

Nanofiltration Membrane Market by Type (Polymeric, Ceramic, Hybrid), Module (Spiral Wound, Tubular, Hollow Fiber, Flat Sheet), Application (Municipal, Industrial), And Region (North America, Europe, Apac, South America, MEA) - Global Forecast to 2028

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Abstracts

The global nanofiltration membrane market size is projected to reach USD 1.7 billion by 2028 from USD 1.0 billion in 2023, at a CAGR of 10.8% during the forecast period. The demand for nanofiltration membranes is increasing due to the need for clean and safe drinking water. Nanofiltration is an effective water treatment solution that can remove contaminants and impurities from water. Nanofiltration membranes are used in various industrial applications, including wastewater treatment, food and beverage processing, and the dairy industry. The demand for nanofiltration membranes is increasing due to their effectiveness in these applications.

“Tubular is the second largest in terms of value amongst other modules in the nanofiltration membranes market in 2022.”

Tubular nanofiltration membrane modules are tube-like structures with porous walls that operate via tangential crossflow. The module is made of stainless steel and has a robust design that allows it to be used in systems designed for operation at up to 80 bars at 80°C, depending on the type of membrane fitted. Tubular nanofiltration membrane modules are used in various applications, including wastewater treatment, food & beverage processing, and the pharmaceutical industry. They are ideal for high solids/oily applications and can manage high concentrations of suspended solids.

“Municipal is the second largest in terms of value amongst other applications in the nanofiltration membranes market in 2022.”

Nanofiltration membranes are increasingly being used in municipal wastewater treatment due to their effectiveness in removing contaminants and improving water quality. Nanofiltration membranes are employed in the treatment of municipal wastewater. They can effectively remove ions, organic substances, and other contaminants from the wastewater, improving its quality before discharge or reuse. Nanofiltration membranes offer advantages over conventional clarification and disinfection processes in municipal treatment. They have a smaller physical footprint, require less chemical addition, and provide consistent removal of particles and microbes.

“Europe is the third largest in the nanofiltration membranes market in 2022.”

Europe is the third largest region amongst others in the nanofiltration membranes market in 2022 in terms of value. Europe has been secure from the social, economic, and environmental impacts of severe water shortages. However, as demand increases, some parts of Europe have become susceptible to water stress. The reason for this situation is the over-extraction and prolonged periods of low rainfall or drought. European water resources management focuses on a regular supply of water using a combination of reservoirs, inter-basin transfers, and increasing abstraction of both surface water and groundwater. All these factors are projected to drive the nanofiltration membranes market in the region.

The breakdown of primary interviews has been given below.

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

By Designation: C Level Executives – 20%, Director Level – 10%, Others – 70%

By Region: North America – 20%, Europe – 30%, Asia Pacific – 30%, Middle East & Africa – 10%, South America-10%.

The key players in the nanofiltration membranes market DuPont Water Solutions (US), Toray Industries, Inc. (Japan), Veolia Environnement S.A. (France), Alfa Laval AB (Sweden), GEA Group AG (Germany), Hydranautics (US), NX Filtration (Netherlands), Pall Corporation (US), Vontron Technology Co., Ltd. (China), and Pentair (US) among others. The nanofiltration membranes market report analyzes the key growth strategies, such as new product launches, investments & expansions, agreements, partnerships,

and mergers & acquisitions to strengthen their market positions.

Research Coverage

This report provides a detailed segmentation of the nanofiltration membranes market and forecasts its market size until 2028. The market has been segmented based on type (polymeric, ceramic, hybrid), module (spiral wound, tubular, hollow fiber, flat sheet), application (municipal, industrial), and region (North America, Europe, Asia Pacific, Middle East & Africa, and South America). A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisitions associated with the market for the nanofiltration membranes market.

Key benefits of buying this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape; emerging and high-growth segments of the nanofiltration membranes market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Rising industrialization and urbanization, Declining freshwater resources, Low energy consumption in nanofiltration), restraints (Fouling in nanofiltration membrane), opportunities (Rising advancements in nanofiltration membrane, Growing food & beverage industry), and challenges (Lack of awareness about advantages of membrane filtration) influencing the growth of the nanofiltration membranes market.

Market Penetration: Comprehensive information on the nanofiltration membranes offered by top players in the global nanofiltration membranes market.

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

Market Development: Comprehensive information about lucrative emerging

markets — the report analyzes the markets for nanofiltration membranes market across regions.

Market Diversification: Exhaustive information about new products, growing geographies, and recent developments in the nanofiltration membranes market.

Competitive Assessment: In-depth assessment of market segments, growth strategies, revenue analysis, and products of the leading market players.

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Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats) might not be captured in case of unlisted companies.

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