

Membrane Filtration Technologies Market by Type (Reverse Osmosis, Ultrafiltration, Microfiltration, Nanofiltration), Construction, Membrane Material (Polymeric, Ceramic), Sector (Municipal, Residential, Industrial) and Geography — Global Forecasts to 2030

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Abstracts

The research report titled “Membrane Filtration Technologies Market by Type (Reverse Osmosis, Ultrafiltration, Microfiltration, Nanofiltration), Construction, Membrane Material (Polymeric, Ceramic), Sector (Municipal, Residential, Industrial) and Geography — Global Forecasts to 2030”, provides in-depth analysis of membrane filtration technologies market across five major geographies and emphasizes on the current market sizes, market shares, recent developments, and forecasts till 2030.

The global membrane filtration technologies market is expected to reach \$22.2 billion by 2030, growing at a CAGR of 6.9% during the forecast period of 2023–2030.

The growth of this market is attributed to the growing need for water reclamation and reuse technologies, the high consumption of water in the food & beverage processing industry, and the increasing prevalence of waterborne diseases. The growing demand for energy-efficient and advanced water treatment technologies is expected to create growth opportunities for the players operating in the membrane filtration technologies market. However, retrofitting membrane filtration technologies in existing infrastructure is a major challenge for market growth.

Based on type, the market is segmented into reverse osmosis, ultrafiltration, microfiltration, nanofiltration, and other technologies. The reverse osmosis segment is projected to register the highest CAGR during the forecast period. The growth of this segment is driven by the increasing demand for low energy-consuming water treatment

processes and increasing use of alternative water source treatments, including desalination plants and wastewater recycling.

Based on construction, the market is segmented into hollow fiber membranes, spiral wound membranes, tubular membranes, and other constructions. The hollow fiber membrane segment is projected to register the highest CAGR during the forecast period. The growth of this segment is driven by the increasing demand for hollow fiber membranes to offer various features such as high flux and reduced fouling, compact design, and low energy consumption for both small and large filtration volumes across the industrial sector.

Based on membrane material, the market is segmented into polymeric, ceramic, and other membrane materials. The ceramic segment is projected to register the highest CAGR during the forecast period. The growth of this segment is driven by the increasing demand for ceramic membranes across various sectors such as water & wastewater, food & beverage, chemical, biotechnology, and pharmaceuticals and the increasing use of new technologies to manufacture ceramic membranes to improve quality and cost reduction.

Based on sector, the market is segmented into municipal, residential, and industrial sectors. The residential segment is projected to register the highest CAGR during the forecast period. The growth of this segment is driven by the growing need for membrane filtration technologies used for water and wastewater treatment for housing developments, recreational facilities, apartment complexes, military facilities, communities/villages, and small municipalities across the municipal sector.

Geographic Review:

Based on geography, the market is broadly segmented into North America, Europe, Asia-Pacific, Latin America, and the Middle East and Africa region. Asia-Pacific is projected to register the highest CAGR during the forecast period. The growth of this market is driven by the rapid growth of industrialization, advances in membrane technology, increased environmental deterioration, and declining availability of clean water.

The key players operating in the global membrane filtration technologies market are 3M Company (U.S.), GEA Group Aktiengesellschaft (Germany), Pall Corporation (U.S.), Veolia Water Technologies, Inc. (France), Koch Separation Solutions (U.S.), Alfa Laval AB (Sweden), DuPont de Nemours, Inc. (U.S.), Synder Filtration Inc. (U.S.), ProMinent

GmbH (Germany), Pentair plc (U.S.), Porvair Filtration Group (U.K.), Advantec MFS, Inc. (U.S.), Thermax Limited (India), Suez SA (France), and SPX Flow, Inc. (U.S.).

Key questions answered in the report:

Which are the high growth market segments in terms of type, construction, membrane material, sector, and countries?

What is the historical market for membrane filtration technologies across the globe?

What are the market forecasts and estimates from 2023–2030?

What are the major drivers, restraints, and opportunities in the global membrane filtration technologies market?

Who are the major players in the global membrane filtration technologies market, and what shares of the market do they hold?

Who are the major players in various countries, and what shares of the market do they hold?

How is the competitive landscape?

What are the recent developments in the global membrane filtration technologies market?

What are the different strategies adopted by the major players in the global membrane filtration technologies market?

What are the geographical trends and high growth countries?

Who are the local emerging players in the global membrane filtration technologies market and how do they compete with the other players?

Scope of the Report:

Market Assessment, by Type

Membrane Filtration Technologies Market by Type (Reverse Osmosis, Ultrafiltration, Microfiltration, Nanofiltration, etc.)

Reverse Osmosis

Ultrafiltration

Microfiltration

Nanofiltration

Other Technologies

Market Assessment by Construction

Hollow Fiber Membrane

Spiral Wound Membrane

Tubular Membrane

Other Constructions

Market by Assessment, by Membrane Material

Polymeric

Ceramic

Other Membrane Materials

Market by Assessment, by Sector

Municipal

Residential

Industrial

Food & Beverage

Chemicals & Pharmaceuticals

Power Generation

Pulp & Paper

Oil & Gas

Mining

Petrochemical

Electronics & Semiconductors

Other End-use Industries

Market Assessment, by Geography

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Spain

Rest of Europe

Asia-Pacific

Japan

China

India

South Korea

Australia & New Zealand

Rest of Asia-Pacific

Latin America

Mexico

Brazil

Rest of Latin America

Middle East & Africa

UAE

Saudi Arabia

Rest of the Middle East & Africa

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