

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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL ION EXCHANGE MEMBRANE MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY CHARGE

- 6.1 Cation
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Anion
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Amphoteric

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Bipolar
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast
- 6.5 Mosaic
 - 6.5.1 Market Trends
 - 6.5.2 Market Forecast

7 MARKET BREAKUP BY MATERIAL

- 7.1 Hydrocarbon Membrane
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Perfluorocarbon Membrane
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Inorganic Membrane
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Composite Membrane
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Partially Halogenated Membrane
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast

8 MARKET BREAKUP BY STRUCTURE

- 8.1 Heterogeneous Membrane
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Homogenous Membrane
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY APPLICATION

- 9.1 Electrodialysis

- 9.1.1 Market Trends
- 9.1.2 Market Forecast
- 9.2 Electrolysis
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Chromatographic Separation
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Desalination
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Wastewater Treatment
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast
- 9.6 Radioactive Liquid Waste Treatment
 - 9.6.1 Market Trends
 - 9.6.2 Market Forecast

10 MARKET BREAKUP BY REGION

- 10.1 North America
 - 10.1.1 United States
 - 10.1.1.1 Market Trends
 - 10.1.1.2 Market Forecast
 - 10.1.2 Canada
 - 10.1.2.1 Market Trends
 - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
 - 10.2.1 China
 - 10.2.1.1 Market Trends
 - 10.2.1.2 Market Forecast
 - 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
 - 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
 - 10.2.4 South Korea
 - 10.2.4.1 Market Trends

- 10.2.4.2 Market Forecast
- 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast

- 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 SWOT ANALYSIS

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 3M Company
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.1.4 SWOT Analysis

15.3.2 AGC ENGINEERING Co. Ltd

15.3.2.1 Company Overview

15.3.2.2 Product Portfolio

15.3.2.3 Financials

15.3.2.4 SWOT Analysis

15.3.3 Asahi Kasei Corporation

15.3.3.1 Company Overview

15.3.3.2 Product Portfolio

15.3.3.3 Financials

15.3.3.4 SWOT Analysis

15.3.4 Dioxide Materials

15.3.4.1 Company Overview

15.3.4.2 Product Portfolio

15.3.5 Dow Inc.

15.3.5.1 Company Overview

15.3.5.2 Product Portfolio

15.3.5.3 Financials

15.3.5.4 SWOT Analysis

15.3.6 DuPont de Nemours Inc.

15.3.6.1 Company Overview

15.3.6.2 Product Portfolio

15.3.6.3 Financials

15.3.6.4 SWOT Analysis

15.3.7 Fujifilm Holdings Corporation

15.3.7.1 Company Overview

15.3.7.2 Product Portfolio

15.3.7.3 Financials

15.3.7.4 SWOT Analysis

15.3.8 General Electric Company

15.3.8.1 Company Overview

15.3.8.2 Product Portfolio

15.3.8.3 Financials

15.3.8.4 SWOT Analysis

15.3.9 Lanxess AG

15.3.9.1 Company Overview

15.3.9.2 Product Portfolio

15.3.9.3 Financials

15.3.9.4 SWOT Analysis

15.3.10 Merck KGaA

- 15.3.10.1 Company Overview
- 15.3.10.2 Product Portfolio
- 15.3.10.3 Financials
- 15.3.10.4 SWOT Analysis
- 15.3.11 ResinTech Inc.
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio
- 15.3.12 Saltworks Technologies Inc.
 - 15.3.12.1 Company Overview
 - 15.3.12.2 Product Portfolio
- 15.3.13 Toray Industries Inc.
 - 15.3.13.1 Company Overview
 - 15.3.13.2 Product Portfolio
 - 15.3.13.3 Financials
 - 15.3.13.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Ion Exchange Membrane Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Ion Exchange Membrane Market Forecast: Breakup by Charge (in Million US\$), 2024-2032

Table 3: Global: Ion Exchange Membrane Market Forecast: Breakup by Material (in Million US\$), 2024-2032

Table 4: Global: Ion Exchange Membrane Market Forecast: Breakup by Structure (in Million US\$), 2024-2032

Table 5: Global: Ion Exchange Membrane Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 6: Global: Ion Exchange Membrane Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Ion Exchange Membrane Market: Competitive Structure

Table 8: Global: Ion Exchange Membrane Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Ion Exchange Membrane Market: Major Drivers and Challenges

Figure 2: Global: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018-2023

Figure 3: Global: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 4: Global: Ion Exchange Membrane Market: Breakup by Charge (in %), 2023

Figure 5: Global: Ion Exchange Membrane Market: Breakup by Material (in %), 2023

Figure 6: Global: Ion Exchange Membrane Market: Breakup by Structure (in %), 2023

Figure 7: Global: Ion Exchange Membrane Market: Breakup by Application (in %), 2023

Figure 8: Global: Ion Exchange Membrane Market: Breakup by Region (in %), 2023

Figure 9: Global: Ion Exchange Membrane (Cation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Ion Exchange Membrane (Cation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Ion Exchange Membrane (Anion) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Ion Exchange Membrane (Anion) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Ion Exchange Membrane (Amphoteric) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Ion Exchange Membrane (Amphoteric) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Ion Exchange Membrane (Bipolar) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Ion Exchange Membrane (Bipolar) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Ion Exchange Membrane (Mosaic) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Ion Exchange Membrane (Mosaic) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Ion Exchange Membrane (Hydrocarbon Membrane) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Ion Exchange Membrane (Hydrocarbon Membrane) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Ion Exchange Membrane (Perfluorocarbon Membrane) Market: Sales

Value (in Million US\$), 2018 & 2023

Figure 22: Global: Ion Exchange Membrane (Perfluorocarbon Membrane) Market

Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Ion Exchange Membrane (Inorganic Membrane) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Ion Exchange Membrane (Inorganic Membrane) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Ion Exchange Membrane (Composite Membrane) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Ion Exchange Membrane (Composite Membrane) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Ion Exchange Membrane (Partially Halogenated Membrane) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: Ion Exchange Membrane (Partially Halogenated Membrane) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: Ion Exchange Membrane (Heterogeneous Membrane) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: Ion Exchange Membrane (Heterogeneous Membrane) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Ion Exchange Membrane (Homogenous Membrane) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: Ion Exchange Membrane (Homogenous Membrane) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Global: Ion Exchange Membrane (Electrodialysis) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Global: Ion Exchange Membrane (Electrodialysis) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: Global: Ion Exchange Membrane (Electrolysis) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: Global: Ion Exchange Membrane (Electrolysis) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Global: Ion Exchange Membrane (Chromatographic Separation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Global: Ion Exchange Membrane (Chromatographic Separation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Global: Ion Exchange Membrane (Desalination) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Global: Ion Exchange Membrane (Desalination) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Global: Ion Exchange Membrane (Wastewater Treatment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Global: Ion Exchange Membrane (Wastewater Treatment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Global: Ion Exchange Membrane (Radioactive Liquid Waste Treatment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Global: Ion Exchange Membrane (Radioactive Liquid Waste Treatment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: North America: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: North America: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: United States: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: United States: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Canada: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Canada: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Asia-Pacific: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Asia-Pacific: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: China: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: China: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Japan: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Japan: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: India: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: India: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: South Korea: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: South Korea: Ion Exchange Membrane Market Forecast: Sales Value (in

Million US\$), 2024-2032

Figure 61: Australia: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Australia: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Indonesia: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Indonesia: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Others: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Others: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Europe: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Europe: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Germany: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Germany: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: France: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: France: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: United Kingdom: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: United Kingdom: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Italy: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Italy: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Spain: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Spain: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Russia: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Russia: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 81: Others: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Others: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Latin America: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 84: Latin America: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 85: Brazil: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 86: Brazil: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 87: Mexico: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 88: Mexico: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 89: Others: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 90: Others: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 91: Middle East and Africa: Ion Exchange Membrane Market: Sales Value (in Million US\$), 2018 & 2023

Figure 92: Middle East and Africa: Ion Exchange Membrane Market: Breakup by Country (in %), 2023

Figure 93: Middle East and Africa: Ion Exchange Membrane Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 94: Global: Ion Exchange Membrane Industry: SWOT Analysis

Figure 95: Global: Ion Exchange Membrane Industry: Value Chain Analysis

Figure 96: Global: Ion Exchange Membrane Industry: Porter's Five Forces Analysis

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