

# **Membrane Filtration Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F. Segmented By Type (Reverse Osmosis, Microfiltration, Nanofiltration, Forward Osmosis and Ultrafiltration), By Module Design (Spiral Wound, Tubular Systems and Plate & Frame and Hollow Fibre), By Membrane Material (Ceramic and Polymeric), By End-Use (Alcoholic Beverages, Non-Alcoholic Beverages, Dairy Products, Food & Beverages, Sugar, Bakery, Others), By Application (Protein Processing, Nutraceutical Processing, Color Reduction, Concentration, pH Balancing, Others) By Region, Competition**

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## **Abstracts**

Global Membrane Filtration Market is predicted to thrive during the forecast period 2024- 2028. Due to increasing environmental restrictions on the discharge of untreated wastewater, the global market for membrane separation technology is anticipated to expand at a high rate during the forecast period. Moreover, growing usage of membrane separation technology in the dairy processing and beverage industries is anticipated to boost market expansion over the forecast period.

Due to increasing environmental restrictions on the discharge of untreated wastewater, the global market for membrane separation technology is anticipated to expand at a high rate during the forecast period. Moreover, growing usage of membrane separation

technology in the dairy processing and beverage industries for advance filtration is anticipated to boost market expansion over the forecast period.

A rapidly growing aspect in water treatment is membrane filtration. There are numerous types of filters that come in a variety of particle diameters and arrangements. The removal of relatively big particle material to the removal of dissolved chemicals are only a few of the many potential uses for membrane filtering. A membrane is a thin, semi-permeable sheet of material that may separate pollutants according to their chemical and physical properties. Moreover, Membranes for liquid filtration are used for tasks including removing biomass for food, removing bacteria from treated municipal water, treating waste-water, filtering circulating water, and concentrating slurries.

The market is anticipated to be driven by the growing implementation of membrane separation technology across numerous end-use industries to limit the emission of hazardous effluents. Additionally, a number of government initiatives and several other relevant organizations, including the National Science Foundation (NSF), Energy & Environmental Affairs (EEA), American Society for Testing & Materials (ASTM), European Environment Agency (EEA), and Environmental Protection Agency (EPA), are anticipated to have a positive effect on the market's expansion.

### Rising Demand for Water Treatment is Fuelling the Market Growth

Over the last decade, the demand for water treatment techniques has increased sharply. The lack of good drinking water is one of the main causes of the increase in demand. The use of water treatment procedures has been driven by the acceleration of water resource depletion brought on by increasing population and contamination of ground and surface water bodies. Due to capacity constraints & financial constraints, and the inability to execute high-intensity water filtration, municipal corporations do not expose the water they supply to households to extensive treatment procedures, due to which the use of the membrane filtration has grown. This trend is prevalent in developing areas like Central & South America and Asia Pacific. In recent years, these areas have experienced both tremendous population increase and significant industrialization. Similar trends are anticipated to continue in the near future for them as well. High demand for water filters and filtration systems is anticipated due to a lack of pure water.

Moreover, environmental issues and strict regulatory framework are predicted to have a major impact on how the industry grows soon. The water filtration business is expected to benefit from government rules and policies that control water treatment for home and

industrial wastewater, which will increase demand for membrane separation technology. Industry participants have been compelled by such rules and regulations to make significant investments in water treatment technologies.

### Growing Preference for Reverse Osmosis In Desalination Application is Driving the Market Growth

Due to changed rainfall patterns and overuse of groundwater and surface water resources, the world is currently experiencing water scarcity on a scale never seen before. Desalination of seawater has become a practical solution to reduce the gap between water supply and demand, particularly for meeting home and municipal needs. Saudi Arabia, the UAE, and Bahrain are among the Gulf Cooperation Council (GCC) nations that rely heavily on seawater desalination to meet their daily water needs. The GWI Desal statistics showed that there were 18,426 desalination operations spread over 150 different nations. According to reports, these facilities produce 87 million cubic meters of clean water daily, providing water to over 300 million people. Thermal distillation has been used historically to desalinate seawater. Two of the most popular thermal desalination methods for seawater desalination are multi-effect distillation (MED) and multi-stage flash (MSF). However, the two main barriers to the widespread use of seawater desalination were its low recovery rate and high energy consumption. The market dynamics have now altered in favor of seawater reverse osmosis (SWRO) technology due to the quick advancement in reverse osmosis (RO) membrane technology and significant reduction in RO modules. This increases the demand for global membrane filtration market.

### Market's growth Will be Accelerated by Low Energy Costs and Rising Demand for Filtration

Low energy costs and an increase in the demand for industrial filtering for better processing are driving the membrane filtration industry. It works effectively with a variety of gases, including air, and is an efficient method for cryopreserving material that is sensitive to heat. It acts as a fence and removes dangerous microorganisms from the liquid or gas, rather than eradicating them. Membrane filtration is often used in large-scale industrial applications. It is primarily used to separate minute particles from solutions. This method differs from others in specific aspects, including its resistance to bacterial attacks, severe chemical conditions, and increasing temperature.

The procedures have the potential to contaminate the membrane and reduce penetration flow. Membrane filters require expensive production and maintenance.

Because of the high flow rates employed, membrane filters require periodic maintenance, which could destroy the shear-sensitive material. Large pore membranes can cause problems and function badly if the production process is not well managed.

#### Increasing Dairy Applications Will Fuel the Market's Expansion for Membrane Filters:

Whey protein powder with a protein concentration of 35% to 85% can be produced with the aid of ultrafiltration separation. The manufacturing of fresh cheese, protein standardization of cheese milk, lactose reduction in milk, and decalcification of permeates and powders are just a few of the many dairy applications for ultrafiltration. Dairy producers have taken an interest in UF, which is expected to drive the expansion of the membrane filtering market in the near future.

#### Technological Advancement:

The market for membrane filtration is anticipated to benefit in the next years from technological developments, such as in ceramic membranes, that could boost manufacturing efficiency. Consumer demand for ceramic membrane filtering technologies may increase over the future years as it has chemical and thermal stability, narrow pore size distribution, high porosity, high flux, mechanical strength (enabling back flushing), microbiological resistance, and long lifetime. Moreover, future demand for reverse osmosis technology may be strong since it makes it simple to remove hardness and hazardous substances from water.

#### Market Segmentation

On the basis of type, the market is segmented into type, module design, membrane material, end-use, and application. On the basis of type, the market is segmented into Reverse Osmosis, Microfiltration, Nanofiltration, Forward Osmosis and Ultrafiltration. On the module design, the market is further segmented into Spiral Wound, Tubular Systems and Plate & Frame and Hollow Fibre. Based on membrane material, the market is Ceramic and Polymeric. Based on end-use, the market is segmented into Alcoholic Beverages, Non-Alcoholic Beverages, Dairy Products, Food & Beverages, Sugar, Bakery, and Others. On the basis of application, the market is segmented into Protein Processing, Nutraceutical Processing, Color Reduction, Concentration, pH Balancing, and Others. Based on region, the market is divided among North America, Europe, Asia-Pacific, South America, and Middle East & Africa.

#### Company Profiles

Merck KGaA, Toray Industries, Inc, Pentair plc, Hydranautics, AXEON Water Technologies, GEA Group Aktiengesellschaft, Hyflux Ltd., 3M Company, Suez SA, Pall Corporation are among the major players that are driving the growth of the global Membrane Filtration Market.

#### Report Scope:

In this report, the global Membrane Filtration Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Membrane Filtration Market, By Type:

Reverse Osmosis

Microfiltration

Nanofiltration

Forward Osmosis

Ultrafiltration

#### Membrane Filtration Market, By Module Design:

Spiral Wound

Tubular Systems

Plate & Frame

Hollow Fibre

#### Membrane Filtration Market, By Membrane Material:

Ceramic

Polymeric

### Membrane Filtration Market, By End-Use:

- Alcoholic Beverages
- Non-Alcoholic Beverages
- Dairy Products
- Food & Beverages
- Sugar
- Bakery
- Others

### Membrane Filtration Market, By Application:

- Protein Processing
- Nutraceutical Processing
- Color Reduction
- Concentration
- pH Balancing
- Others

### Membrane Filtration Market, By Region:

- North America
  - United States
  - Canada

Mexico

Asia-Pacific

China

Japan

India

Australia

South Korea

Europe

United Kingdom

Germany

France

Spain

Italy

Middle East & Africa

Israel

Turkey

Saudi Arabia

UAE

South Africa

South America

Brazil

Argentina

Colombia

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global Membrane Filtration Market.

### Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).



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