

Membranes Market by Material (Polymeric, Ceramic), Technology (Reverse Osmosis, Ultrafiltration, Microfiltration, Nanofiltration), Application (Water & Wastewater Treatment, Industrial Processing), and Region - Global Forecast to 2030

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Report description:

The membranes market is expected to reach USD 11.70 billion by 2030, up from USD 7.87 billion in 2025, with a CAGR of 8.2%. The rising demand for wastewater treatment is fueling membrane use because they effectively remove contaminants, helping meet strict disposal standards and reducing risks associated with discharges or reusing treated water. Rapid industrialization and urbanization have led to increased wastewater production and higher pollution levels, prompting the adoption or continuation of advanced treatment technologies like membrane filtration for sustainable water management and resource recovery. Additionally, the focus on reducing water shortages through recycling and reuse is expected to boost demand for membranes in both municipal and industrial sectors worldwide.

<https://www.marketsandmarkets.com/Images/membranes-market-Overview.webp>

"Based on technology, microfiltration segment to account for second-largest share of membranes market during forecast period, in terms of value"

In terms of value, microfiltration holds the second-largest share of the membranes market because of its extensive use in water and wastewater treatment systems, pharmaceuticals and medical products, food and beverage, and more. Microfiltration has a unique feature that benefits its applications: its ability to effectively and efficiently remove suspended solids, bacteria, and large macromolecules with less energy consumption. Its low energy requirement makes microfiltration relatively inexpensive compared to many other treatment methods. The rising regulatory standards for water quality and the growing industry-wide demand for purified effluents are among the key reasons driving the increased adoption of microfiltration applications worldwide.

"Based on material, polymeric segment to be second fastest-growing segment in membranes market during forecast period, in

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terms of value"

Polymeric membranes are the second fastest-growing segment in the membranes market because they offer significant customization and flexible production options, are the most cost-effective, and have high chemical resistance. These membranes operate with various polymers that provide good selectivity and durability, making them common in water treatment, pharmaceuticals, and food development applications. Advances in polymer chemistry have led to improved fouling resistance, increased permeability, and a better ability to meet strict environmental regulations. There is also a growing focus and demand for sustainable liquid filtration solutions. It is expected that these trends will create opportunities for increased use of polymeric membrane filters throughout the forecast period.

"Based on region, Asia Pacific to account for largest share of membranes market, in terms of value"

Asia Pacific dominates the membranes market share and is the fastest-growing region due to rapid industrialization, urbanization, and the increased demand for clean water and wastewater treatment solutions in China, India, and Southeast Asia. Additionally, with strong government initiatives, capital investments in infrastructure, and ongoing advancements in technology, Asia Pacific has amplified market growth, thereby providing an opportunity to adopt and innovate membrane technologies.

In the process of determining and verifying the market size for several segments and subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees is as follows:

-□By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 - 30%

-□By Designation: Directors- 35%, Managers - 25%, and Others - 40%

-□By Region: North America - 22%, Europe - 22%, Asia Pacific - 45%, Middle East & Africa - 7%, and South America - 4%

Key players in this market are Dupont (US), Toray Industries Inc (Japan), Hydranautics (Nitto Denko Group Company) (US), Kovalus Separation Solutions (US), Pall Corporation (US), Veolia (France), Pentair (US), Asahi Kasei Corporation (Japan), LG Chem (South Korea), and Mann+Hummel (Germany).

Research Coverage

This report segments the membranes market by material, technology, application, and region, and offers estimates of the market's overall value across various regions. A detailed analysis of key industry players has been performed to provide insights into their business overviews, products and services, main strategies, new product launches, expansions, and mergers and acquisitions related to the membranes market.

Key Benefits of Buying this Report

This research report focuses on various levels of analysis, including industry analysis (industry trends), market ranking analysis of top players, and company profiles. Together, these provide an overall view of the competitive landscape, emerging and high-growth segments of the membranes market, high-growth regions, and the market's drivers, restraints, opportunities, and challenges.

The report provides insights into the following pointers:

-□Analysis of key drivers (Increasing awareness about water & wastewater treatment, Stringent wastewater regulations), restraints (Fouling and scaling in membranes, High capital costs of raw materials), opportunities (Rising demand for water treatment in emerging economies, Pressing need for freshwater supply in industries) and challenges (Issues related to lifespan and efficiency of membranes, Discharge of brine as waste from RO membranes).

-□Market Penetration: Comprehensive information on the membranes market share is offered regarding the top players in the global membranes market.

-□Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and new product launches in the membranes market.

-□Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the membranes market across regions.

-□Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global membranes market.

-□Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the membranes market.

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