

Ion Exchange Membrane Market Report by Charge (Cation, Anion, Amphoteric, Bipolar, Mosaic), Material (Hydrocarbon Membrane, Perfluorocarbon Membrane, Inorganic Membrane, Composite Membrane, Partially Halogenated Membrane), Structure (Heterogeneous Membrane, Homogenous Membrane), Application (Electrodialysis, Electrolysis, Chromatographic Separation, Desalination, Wastewater Treatment, Radioactive Liquid Waste Treatment), and Region 2024-2032

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Abstracts

The global ion exchange membrane market size reached US\$ 974.1 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,381.7 Million by 2032, exhibiting a growth rate (CAGR) of 3.8% during 2024-2032. The growing wastewater treatment projects, increasing use in the healthcare and energy storage sectors, and rising advancements in the chemical industry represent some of the key factors driving the market.

Rising Wastewater Treatment Projects Augmenting Market Growth

The rising wastewater treatment projects in developing countries represent one of the primary drivers of the ion exchange membrane market. There is a rise in the preference toward pollution treatment measures, such as water and industrial wastewater treatments, aerobic treatment, and anaerobic treatment. In addition, there is an increase in the utilization of wastewater treatment due to the rising demand for clean water

around the world. Moreover, the growing awareness about water quality and health among individuals is positively influencing the market.

Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. The market structure is moderately fragmented with the presence of a large number of global and regional players operating in the industry due to the increase in innovations and emergence of small regional players. The volume of new entrants is low in the ion exchange membrane industry on account of the low product differentiation and switching costs.

What is an Ion Exchange Membrane?

Ion exchange membrane (IEM) is a thin semipermeable sheet or film designed for the separation of cations and anions from fluids in water treatment plants. It relies on ionic species that enable the separation, concentration, and exclusion of ionic material from the fluid flow. It is widely available as chlor-alkali, hydrocarbon, perfluorocarbon, inorganic, and composite and partially halogenated variants. It is more cost-effective and assists in removing dissolved inorganic ions and regenerating resins compared to traditional ion exchange membranes. IEM is also utilized in electrolysis, chromatographic separations, and water softening processes for removing the calcium, magnesium, and toxic metals from the water.

COVID-19 Impact:

The COVID-19 pandemic outbreak has caused a severe problem for the ion exchange membrane industry and imposed unprecedented challenges on numerous countries. The enforcement of social distancing norms and lockdown measures caused players to downscale capacity or temporarily pause the production process. In addition, the shortage of labor was witnessed due to the widespread coronavirus across the globe. Due to the transportation restrictions, various end-use industries, such as chemical, wastewater, and oil and gas, shut down their operations, which declined the demand for ion exchange membranes. Moreover, the limited cross-border movement has hampered the exports and imports of ion exchange membranes. The introduction of multiple checks and terminals increased the transportation cost and caused a slight delay in overall supply. Apart from this, many players faced huge losses due to the restrictions on the movement of goods and services and the shortage of labor. However, amid partial business reopening, the demand for ion exchange membranes was expected to

increase. As a result, post-pandemic, due to the rising awareness among individuals about enhanced safety and health, the demand for ion exchange membranes is rising worldwide.

Ion Exchange Membrane Market Trends:

At present, the increasing demand for IEMs to produce green hydrogen represents one of the major factors influencing the market positively. In addition, governing agencies of various countries are encouraging the adoption of clean and portable water, which is strengthening the growth of the market. Apart from this, the growing utilization of IEMs in the healthcare sector to treat renal failure and remove toxins and body waste among individuals is offering a positive market outlook. Additionally, the rising demand for IEMs in the chemical industry for manufacturing caustic soda, caustic potash, and chlorine and hydrogen-basic chemical products is contributing to the growth of the market. Besides this, the increasing wastewater treatment projects in various countries to encourage the consumption and usage of safe and hygienic water are supporting the growth of the market. Moreover, there is a rise in the need for effective wastewater and radioactive liquid waste treatment solutions across numerous industries around the world. In line with this, the increasing adoption of IEMs, as they assist in removing hardness, heavy metals, and impurities from wastewater, is offering lucrative growth opportunities to industry investors.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global ion exchange membrane market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on charge, material, structure and application.

Charge Insights:

Cation

Anion

Amphoteric

Bipolar

Mosaic

The report has provided a detailed breakup and analysis of the ion exchange membrane market based on the charge. This includes cation, anion, amphoteric, bipolar, and mosaic. According to the report, anion represented the largest segment, as it provides resistivity from alkali, oxidation, chlorine, and acts as a diffusion dialysis for acid recovery. In addition, the increasing demand for water purification and wastewater treatment is positively influencing the market.

Material Insights:

Hydrocarbon Membrane

Perfluorocarbon Membrane

Inorganic Membrane

Composite Membrane

Partially Halogenated Membrane

A detailed breakup and analysis of the ion exchange membrane market based on the material has also been provided in the report. This includes hydrocarbon membrane, perfluorocarbon membrane, inorganic membrane, composite membrane, and partially halogenated membrane. According to the report, inorganic membrane accounted for the largest market share, as it offers stability to high temperatures and to wetting-drying cycles over organic membranes. Moreover, the rising adoption of inorganic membrane to enhance conductivity of the membranes and prevent their dehydration under high temperature is impelling the market growth.

Structure Insights:

Heterogeneous Membrane

Homogenous Membrane

A detailed breakup and analysis of the ion exchange membrane market based on the structure has also been provided in the report. This includes heterogeneous membrane and homogenous membrane. According to the report, homogenous accounted for the largest market share, as it has electrochemical properties with lower mechanical characteristics. Additionally, the rising utilization of homogenous membrane to remove high sulphate concentrate from water is contributing to the market growth.

Application Insights:

Electrodialysis

Electrolysis

Chromatographic Separation

Desalination

Wastewater Treatment

Radioactive Liquid Waste Treatment

A detailed breakup and analysis of the ion exchange membrane market based on the application has also been provided in the report. This includes electrodialysis, electrolysis, chromatographic separation, desalination, wastewater treatment, and radioactive liquid waste treatment. According to the report, electrolysis accounted for the largest market share due to the increasing utilization in chemical processing, chloralkali and hydrogen production, and metal extraction. In addition, there is a rise in the demand for electrolysis due to the increasing production of chlorine, caustic soda, and other chlorine and sodium derived products.

Regional Insights:

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

The 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, Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others) was the largest market for ion exchange membrane. Some of the factors driving the Asia Pacific ion exchange membrane market included the favorable government policies, increasing geriatric population, and thriving medical device industry. In addition to this, the rising demand for ion exchange membranes to treat various kidney related diseases among individuals is bolstering the growth of the market in the region.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global ion exchange membrane market. Some of the companies covered in the report include:

3M Company

AGC ENGINEERING Co. Ltd

Asahi Kasei Corporation

Dioxide Materials

Dow Inc.

DuPont de Nemours Inc.

Fujifilm Holdings Corporation

General Electric Company

Lanxess AG

Merck KGaA

ResinTech Inc.

Saltworks Technologies Inc.

Toray Industries Inc.

Please note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global ion exchange membrane market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global ion exchange membrane market?

What is the impact of each driver, restraint, and opportunity on the global ion exchange membrane market?

What are the key regional markets?

Which countries represent the most attractive ion exchange membrane market?

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

Which is the most attractive charge in the ion exchange membrane market?

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

Which is the most attractive material in the ion exchange membrane market?

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

Which is the most attractive structure in the ion exchange membrane market?

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

Which is the most attractive application in the ion exchange membrane market?

What is the competitive structure of the global ion exchange membrane market?

Who are the key players/companies in the global ion exchange membrane market?

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