

Ion Exchange Membrane Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global ion exchange membrane market reached a value of US\$ 886.1 Million in 2021. Looking forward, IMARC Group expects the market to reach US\$ 1,162.7 Million by 2027, exhibiting a CAGR of 4.72% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic. These insights are included in the report as a major market contributor.

Ion exchange membranes (IEM) are thin semipermeable sheets or films used for the separation of cations and anions from fluids in water treatment plants. The ionic species enable the separation, concentration and exclusion of ionic material from the fluid flow. The membranes are commonly available in chlor-alkali, hydrocarbon, perfluorocarbon, inorganic, composite and partially halogenated variants. They consist of electrically charged active sites that are used for the treatment of industrial effluents and desalination of seawater and brackish water. In comparison to the traditionally used membranes, IEM are more cost-effective and can be used for removing dissolved inorganic ions and regenerating resins. They are also used for electrolysis, chromatographic separations and water softening processes by removing the calcium, magnesium and toxic metals for the water.

Ion Exchange Membrane Market Trends:

The increasing demand for effective wastewater and radioactive liquid waste treatment solutions across industries is one of the key factors driving the growth of the market. Moreover, significant growth in the chemical industry is creating a positive outlook for the market. Chlor-alkali ion exchange membranes IEMs are widely used for separation of sodium and chloride ions of sodium chloride and for the manufacturing of caustic

soda, caustic potash, chlorine and hydrogen-basic chemical products. They are also used as separators for the organic synthesis and hydro dimerization of acrylonitrile to produce adiponitrile. In line with this, the increasing demand for IEMs for the purification of medical drugs is also contributing to the growth of the market. Other factors, including the implementation of favorable government policies for providing clean and potable water, along with the increasing requirement for green hydrogen processing solutions for sustainable energy supply systems, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global ion exchange membrane market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on charge, material, structure and application.

Breakup by Charge:

- Cation
- Anion
- Amphoteric
- Bipolar
- Mosaic

Breakup by Material:

- Hydrocarbon Membrane
- Perfluorocarbon Membrane
- Inorganic Membrane
- Composite Membrane
- Partially Halogenated Membrane

Breakup by Structure:

- Heterogeneous Membrane
- Homogenous Membrane

Breakup by Application:

- Electrodialysis

Electrolysis
Chromatographic Separation
Desalination
Wastewater Treatment
Radioactive Liquid Waste Treatment

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

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 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. and Toray Industries Inc. 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 has been the impact of COVID-19 on the global ion exchange membrane market?

What are the key regional markets?

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

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

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

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

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global ion exchange membrane market and who are the key players?

What is the degree of competition in the industry?

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