

Asia Pacific 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 and Gas, Textile/Pulp and Paper Industry, and Others]

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Abstracts

The Asia Pacific spiral membrane market was valued at US\$ 1,509.64 million in 2023 and is expected to reach US\$ 3,318.38 million by 2031; it is estimated to register a CAGR of 10.3% from 2023 to 2031.

Increasing Industrialization Coupled with Stringent Government Regulation for Environmental Safety Boosts Asia Pacific Spiral Membrane Market

Significant investment prospects and restructured business models in the post-pandemic scenario are the main factors contributing to rapid industrialization. As developing economies undergo significant transformation, with rapid growth in manufacturing, construction, and industrial sectors, the reliance on filtration solutions becomes paramount. As per the data published by State Council Information Office of China (SCIO) in 2022, industrial output in China increased by 3.6% from the previous

year. With a surge in production activities, the need for filtration in manufacturing processes has also increased, which requires efficient filtration membranes. Hence, spiral membranes are experiencing increased demand to ensure optimal performance and filtration efficiency in industrial processes such as industrial waste treatment. These membranes are widely used in nanofiltration or reverse osmosis across various industries, such as oil & gas, textile, paper & pulp, chemicals, petrochemicals, food & beverages, and pharmaceuticals. Moreover, the rise in government initiatives for achieving environmental safety and sustainability goals by imposing regulations on manufacturing industries is increasing the adoption of filtration processes. As a result, the demand for cleaning and recycling water technology, such as spiral membrane modules, is growing in China. The Government of China has set a target to treat 95% of wastewater in all cities and reach 25% water reuse rate in areas with low water capacity. Further, the Government of India has imposed several environmental regulations to protect the environment and control growing pollution levels. Regulations such as the Water Act of 1974, the Air Act of 1981, and the Environmental Act of 1986 were placed to provide a cleaner environment in India. Thus, the rapid industrialization in developing economies and stringent government regulation for environmental safety are expected to create lucrative opportunities for the spiral membrane market growth during the forecast period.

Asia Pacific Spiral Membrane Market Overview

Asia Pacific has been noticed as one of the prominent markets for the utilization of spiral membranes owing to the growing chemical, pharmaceutical, and oil & gas sectors and rising urbanization leading to increasing demand for water and wastewater treatment. Moreover, government initiatives and policies such as Make in India encourage the setup of different manufacturing plants in India. The increase in foreign direct investments also leads to regional economic growth, boosting industrialization. The chemical manufacturing industry is integral to the manufactured exports of several Asian nations, including China, India, South Korea, and Japan. According to the International Council of Chemical Associations (ICCA), the Asia Pacific chemical industry is the largest contributor to GDP and jobs, generating 45% of the industry's total annual economic value and 69% of all jobs supported.

There is a growing demand for oil and gas in Asia Pacific. Per the International Energy Agency, the global oil demand rebounded in 2021, and Asia is expected to account for 77% of oil demand growth by 2025. As countries in the region experience rapid industrialization and economic growth, the demand for oil and gas has increased. The exploration, extraction, and refining processes generate large volumes of wastewater

and produce water containing various contaminants, including hydrocarbons, heavy metals, and suspended solids. Spiral membranes are highly effective in treating these complex effluents, ensuring that the quality of water meets stringent environmental regulations before being discharged or reused, thereby minimizing environmental impact.

Water treatment is another significant factor driving the demand for spiral membranes in Asia Pacific. With the rising population, growing urbanization, and increasing industrial activities, there is a mounting need for clean and safe drinking water and effective wastewater treatment. According to the Asian Development Bank, as the population in Asia Pacific is increasingly flowing to the cities-2.5 billion or 55% of the population is predicted to live in urban areas by 2030-water demand is projected to increase by nearly 55%. Spiral membranes serve as effective tools in the water treatment process, selectively removing metal ions and ensuring the purity of treated water. Thus, as the region progresses and industrializes, the spiral membrane market in Asia Pacific is expected to witness opportunities in the coming years.

Asia Pacific Spiral Membrane Market Revenue and Forecast to 2031 (US\$ Million)

Asia Pacific Spiral Membrane Market Segmentation

The Asia Pacific spiral membrane market is categorized into membrane type, technology, end user, and country.

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

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

By end user, the Asia Pacific 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 Asia Pacific spiral membrane market share in 2023.

By country, the Asia Pacific spiral membrane market is segmented into Australia, India, China, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific 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; UNISOL Membrane Technology; Membranium; Inopor; Nitto Denko Corporation; Veolia Environnement SA; and Membracon (UK) Ltd are some of the leading companies operating in the Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific market trends and outlook coupled with the factors driving the Asia Pacific 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 - Asia Pacific 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

UNISOL Membrane Technology

Membranium

Nitto Denko Corporation

Veolia Environnement SA

Membracon (UK) Ltd

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