

North America Spiral Membrane Market Forecast to 2031 - Regional Analysis - by Membrane Type (Polyethersulfone, Polyamide, Fluoropolymers, and Others), Technology (Microfiltration, Ultrafiltration, Nanofiltration, and Reverse Osmosis), and End User [Food and Beverages, Dairy and Dairy Products, Brewery, Plant Based Products, Extracts, Others, Biotech and Biochemical, Pharma and Healthcare, Water Treatment (Municipal), Wastewater (Industrial), Chemicals, Oil & Gas, Textile/Pulp & Paper Industry, and Others]

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Abstracts

The North America spiral membrane market was valued at US\$ 889.91 million in 2023 and is expected to reach US\$ 1,763.19 million by 2031; it is estimated to register a CAGR of 8.9% from 2023 to 2031.

Growing Water and Wastewater Treatment Activities Fuel North America Spiral Membrane Market

Spiral membrane provides a higher packing density, making it a more efficient membrane material and leading to improved filtration capacity and separation performance. The spiral membrane consists of a spiral-wound configuration, which enables a high surface area within a smaller filtration area. Owing to its enhanced efficiency, the spiral membrane is crucial in applications such as treatment of municipal waste and industrial waste where optimal separation is paramount. Thus, the rise in

water and wastewater treatment activities fuels the spiral membrane market growth. In August 2022, the United States Department of Agriculture (USDA) announced a US\$ 75 million investment in infrastructure improvements that involves providing clean drinking water and sanitary wastewater systems to Greenbrier County residents in the rural area. In December 2022, the US announced a US\$ 84.7 million investment from President Biden's Bipartisan Infrastructure Act to help 36 communities in drought. Also, in March 2022, the US Department of the Interior stated that the Bureau of Reclamation invested US\$ 420 million in rural water-building efforts in fiscal year 2022. This investment in rural water systems involves work associated with pipeline connections, the building of water treatment facilities and intakes, pump systems, reservoir construction, and other activities to deliver potable water to rural and tribal populations. These projects have brought clean, dependable drinking water to communities across the West of the US by investing in rainwater harvesting, groundwater storage, water reuse, aquifer recharge, ion exchange treatment, and other methods for extending the utilization of existing water supplies. Owing to such investments in the development of water treatment and management plants, the demand for industry valves in the US has surged.

North America Spiral Membrane Market Overview

The North America spiral membrane market is anticipated to witness lucrative opportunities during the forecast period, owing to the growth of end-use industries such as water & wastewater treatment, pulp & paper, oil & gas, pharmaceuticals, food & beverages, and chemicals. Increasing population and growing urbanization in North America have raised concerns about water scarcity and propelled the need for sustainable water management practices. According to the United States Geographical Survey, each citizen in the US uses 82 gallons of water daily at home. There is a greater emphasis on treating and recycling water resources. Spiral membranes, known for their efficiency in removing contaminants and impurities from water, are becoming essential in municipal and industrial water and wastewater treatment processes. The ability of these membranes to handle large volumes of water with high levels of contaminants makes them a preferred choice for addressing the growing concerns over water quality and availability.

North America is a major hub for the pharmaceutical and healthcare industries. Per the European Federation of Pharmaceutical Industries and Associations, in 2022, North America accounted for 52.3% of the world's pharmaceutical sales. The pharmaceutical industry is required to maintain exceptionally high levels of purity and quality in both products and manufacturing processes. Spiral membranes play a crucial role in

achieving these standards by providing efficient and reliable filtration solutions that can remove contaminants, particulates, and microorganisms from water and other solvents used in pharmaceutical production.

Stringent regulatory standards in North America, particularly in industries such as pharmaceuticals and food production, mandate strict control over the presence of chemical impurities and toxins. To comply with these regulations, companies increasingly incorporate spiral membranes into their processes to ensure that their products meet stringent purity levels. The imposition of regulatory standards propels the adoption of spiral membranes as an integral part of quality assurance protocols.

North America Spiral Membrane Market Revenue and Forecast to 2031 (US\$ Million)

North America Spiral Membrane Market Segmentation

The North America spiral membrane market is categorized into membrane type, technology, end user, and country.

Based on membrane type, the North America spiral membrane market is segmented into polyethersulfone, polyamide, fluoropolymers, and others. The polyamide segment held the largest North America spiral membrane market share in 2023.

In terms of technology, the North America spiral membrane market is segmented into microfiltration, ultrafiltration, nanofiltration, and reverse osmosis. The ultrafiltration segment held the largest North America spiral membrane market share in 2023.

By end user, the North America spiral membrane market is divided into food and beverages, dairy and dairy products, brewery, plant based products, extracts, others, biotech and biochemical, pharma and healthcare, water treatment (municipal), wastewater (industrial), chemicals, oil and gas, textile/pulp and paper industry, and others. The water treatment (municipal) segment held the largest North America spiral membrane market share in 2023.

By country, the North America spiral membrane market is segmented into the US, Canada, and Mexico. The US dominated the North America spiral membrane market share in 2023.

Alfa Laval AB; Toray Industries Inc; GEA Group AG; MANN+HUMMEL International GmbH & Co. KG; DuPont de Nemours Inc; Pentair Plc; Solecta, Inc.; Kovalus

Separation Solutions Inc; TAMI Industries S.A.S; Synder Filtration Inc; UNISOL Membrane Technology; Membranium; AXEON Water Technologies; Nitto Denko Corporation; Veolia Environnement SA; and Membracon (UK) Ltd. are some of the leading companies operating in the North America spiral membrane market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the North America spiral membrane market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the North America spiral membrane market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth North America market trends and outlook coupled with the factors driving the North America spiral membrane market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - North America Spiral Membrane Market

Alfa Laval AB

Toray Industries Inc

GEA Group AG

MANN+HUMMEL International GmbH & Co. KG

DuPont de Nemours Inc

Pentair Plc

Solecta, Inc.

Kovalus Separation Solutions Inc

TAMI Industries S.A.S

Synder Filtration Inc

UNISOL Membrane Technology

Membranium

AXEON Water Technologies

Nitto Denko Corporation

Veolia Environnement SA

Membracon (UK) Ltd

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