

# **Global Membrane Separation Market Size Study, by Technology (Reverse Osmosis, Microfiltration, Ultrafiltration, Nanofiltration), by Application, and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/G09108991CC0EN.html>

Date: January 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: G09108991CC0EN

## **Abstracts**

The Global Membrane Separation Market, valued at approximately USD 27.6 billion in 2023, is projected to soar at a compound annual growth rate (CAGR) of 12.4% during the forecast period, culminating in a market size of USD 79.03 billion by 2032.

Membrane separation technologies have revolutionized water treatment, industrial processing, and energy recovery by offering unparalleled efficiency, cost-effectiveness, and sustainability. With their capability to selectively remove particles, microorganisms, and chemical contaminants, these systems have become indispensable across various end-use industries, including water treatment, food and beverages, and chemical processing.

The rapid expansion of urbanization and industrialization, coupled with an escalating global demand for clean water and wastewater treatment solutions, has emerged as a key driver of market growth. Reverse osmosis (RO) technology, in particular, has gained widespread prominence due to its exceptional desalination efficiency and ability to tackle high salinity levels. Furthermore, advancements in ultrafiltration and nanofiltration technologies are unlocking new opportunities by enabling enhanced separation precision and lower energy consumption. However, the market faces challenges, including the high initial investment costs and the complex maintenance requirements of membrane systems. Despite these hurdles, increasing government initiatives and technological innovations are set to propel the adoption of membrane separation solutions.

Regionally, Asia-Pacific dominates the membrane separation market, driven by

burgeoning populations, rising industrial activities, and stringent environmental regulations in countries like China and India. North America and Europe also hold significant shares, backed by advanced industrial infrastructure, growing investments in sustainable technologies, and a heightened focus on water conservation. Meanwhile, the Middle East and Africa regions are witnessing accelerated growth due to increasing desalination plant installations and efforts to address water scarcity.

Major market players included in this report are:

Veolia Water Technologies

SUEZ Water Technologies & Solutions

Toray Industries, Inc.

Hydranautics (A Nitto Group Company)

Koch Separation Solutions

Dow Water & Process Solutions

Asahi Kasei Corporation

Pall Corporation

Evoqua Water Technologies LLC

GE Water & Process Technologies

Pentair plc

LG Chem

Alfa Laval AB

3M Company

Mitsubishi Chemical Corporation

The detailed segments and sub-segments of the market are explained below:

By Technology:

Reverse Osmosis

Microfiltration

Ultrafiltration

Nanofiltration

By Application:

Water & Wastewater Treatment

Food & Beverage Processing

Industrial Gas Processing

Pharmaceutical & Biomedical

Chemical & Petrochemical Processing

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

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 & Forecasts for 10 years from 2022 to 2032.

Regional and segmental insights with detailed revenue projections.

Comprehensive analysis of drivers, challenges, and opportunities shaping the market.

Competitive intelligence and strategic guidance for stakeholders.

Evaluation of advanced technologies and their impact on market dynamics.

## Contents

### **CHAPTER 1. GLOBAL MEMBRANE SEPARATION MARKET EXECUTIVE SUMMARY**

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

### **CHAPTER 2. GLOBAL MEMBRANE SEPARATION 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 MEMBRANE SEPARATION MARKET DYNAMICS**

### 3.1. Market Drivers

- 3.1.1. Increasing Demand for Clean Water and Wastewater Treatment
- 3.1.2. Advancements in Membrane Technologies
- 3.1.3. Growing Industrialization and Urbanization

### 3.2. Market Challenges

- 3.2.1. High Initial Investment Costs
- 3.2.2. Complex Maintenance Requirements

### 3.3. Market Opportunities

- 3.3.1. Technological Innovations in Membrane Materials
- 3.3.2. Expansion into Emerging Markets
- 3.3.3. Development of Sustainable Membrane Solutions

## **CHAPTER 4. GLOBAL MEMBRANE SEPARATION MARKET INDUSTRY ANALYSIS**

### 4.1. Porter's 5 Force 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 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### 4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 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 MEMBRANE SEPARATION MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032**

### 5.1. Segment Dashboard

## 5.2. Global Membrane Separation Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

- 5.2.1. Reverse Osmosis
- 5.2.2. Microfiltration
- 5.2.3. Ultrafiltration
- 5.2.4. Nanofiltration

## **CHAPTER 6. GLOBAL MEMBRANE SEPARATION MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

### 6.1. Segment Dashboard

## 6.2. Global Membrane Separation Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

- 6.2.1. Water & Wastewater Treatment
- 6.2.2. Food & Beverage Processing
- 6.2.3. Industrial Gas Processing
- 6.2.4. Pharmaceutical & Biomedical
- 6.2.5. Chemical & Petrochemical Processing

## **CHAPTER 7. GLOBAL MEMBRANE SEPARATION MARKET SIZE & FORECASTS BY REGION 2022-2032**

### 7.1. North America Membrane Separation Market

- 7.1.1. U.S. Membrane Separation Market
  - 7.1.1.1. Technology Breakdown Size & Forecasts, 2022-2032
  - 7.1.1.2. Application Breakdown Size & Forecasts, 2022-2032
  - 7.1.1.3. End Use Industry Breakdown Size & Forecasts, 2022-2032
- 7.1.2. Canada Membrane Separation Market
  - 7.1.2.1. Technology Breakdown Size & Forecasts, 2022-2032
  - 7.1.2.2. Application Breakdown Size & Forecasts, 2022-2032
  - 7.1.2.3. End Use Industry Breakdown Size & Forecasts, 2022-2032

### 7.2. Europe Membrane Separation Market

- 7.2.1. UK Membrane Separation Market
- 7.2.2. Germany Membrane Separation Market
- 7.2.3. France Membrane Separation Market
- 7.2.4. Spain Membrane Separation Market
- 7.2.5. Italy Membrane Separation Market
- 7.2.6. Rest of Europe Membrane Separation Market

### 7.3. Asia-Pacific Membrane Separation Market



- 7.3.1. China Membrane Separation Market
- 7.3.2. India Membrane Separation Market
- 7.3.3. Japan Membrane Separation Market
- 7.3.4. Australia Membrane Separation Market
- 7.3.5. South Korea Membrane Separation Market
- 7.3.6. Rest of Asia Pacific Membrane Separation Market
- 7.4. Latin America Membrane Separation Market
  - 7.4.1. Brazil Membrane Separation Market
  - 7.4.2. Mexico Membrane Separation Market
  - 7.4.3. Rest of Latin America Membrane Separation Market
- 7.5. Middle East & Africa Membrane Separation Market
  - 7.5.1. Saudi Arabia Membrane Separation Market
  - 7.5.2. South Africa Membrane Separation Market
  - 7.5.3. Rest of Middle East & Africa Membrane Separation Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Key Company SWOT Analysis
  - 8.1.1. Veolia Water Technologies
  - 8.1.2. SUEZ Water Technologies & Solutions
  - 8.1.3. Toray Industries, Inc.
- 8.2. Top Market Strategies
- 8.3. Company Profiles
  - 8.3.1. Veolia Water Technologies
    - 8.3.1.1. Key Information
    - 8.3.1.2. Overview
    - 8.3.1.3. Financial (Subject to Data Availability)
    - 8.3.1.4. Product Summary
    - 8.3.1.5. Market Strategies
  - 8.3.2. SUEZ Water Technologies & Solutions
  - 8.3.3. Toray Industries, Inc.
  - 8.3.4. Hydranautics (A Nitto Group Company)
  - 8.3.5. Koch Separation Solutions
  - 8.3.6. Dow Water & Process Solutions
  - 8.3.7. Asahi Kasei Corporation
  - 8.3.8. Pall Corporation
  - 8.3.9. Evoqua Water Technologies LLC
  - 8.3.10. GE Water & Process Technologies
  - 8.3.11. Pentair plc

- 8.3.12. LG Chem
- 8.3.13. Alfa Laval AB
- 8.3.14. 3M Company
- 8.3.15. Mitsubishi Chemical Corporation

## **CHAPTER 9. RESEARCH PROCESS**

- 9.1. Research Process
  - 9.1.1. Data Mining
  - 9.1.2. Analysis
  - 9.1.3. Market Estimation
  - 9.1.4. Validation
  - 9.1.5. Publishing
- 9.2. Research Attributes

## **12. LIST OF TABLES**

- TABLE 1. Global Membrane Separation Market, Report Scope
- TABLE 2. Global Membrane Separation Market Estimates & Forecasts by Region 2022-2032 (USD Million/Billion)
- TABLE 3. Global Membrane Separation Market Estimates & Forecasts by Technology 2022-2032 (USD Million/Billion)
- TABLE 4. Global Membrane Separation Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)
- TABLE 5. Global Membrane Separation Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 6. Global Membrane Separation Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 7. Global Membrane Separation Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 8. Global Membrane Separation Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 9. Global Membrane Separation Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 10. Global Membrane Separation Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 11. Global Membrane Separation Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 12. Global Membrane Separation Market by Region, Estimates & Forecasts,

2022-2032 (USD Million/Billion)

- TABLE 13. Global Membrane Separation Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 14. Global Membrane Separation Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 15. U.S. Membrane Separation Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 16. U.S. Membrane Separation Market Estimates & Forecasts by Technology 2022-2032 (USD Million/Billion)
- TABLE 17. U.S. Membrane Separation Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)
- TABLE 18. Canada Membrane Separation Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 19. Canada Membrane Separation Market Estimates & Forecasts by Technology 2022-2032 (USD Million/Billion)
- TABLE 20. Canada Membrane Separation Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)
- ...

This list is not complete; the final report does contain more than 100 tables. The list may be updated in the final deliverable.

## 12. LIST OF FIGURES

- FIG 1. Global Membrane Separation Market, Research Methodology
- FIG 2. Global Membrane Separation Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Membrane Separation Market, Key Trends 2023
- FIG 5. Global Membrane Separation Market, Growth Prospects 2022-2032
- FIG 6. Global Membrane Separation Market, Porter's 5 Force Model
- FIG 7. Global Membrane Separation Market, PESTEL Analysis
- FIG 8. Global Membrane Separation Market, Value Chain Analysis
- FIG 9. Global Membrane Separation Market by Technology, 2022 & 2032 (USD Million/Billion)
- FIG 10. Global Membrane Separation Market by Application, 2022 & 2032 (USD Million/Billion)
- FIG 11. Global Membrane Separation Market by Water & Wastewater Treatment, 2022 & 2032 (USD Million/Billion)
- FIG 12. Global Membrane Separation Market by Region, 2022 & 2032 (USD Million/Billion)

- FIG 13. Global Membrane Separation Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 14. Global Membrane Separation Market, Regional Snapshot 2022 & 2032
- FIG 15. North America Membrane Separation Market 2022 & 2032 (USD Million/Billion)
- FIG 16. Europe Membrane Separation Market 2022 & 2032 (USD Million/Billion)
- FIG 17. Asia-Pacific Membrane Separation Market 2022 & 2032 (USD Million/Billion)
- FIG 18. Latin America Membrane Separation Market 2022 & 2032 (USD Million/Billion)
- FIG 19. Middle East & Africa Membrane Separation Market 2022 & 2032 (USD Million/Billion)
- FIG 20. Global Membrane Separation Market, Company Market Share Analysis (2023)
- ...

This list is not complete; the final report does contain more than 50 figures. The list may be updated in the final deliverable.

## I would like to order

Product name: Global Membrane Separation Market Size Study, by Technology (Reverse Osmosis, Microfiltration, Ultrafiltration, Nanofiltration), by Application, and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G09108991CC0EN.html>

Price: US\$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G09108991CC0EN.html>