

Reverse Osmosis Membrane Market by Material Type (Cellulose-Based and Thin Film Composite), Filter Module (Plate & Frame, Tubular-Shaped, Spiral-Wound, And Hollow-Fiber), and Application (Desalination System, RO Purification System, and Medical Devices & Diagnostics): Global Opportunity Analysis and Industry Forecast, 2018-2025

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Abstracts

The reverse osmosis (RO) membrane is a material with tiny pores that exclude dissolved salts and molecules from sea or brackish water. RO is the most economical and practical way for purification & treatment of water. The RO membrane is delicate and expensive, hence needs protection. Since its discovery, there has been progressive improvement in the membranes and development of means for packaging them. As a result, present-day RO plants are compact & simple to operate, and there is no phase change required.

The Asia-Pacific region is the fastest-growing market for RO membranes. The RO market is expected to register substantial growth during the forecast period, attributed to huge population in developing economies of the region. Other factors that drive the market are high-growth application areas such as seawater desalination systems and RO purification systems along with stringent regulations, owing to increased concerns over safe drinking water. Rapid industrialization and continuous rise in infrastructure have contributed immensely toward water pollution, which is expected to drive the need for water purification and thus, indirectly create opportunities for the market players. However, factors, such as high cost of membrane, are anticipated to restrict the market growth during the forecast period.

The report segments the global reverse osmosis membrane market by material type, filter module, application, and region. On the basis of material type, the market is segmented into cellulose-based and thin film composite. According to filter module, the market is classified into the plate & frame, tubular-shaped, spiral-wound, and hollow-fiber. On the basis of application, the market is divided into desalination system, RO purification system and medical devices & diagnostics. Regional breakdown and deep analysis of each of the previously mentioned segments is included for North America, Europe, Asia-Pacific, and LAMEA.

The prominent players in the global reverse osmosis membrane market have strategically focused on product launch as their key strategy to gain significant share in the market. The key players in market have also utilized partnerships and acquisitions to stay relevant in the global market. The key players operating in the global reverse osmosis membrane market are Toray Industries, Inc., LG Chem., Hydranautics (A Nitto Group Company), Toyobo Co., Ltd., Lanxess AG, The Dow Chemical Company, Koch Membrane System, Microdyn-Nadir GmbH, Membranium (JSC RM Nanotech), and Axeon Water Technologies.

KEY BENEFITS FOR STAKEHOLDERS

The report provides a quantitative analysis of the current market trends, estimations, and dynamics of the market size from 2018 to 2026, to identify the prevailing reverse osmosis membrane market opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders to make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the size and segmentation assists in determining the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global industry.

Market player positioning segment facilitates benchmarking and provides a clear understanding of the present position of the market players in the reverse osmosis membrane industry.

KEY MARKET SEGMENTATION

By Material type

Cellulose-based

Thin film composite

By Filter Module

Plate & frame

Tubular-shaped

Spiral-wound

Hollow-fiber

By Application

Desalination system

RO purification system

Medical Devices & Diagnostics

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

Spain

UK

Italy

France

Rest of Europe

Asia-Pacific

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Argentina

South Africa

UAE

Qatar

Saudi Arabia

Rest of LAMEA

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