

# **Membrane Element Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Configuration (Spiral Wound, Plate & Frame & Others), By Membrane Type (Reverse Osmosis, Ultrafiltration, Microfiltration, & Nanofiltration), By Application (Residential, Industrial, Municipal & Commercial), By Region and Competition**

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## **Abstracts**

Global membrane element market is predicted to proliferate during the forecast period owing to the increasing investments in the water & wastewater treatment industry and strict government policies regarding pure water among others across the globe.

An element of a water treatment facility is called a membrane which helps to remove solid or dissolved matter from water. Membrane elements can be used to filter out particles with a diameter as small as 0.1 micrometers. They are often used in combination with different types of water treatment machinery, including sedimentation tanks and sand filters.

Rising urbanization and increasing public awareness of the importance of clean drinking water are driving the demand for household water treatment and purification systems, thereby increasing the demand for membrane components. With increasing standardization and stringent regulations set up by local governments and authorities, measures to treat wastewater before releasing it in the near water body are being taken. Additionally, a variety of large number water treatment plants are operating within the industrial sector for wastewater treatment. To ensure that the highest quality of water is discharged and to stop the reasons contributing to rising water pollution, a larger number of membrane element is being used. Therefore, the demand for membrane

elements is expected to boost in the coming years.

The global market for membrane element is anticipated to expand fast during the forecast period as a result of the rising demand for this membrane in water treatment plants, industries, water purification, among others. The market's expansion is anticipated to be supported by the growing adoption of smart membrane elements across several industries. Whereas smart membranes can self-adjust their physical and chemical characteristics, such as pore size and surface qualities, in response to environmental signals, including temperature, pH, and light. Additionally, increased investment, rising living standards globally, and the expansion of the international economy have all contributed to the expansion of urbanization. This should generate profitable opportunities for the global membrane element market during the projected period 2024-2028F.

#### Various Growth Factors of Membrane Elements Enhance the Global Membrane Element Market in the coming years

**Increasing demand for water treatment:** Due to the rising need for water treatment systems across the globe, the global membrane element market is anticipated to expand in the coming years. This is mostly due to the expansion of the population and industrialization, which have increased the production of wastewater.

**Rising awareness about water conservation:** People are becoming more concerned about conserving water, which is leading to an increase in the use of membrane element-based technologies for the treatment of wastewater.

**Technological advancements:** Membrane element technology is continually developing, and innovative products are frequently launched into the market. This contributes to membrane element market expansion as it offers better performance and efficiency than traditional technologies.

#### Water & Wastewater Treatment Industry and Chemical Industry are likely to Propel the Demand for Membrane Elements across the Globe

Growing investment in the water and wastewater treatment industry and the rising demand for membrane elements from the chemical industry are projected to propel the growth of the market during the coming years. Additionally, it is anticipated that the oil

and gas industry is going to be a major driver of a rise in the demand for membrane elements. The growth of the global economy, higher living standards, and more investments have caused an acceleration in the development of urban infrastructure as well as urban planning. As a result, it is projected that during the next years, there is expected to be an increase in the consumption of membrane elements.

For instance,

In the Asia-Pacific region, the Indian government has started several initiatives. In 2015, the Indian government launched Namami Gange program. The government has approved 161 sewage management projects under the Namami Gange Program, approximately USD 3 billion, for the construction and renovation of 5501 MLD sewage treatment capacity as well as the installation of 5,134 km of sewerage network. A total of 92 of these projects have been completed, creating and upgrading 1,643 MLD of STP capacity and installing a 4,156 km sewage network (PIB, 2022). Additionally, it includes sectoral initiatives, including the Swachh Bharat (Clean India) Mission 2014-2019, the AMRUT Mission 2015-2023, and the Smart City project 2017-2023 that aim to enhance both sewerage and unsewered sanitation.

China's population accounts for 20% of the world's population, while water resources only account for 7% of the world. China's water supply and quality are facing severe problems because of its rapid urbanization and industrialization. The Chinese government has set goals of achieving 95% wastewater treatment for all county-level cities and a 25% water reuse rate in places with a lack of water. Technology for purifying and recycling water is in high demand in China.

## COVID-19 Impact: Supply Chain Disruptions and Economic Slow-Down Hampered the Global Membrane Element Market

The COVID-19 pandemic negatively impacted the economic development of several nations across the world in 2020. Various significant measures were taken by several nations to stop the spread of COVID-19. A few of the actions include a partial or complete lockdown, travel restrictions, the closing of companies and manufacturing facilities, and labor scarcity. This action caused a distance and a labor shortage, which affected the supplier's capacity to produce and transport items on the schedule. As a result, manufacturers were unable to fulfil their obligations to customers on time.

The COVID-19 pandemic hampered international trade industry and logistical operations. The global economies suffered greatly from a halt in industrial activity, which finally led to an economic recession. For instance, according to the Centre for Monitoring Indian Economy (CMIE), India's unemployment rate was over 27% in the first week of May 2020, which is claimed because of extreme strain on the economy. Market productivity was hampered due to disruptions in the supply and demand for industrial inputs, including polymers, such as polysulfones and polyacrylonitrile and the limited availability of workforce. However, the intense research & development in manufacturing the vaccines and strict government rules & regulations are expected to relax the curbs on production and trade activities.

## Market Segmentation

The global membrane element market is segmented into configuration, membrane type, and application. Based on configuration, the market is segmented into spiral wound, plate & frame, and others. Based on membrane type, the market is segmented into reverse osmosis, ultrafiltration, microfiltration, and nanofiltration. Based on application, the market is segmented into residential, industrial, municipal, and commercial. The market analysis also studies the regional segmentation among North America, Europe, Asia-Pacific, South America, and Middle East & Africa.

## Company Profiles

Dow Water and Process Solutions Inc, Toray Industries Inc, Veolia USA Inc, Nitto Denko Corporation, Danaher Corporation, Alfa Laval Corporate AB, Applied Membrane Inc, Koch Membrane Systems Inc, and Toyobo Co. Ltd are among the major players that are driving the growth of the global membrane element market.

## Report Scope:

In this report, the global membrane element market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Membrane Element Market, By Configuration:

Spiral Wound

Plate & Frame

Others

Global Membrane Element Market, By Membrane Type:

Reverse Osmosis

Ultrafiltration

Microfiltration

Nanofiltration

Global Membrane Element Market, By Application:

Residential

Industrial

Municipal

Commercial

Global Membrane Element Market, By Region:

Asia-Pacific

China

Japan

India

Australia

Singapore

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Spain

Italy

Middle East & Africa

Israel

Qatar

Saudi Arabia

UAE

South America

Brazil

Argentina

Colombia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global membrane element 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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