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Global Ion Exchange Membrane Market Size Study, by Material (Inorganic Membrane, Hydrocarbon Membrane, Composite Membrane, Partially Halogenated Membrane, Perfluorocarbon Membrane), by Application (Water Treatment, Electrodialysis, Electrolysis, Storage Batteries, Others), and Regional Forecasts 2022-2032

https://marketpublishers.com/r/G9E1FBC332C4EN.html
Date: March 2025
Pages: 285
Price: US$ 3,218.00 (Single User License)
ID: G9E1FBC332C4EN

Abstracts

The Global Ion Exchange Membrane Market was valued at USD 1.06 billion in 2023 and is anticipated to grow at a CAGR of 6.1% over the forecast period 2024-2032. The increasing need for efficient water purification solutions, advancements in green energy technologies, and growing industrial applications are driving demand for ion exchange membranes (IEMs). These membranes play a pivotal role in water desalination, wastewater treatment, and electrochemical processes, making them essential for addressing global water scarcity and energy sustainability goals.

The shift toward clean hydrogen production and electrochemical energy storage has further accelerated market growth. IEMs are integral to fuel cells, electrodialysis, and electrolysis processes, which are crucial for producing green hydrogen and enabling energy-efficient chemical separation technologies. With nations investing heavily in renewable energy, the demand for IEMs in energy applications is projected to surge.

Technological advancements in membrane materials, including high-performance polymers and perfluorocarbon membranes, have enhanced durability, chemical resistance, and ion selectivity, making ion exchange membranes more efficient. These improvements have expanded their applications across industries such as pharmaceuticals, food & beverage processing, and chemical manufacturing.

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The Asia-Pacific region dominates the global ion exchange membrane market, driven by rising industrialization, increased water scarcity concerns, and strong governmental support for sustainable infrastructure. Meanwhile, North America and Europe continue to lead technological advancements in IEM applications, particularly in hydrogen energy and industrial wastewater treatment.

Major Market Players Included in this Report Are:

3M

AGC ENGINEERING Co. Ltd.

Dioxide Materials

DuPont de Nemours, Inc.

Evergreen Technologies Pvt Ltd.

Fujifilm Manufacturing Europe BV

SUEZ

Hyflux Ltd.

ION EXCHANGE

LANXESS

Liaoning Yichen Membrane Technology Co. Ltd.

Merck KGaA

Membranes International Inc.

ResinTech

Saltworks Technologies Inc.

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The Detailed Segments and Sub-Segments of the Market Are Explained Below:

By Material:

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

By Application:

- Water Treatment
- Electrodialysis
- Electrolysis
- Storage Batteries
- Other Applications

By Region:

North America

- U.S.
- Canada
- Mexico

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Europe

- UK
- Germany
- France
- Spain
- Italy
- Russia
- Rest of Europe

Asia-Pacific

- China
- India
- Japan
- Australia
- Rest of Asia-Pacific

Central & South America

- Brazil
- Argentina
- Rest of Central & South America

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Middle East & Africa

- Saudi Arabia
- South Africa
- UAE
- Rest of Middle East & Africa

Years Considered for the Study Are As Follows:

- Historical Year – 2022
- Base Year – 2023
- Forecast Period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- Annualized revenues and regional-level analysis for each market segment.
- Detailed analysis of the geographical landscape with country-level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of the competitive structure of the market.
- Demand-side and supply-side analysis of the market.

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Contents

CHAPTER 1. GLOBAL ION EXCHANGE MEMBRANE MARKET EXECUTIVE SUMMARY

1.1. Global Ion Exchange Membrane Market Size & Forecast (2022-2032)
1.2. Regional Summary
1.3. Segmental Summary
  1.3.1. By Material
  1.3.2. By Application
1.4. Key Trends
1.5. Recession Impact
1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL ION EXCHANGE MEMBRANE MARKET DEFINITION AND RESEARCH ASSUMPTIONS

2.1. Research Objective
2.2. Market Definition
2.3. Research Assumptions
  2.3.1. Inclusion & Exclusion
  2.3.2. Limitations
  2.3.3. Supply Side Analysis
    2.3.3.1. Availability
    2.3.3.2. Infrastructure
    2.3.3.3. Regulatory Environment
    2.3.3.4. Market Competition
    2.3.3.5. Economic Viability (Consumer’s Perspective)
  2.3.4. Demand Side Analysis
    2.3.4.1. Regulatory Frameworks
    2.3.4.2. Technological Advancements
    2.3.4.3. Environmental Considerations
    2.3.4.4. Consumer Awareness & Acceptance
2.4. Estimation Methodology
2.5. Years Considered for the Study
2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL ION EXCHANGE MEMBRANE MARKET DYNAMICS

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3.1. Market Drivers
3.1.1. Rising Demand for Water Treatment Technologies
3.1.2. Increasing Applications in Electrochemical Energy Storage
3.1.3. Advancements in Membrane Material Science
3.2. Market Challenges
3.2.1. High Initial Installation & Maintenance Costs
3.2.2. Membrane Fouling and Performance Degradation
3.3. Market Opportunities
3.3.1. Growth of Hydrogen Production Using Electrolysis
3.3.2. Expansion of Industrial Applications in Emerging Economies

CHAPTER 4. GLOBAL ION EXCHANGE MEMBRANE MARKET INDUSTRY ANALYSIS

4.1. Porter’s Five Forces Model
4.1.1. Bargaining Power of Suppliers
4.1.2. Bargaining Power of Buyers
4.1.3. Threat of New Entrants
4.1.4. Threat of Substitutes
4.1.5. Competitive Rivalry
4.1.6. Futuristic Approach to Porter’s Five Forces Model
4.1.7. Porter’s Five Forces Impact Analysis
4.2. PESTEL Analysis
4.2.1. Political
4.2.2. Economic
4.2.3. Social
4.2.4. Technological
4.2.5. Environmental
4.2.6. Legal
4.3. Top Investment Opportunities
4.4. Top Winning Strategies
4.5. Disruptive Trends
4.6. Industry Expert Perspective
4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL ION EXCHANGE MEMBRANE MARKET SIZE & FORECASTS BY MATERIAL (2022-2032)

5.1. Segment Dashboard

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5.2. Global Ion Exchange Membrane Market: Material Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
5.2.1. Inorganic Membrane
5.2.2. Hydrocarbon Membrane
5.2.3. Composite Membrane
5.2.4. Partially Halogenated Membrane
5.2.5. Perfluorocarbon Membrane

CHAPTER 6. GLOBAL ION EXCHANGE MEMBRANE MARKET SIZE & FORECASTS BY APPLICATION (2022-2032)

6.1. Segment Dashboard
6.2. Global Ion Exchange Membrane Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
6.2.1. Water Treatment
6.2.2. Electrodialysis
6.2.3. Electrolysis
6.2.4. Storage Batteries
6.2.5. Other Applications

CHAPTER 7. GLOBAL ION EXCHANGE MEMBRANE MARKET SIZE & FORECASTS BY REGION (2022-2032)

7.1. North America
7.1.1. U.S.
7.1.1.1. Material Breakdown Size & Forecasts, 2022-2032
7.1.1.2. Application Breakdown Size & Forecasts, 2022-2032
7.1.2. Canada
7.1.3. Mexico
7.2. Europe
7.2.1. U.K.
7.2.2. Germany
7.2.3. France
7.2.4. Spain
7.2.5. Italy
7.2.6. Russia
7.2.7. Rest of Europe
7.3. Asia-Pacific
7.3.1. China

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7.3.2. India
7.3.3. Japan
7.3.4. Australia
7.3.5. Rest of Asia Pacific
7.4. Central & South America
7.4.1. Brazil
7.4.2. Argentina
7.4.3. Rest of Central & South America
7.5. Middle East & Africa
7.5.1. Saudi Arabia
7.5.2. South Africa
7.5.3. UAE
7.5.4. Rest of Middle East & Africa

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis
8.1.1. 3M
8.1.2. AGC ENGINEERING Co. Ltd.
8.1.3. DuPont de Nemours, Inc.
8.2. Top Market Strategies
8.3. Company Profiles
8.3.1. Dioxide Materials
8.3.2. Evergreen Technologies Pvt Ltd.
8.3.3. Fujifilm Manufacturing Europe BV
8.3.4. SUEZ
8.3.5. Hyflux Ltd.
8.3.6. ION EXCHANGE
8.3.7. LANXESS
8.3.8. Liaoning Yichen Membrane Technology Co. Ltd.
8.3.9. Merck KGaA
8.3.10. Saltworks Technologies Inc.

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process
9.1.1. Data Mining
9.1.2. Analysis
9.1.3. Market Estimation

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9.1.4. Validation
9.1.5. Publishing
9.2. Research Attributes

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List Of Tables

LIST OF TABLES

TABLE 1. Global Ion Exchange Membrane Market, Report Scope
TABLE 2. Global Ion Exchange Membrane Market Estimates & Forecasts by Region, 2022-2032 (USD Million/Billion)
TABLE 3. Global Ion Exchange Membrane Market Estimates & Forecasts by Material, 2022-2032 (USD Million/Billion)
TABLE 4. Global Ion Exchange Membrane Market Estimates & Forecasts by Application, 2022-2032 (USD Million/Billion)
TABLE 5. Global Ion Exchange Membrane Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
TABLE 6. Global Ion Exchange Membrane Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
TABLE 7. North America Ion Exchange Membrane Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
TABLE 8. Asia-Pacific Ion Exchange Membrane Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
TABLE 9. Europe Ion Exchange Membrane Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
TABLE 10. Latin America Ion Exchange Membrane Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
TABLE 11. Middle East & Africa Ion Exchange Membrane Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
This list is not complete; the final report contains more than 100 tables. The list may be updated in the final deliverable.

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List Of Figures

LIST OF FIGURES

FIG 1. Global Ion Exchange Membrane Market, Research Methodology
FIG 2. Global Ion Exchange Membrane Market, Market Estimation Techniques
FIG 3. Global Market Size Estimates & Forecast Methods
FIG 4. Global Ion Exchange Membrane Market, Key Trends 2023
FIG 5. Global Ion Exchange Membrane Market, Growth Prospects 2022-2032
FIG 6. Global Ion Exchange Membrane Market, Porter’s 5 Force Model
FIG 7. Global Ion Exchange Membrane Market, PESTEL Analysis
FIG 8. Global Ion Exchange Membrane Market, Value Chain Analysis
FIG 9. Competitive Landscape: R&D Spending by Major Players
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