

Global Nanofiltration Membrane Market Size Study & Forecast, by Type (Polymeric, Ceramic), Module (Spiral Wound, Tubular, Hollow Fiber), Application (Municipal, Industrial), and Regional Forecasts 2025–2035

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Abstracts

The Global Nanofiltration Membrane Market is valued at approximately USD 1.36 billion in 2024 and is expected to flourish with a promising CAGR of 11.20% during the forecast period from 2025 to 2035. Nanofiltration membranes—semipermeable membranes offering selective separation at a molecular level—have revolutionized fluid purification across sectors. These membranes are engineered to filter divalent salts, organic compounds, and heavy metals while allowing monovalent ions to pass, making them invaluable across water treatment, food processing, pharmaceuticals, and chemical industries. The convergence of rising water scarcity, stringent regulations surrounding industrial discharge, and escalating awareness toward sustainability has prompted industries to transition from conventional filtration systems to more advanced nanofiltration solutions.

What further bolsters the momentum of nanofiltration membranes is their unique ability to bridge the gap between ultrafiltration and reverse osmosis. Industries are increasingly opting for nanofiltration owing to its lower operating pressure, reduced energy consumption, and cost-effective operation. As water-intensive sectors such as textile, paper, pharmaceuticals, and petrochemicals ramp up operations globally, demand for these membranes is witnessing parallel growth. Additionally, growing urban populations and industrialization in developing nations are increasing the need for reliable municipal water treatment systems. Governments across Asia Pacific and the Middle East are launching numerous initiatives to upgrade their water infrastructure and promote zero-liquid discharge, thereby unlocking opportunities for nanofiltration technology providers.

Regionally, North America is poised to retain a dominant market position due to its highly regulated water management systems, cutting-edge industrial infrastructure, and increasing investments in smart membrane technologies. The U.S. leads the region with widespread adoption across both municipal and industrial sectors. Europe continues to be a close contender with stringent EU policies favoring advanced wastewater reuse and the circular economy. However, the Asia Pacific region is expected to grow at the fastest pace during the forecast timeline. Rapid urban expansion in China and India, coupled with government initiatives like “Smart Cities” and industrial corridor development, are driving the adoption of high-performance membrane technologies. Furthermore, increasing water stress in countries such as Saudi Arabia and South Africa is likely to escalate demand in the Middle East & Africa region over the coming decade.

Major market players included in this report are:

Toray Industries, Inc.

DuPont Water Solutions

Koch Separation Solutions

Alfa Laval AB

Hydranautics (Nitto Denko Corporation)

Synder Filtration Inc.

Parker Hannifin Corporation

Pall Corporation

Veolia Water Technologies

Lenntech B.V.

GEA Group Aktiengesellschaft

SUEZ Water Technologies & Solutions

Axeon Water Technologies

SPX FLOW, Inc.

TriSep Corporation

Global Nanofiltration Membrane Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

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

By Type:

Global Nanofiltration Membrane Market Size Study & Forecast, by Type (Polymeric, Ceramic), Module (Spiral Woun...

Polymeric

Ceramic

Hybrid

Others

By Module:

Spiral Wound

Tubular

Hollow Fiber

Flat Sheet

Others

By Application:

Municipal

Industrial

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

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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