prayagraj. The system can convert even unused sludge left after filtration at the plant into drinking water.

Key Questions Answered in This Report

1. How big is the global macrofiltration market?
2. What is the expected growth rate of the global macrofiltration market during 2024-2032?
3. What are the key factors driving the global macrofiltration market?
4. What has been the impact of COVID-19 on the global macrofiltration market?
5. What is the breakup of the global macrofiltration market based on the product?
6. What is the breakup of the global macrofiltration market based on the industry vertical?
7. What are the key regions in the global macrofiltration market?
8. Who are the key players/companies in the global macrofiltration market?

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