

# Global RO and UF Membranes Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global RO and UF Membranes market size is expected to reach \$ 4961 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032). Reverse osmosis membranes achieve reverse solvent permeation through pressure. The core material is an aromatic polyamide composite membrane, capable of retaining solutes at the 0.0001 micron level, and is widely used in seawater desalination and industrial pure water production. Ultrafiltration membranes, driven by pressure difference, have a pore size range of 2-100 nanometers and effectively retain large organic molecules, colloids, and microorganisms. They are commonly used in municipal water supply upgrades and food and beverage clarification. Both upstream and downstream industries involve polymer material production; reverse osmosis membranes rely on polyamides and polysulfones, while ultrafiltration membranes use PVDF and PES. The midstream involves membrane element manufacturing, and downstream applications cover water treatment, biomedicine, food processing, and other industries, forming a complete closed loop from raw materials to end-use services. Global sales of reverse osmosis and ultrafiltration membranes are projected to reach 60 million square meters by 2025, with an average price of \$50 per square meter.

Market drivers mainly include:

**Water resource crisis and policy-driven factors:** The global water shortage is intensifying, with the United Nations predicting that 4 billion people will face water scarcity by 2030, forcing a surge in demand for seawater desalination and wastewater reuse. China's 14th Five-Year Plan explicitly requires an increase in the resource utilization rate of urban wastewater to 25%, promotes the penetration rate of reverse osmosis membranes in industrial wastewater treatment to 65%, and makes ultrafiltration membranes a core component for upgrading municipal water supply standards. The release of policy dividends continues to drive market expansion.

**Technological iteration and cost optimization:** In the reverse osmosis membrane field,

composite membrane technology, by incorporating nanomaterials such as graphene and titanium dioxide, increases the desalination rate to 99.8% while reducing energy consumption by 15%. In ultrafiltration membranes, PVDF hollow fiber membranes achieve a high flux of 400L/(m<sup>2</sup>h), three times more efficient than traditional PVC membranes. Technological breakthroughs have extended the membrane element replacement cycle to 3-5 years, reduced maintenance costs by 40%, and enhanced downstream purchasing willingness.

Explosive demand in emerging fields: The biopharmaceutical industry has seen a surge in demand for sterile water, and ultrafiltration membranes, with their 99.9999% microbial rejection rate, have become key equipment in vaccine production. LePure Bio's Extreme<sup>®</sup> PVDF membrane has already captured 50% of the domestic market share. In the new energy field, lithium extraction processes place higher demands on the acid and alkali resistance of reverse osmosis membranes. Jiuwu Hi-Tech's titanium-based ceramic membranes can withstand environments with pH values of 1-14, filling a gap in the domestic high-end market. Emerging sectors are becoming new engines for growth.

This report studies the global RO and UF Membranes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for RO and UF Membranes and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of RO and UF Membranes that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global RO and UF Membranes total production and demand, 2021-2032, (K Sqm)

Global RO and UF Membranes total production value, 2021-2032, (USD Million)

Global RO and UF Membranes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global RO and UF Membranes consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: RO and UF Membranes domestic production, consumption, key domestic manufacturers and share

Global RO and UF Membranes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global RO and UF Membranes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global RO and UF Membranes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global RO and UF Membranes market based on

the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DuPont, Toray, Nitto, 3M, Suez, Toyobo, MANN+HUMMEL, Kovalus Separation Solutions, Asahi Kasei, Veolia, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World RO and UF Membranes market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global RO and UF Membranes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RO and UF Membranes Market, Segmentation by Type:

Reverse Osmosis Membranes

Ultrafiltration Membranes

### Global RO and UF Membranes Market, Segmentation by Product Forms:

Roll-up

Hollow Fiber

Plate-and-Frame

### Global RO and UF Membranes Market, Segmentation by Material:

Organic Membranes

Inorganic Membranes

### Global RO and UF Membranes Market, Segmentation by Application:

Food and Beverages

Pharmaceutical

Chemical

Industrial and Municipal

Others

### **Companies Profiled:**

DuPont

Toray

Nitto

3M

Suez

Toyobo

MANN+HUMMEL

Kovalus Separation Solutions

Asahi Kasei

Veolia

Mitsubishi Chemical

Nitto Denko Corporation

Synder Filtration

Pentair (X-Flow)

Wharton Technology

Kohl's

LG Chem

Bluestar Membrane

Qinsen High-Tech

Aowei Technology

Wanhua Chemical

Weisaibo

Beijing Kanpur

CITIC Environment

Lisheng

Beijing Sinomembrane

Tianjin Membrane

Shandong Zhaojin Membrane

Zhonghuan Membrane

**Key Questions Answered:**

1. How big is the global RO and UF Membranes market?
2. What is the demand of the global RO and UF Membranes market?
3. What is the year over year growth of the global RO and UF Membranes market?
4. What is the production and production value of the global RO and UF Membranes market?
5. Who are the key producers in the global RO and UF Membranes market?
6. What are the growth factors driving the market demand?

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