

# **Spiral Membrane Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Membrane Type (Polyethersulfone, Polyamide, Fluoropolymers, and Others), Technology (Microfiltration, Ultrafiltration, Nanofiltration, and Reverse Osmosis), End User [Food and Beverages, Biotech and Biochemical, Pharma and Healthcare, Water Treatment (Municipal), Wastewater (Industrial), Chemicals, Oil and Gas, Textile/Pulp and Paper Industry, and Others], and Geography**

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## **Abstracts**

The spiral membrane market size was valued at US\$ 4.31 billion in 2023 and is projected to reach US\$ 8.89 billion by 2031; it is estimated to register a CAGR of 9.5% from 2023 to 2031.

Spiral membranes are highly used in water treatment applications such as purification of industrial water, drainage purification, sewage treatment, and wastewater treatment. 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. Thus, owing to its enhanced efficiency, the spiral membrane is crucial in applications such as the treatment of municipal waste and industrial waste, where optimal separation is paramount. Governments of many countries worldwide are encouraging water and wastewater

treatment practices. Various countries in Europe are working toward achieving wastewater treatment targets, protecting sensitive water systems, and utilizing wastewater sludge.

Based on membrane type, the spiral membrane market is segmented into polyethersulfone, polyamide, fluoropolymers, and others. In 2023, the polyamide segment held the largest market share and is expected to register the highest CAGR from 2023 to 2031. Polyamide membranes are composed of polyamide, a type of polymer known for its high mechanical strength, chemical resistance, and excellent filtration properties. The spiral configuration involves winding the membrane sheets around a central tube, creating a compact and efficient design that maximizes surface area while minimizing footprint. This structure allows for high permeability and selectivity, enabling the removal of various contaminants, including salts, microorganisms, and organic compounds. Polyamide spiral membranes operate under high pressure, forcing water through the semipermeable membrane while retaining impurities. These membranes are favored in applications requiring high-purity water, such as desalination and wastewater treatment, as well as a few applications in the food & beverages industry.

In 2023, Asia Pacific held a significant share of the spiral membrane market. Asia Pacific has been recognized 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 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 leads to regional economic growth, which promotes industrialization. The chemical manufacturing industry is integral to the exports of manufactured goods from China, India, South Korea, Japan, and other countries in Asia Pacific.

Alfa Laval AB; Toray Industries Inc; GEA Group; MANN+HUMMEL International GmbH & Co. KG; DuPont de Nemours Inc; Pentair Plc; PCI Membranes; Solecta, Inc.; Atech Innovations GmbH; Kovalus Separation Solutions Inc; TAMI Industries S.A.S; Synder Filtration Inc; UNISOL Membrane Technology; Membranium; AXEON Water Technologies; Inopor; Nitto Denko Corporation; Veolia Environnement SA; and Membracon (UK) Ltd are among the prominent players profiled in the spiral membrane market report. In addition, several other players have been studied and analyzed during the study to get a holistic view of the market and its ecosystem. The spiral membrane market report also includes company positioning and concentration to evaluate the performance of competitors/players in the market.

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The overall global spiral membrane market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. Participants in this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the spiral membrane market.

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## **14. APPENDIX**

- 14.1 About The Insight Partners

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