

Spiral Membrane Market by Polymer Type (Polyamide, PS & PES), Technology (RO, NF, UF, and MF), End-use Industry (Water & Wastewater Treatment, Food & Beverage, Pharmaceutical & Biotechnology, Oil & Gas), and Region - Global Forecast to 2023

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Abstracts

“The spiral membrane market is projected to grow at a CAGR of 10.0% from 2018 to 2023.”

The spiral membrane market is projected to grow from USD 5.10 billion in 2018 to USD 8.20 billion by 2023, at a CAGR of 10.0% from 2018 to 2023. The scarcity of pure water propels the reuse and treatment of wastewater, which attributed to the growth of advanced membrane technologies like Reverse osmosis and nanofiltration. Moreover, Stringent regulatory and sustainability mandates have increased the demand for water purification and wastewater treatment. These scenario drives the demand for spiral membrane, globally. However, requirement of high operating cost for the end-users is considered as the major restraint of the spiral membrane market.

“Water & wastewater treatment to dominate the spiral membrane market throughout forecast period”

Water & Wastewater treatment to dominate the spiral membrane market throughout the forecast period. Increased investments in municipal water supply infrastructures in emerging countries, such as India, China, and Indonesia, among others, and steps to access safe drinking water supplies and sanitation facilities are expected to propel the demand for spiral membranes. The rapidly growing population and urbanization is leading to the increased demand for clean water. This, in turn, is increasing the use of spiral membrane in the water & wastewater treatment industry.

“Reverse osmosis to be the dominating technology for spiral membrane”

Reverse osmosis (RO) is the most advanced, cost effective, pure and safest water treatment technology among all (reverse osmosis, nanofiltration, ultrafiltration, and microfiltration). Spiral-wound membrane module is used in more than 90% of the RO technology. RO is the most popular membrane technology in both municipal and industrial water & wastewater applications.

“Polyamide to be the dominating polymer type for spiral membrane”

Polyamide is the largest polymer type for spiral membrane due to its lower cost, better chlorine tolerance and permeation properties than the other polymers. It is the most widely used membrane in NF and RO technologies, as it can withstand the high pressure requirement of the water treatment processes and provides more flexible operating conditions.

“APAC spiral membrane market projected to grow at the highest CAGR during forecast period”

Increasing demand from end-use industries such as water & wastewater treatment, chemical & petrochemical, pharmaceutical, food & beverage, and others is expected to drive the market for spiral membrane in the APAC region. China is the biggest market in the world for spiral membrane owing to its well-established industrial base. The growing urbanization and industrialization is leading to in the increased demand for potable water, which, in turn, is influencing the APAC spiral membrane market in the water & wastewater treatment industry. The rise in implementation of stringent environmental regulations in the developed as well as emerging economies is also a major driver for the global spiral membrane market.

The market sizes estimated in this study have been validated through primary interviews conducted with various industry experts, globally. These primary sources have been divided into three categories:

By Company Type: Tier I - 58%, Tier II - 35%, and Tier III - 7%

By Designation: C Level - 38%, Director Level - 50%, and Others - 12%

By Region: APAC - 30%, North America - 22%, Europe - 25%, Middle East &

Africa - 13%, and South America - 20%

The report profiles several leading players of the spiral membrane market that include DowDuPont Inc. (US), Toray Industries, Inc. (US), Hydranautics (US), LG Water Solutions (South Korea), SUEZ Water Technologies and Solutions (France), Merck Group (Germany), Pentair plc (US), Koch Membrane Systems (US), Pall Corporation (US), and Lanxess (Germany). The report also includes detailed information about various growth strategies adopted by these key players to strengthen their position in the spiral membrane market.

RESEARCH COVERAGE

The objective of this study is to define, describe, and forecast the spiral membrane market based on various segmentations and strategically analyze these market segments with respect to individual growth trends, growth prospects, and contribution to the overall spiral membrane market. In this report, the spiral membrane market has been segmented based on type, module type, application, and region.

REASONS TO BUY THE REPORT

The report is expected to help market leaders/new entrants in the spiral membrane market in the following ways:

1. This report comprehensively segments the spiral membrane market and provides the closest approximations for the sizes of different segments and subsegments of the market across different verticals and regions.
2. This report is expected to help stakeholders in obtaining an improved understanding of their competitors and gain insights about their businesses. The competitive landscape section includes detailed information about mergers, acquisitions & joint ventures; new product and technology developments; investments & expansions; and partnerships, agreements & collaborations that have been undertaken by various key players to enhance their position in the spiral membrane market.

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About

The report "Spiral Membrane Market by Polymer Type (Polyamide, PS & PES), Technology (RO, NF, UF, and MF), End-use Industry (Water & Wastewater Treatment, Food & Beverage, Pharmaceutical & Biotechnology, Oil & Gas), and Region - Global Forecast to 2023" The spiral membrane market is projected to grow from USD 5.10 billion in 2018 to USD 8.20 billion by 2023, at a CAGR of 10.0% from 2018 to 2023. Increasing awareness of water & wastewater treatment and requirement of selective separation for meeting water quality standards are the major drivers for the spiral membrane market. In addition, stringent environmental regulations in many countries are also expected to drive the spiral membrane market during the forecast period.

Major companies profiled in this report include:

DowDuPont Inc. (US), Toray Industries, Inc. (US), Hydranautics (US), LG Water Solutions (South Korea), SUEZ Water Technologies and Solutions (France), Merck Group (Germany), Pentair plc (US), Koch Membrane Systems (US), Pall Corporation (US), and Lanxess (Germany) among others. The report also includes detailed information about various growth strategies adopted by these key players to strengthen their position in the spiral membrane market.

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the overall spiral membrane market. In this report, the spiral membrane market has been segmented based on type, module type, application, and region.

DowDuPont (US) has gained a strong foothold in the spiral membrane market. The company is backed by its extremely strong and in-depth product portfolio of membrane technologies. The company continuously aims to create value for the customer through its diversified and market-driven portfolio in various businesses. The major reason for DowDuPont maintaining its market position is the successful leveraging of cost and scale advantage in addition to the strong worldwide presence. The company focuses on continuous R&D and innovation in an attempt to solving some of the world's most challenging problems such as the need for clean water, increasing agricultural productivity, clean energy generation, and conservation.

Pentair plc (US) is another major player operating in the spiral membrane market. The company has held several exhibitions to increase its market awareness and presence and has also launched new products regularly. The company focused on acquisition as its major business strategy for its overall growth of the company. For instance, in 2016, the company acquired TCK Membrane America Inc. (Calif), a manufacturer of CSM RO/NF membranes. In addition, the other business strategy followed by the company also adopts other business strategies is to grow its network through various supply contracts with its expertise in the entire spectrum of high-performance spiral membranes including RO membranes, NF membranes, UF membranes, MF membranes, and membrane bioreactors (MBR).

Polyamide segment to lead spiral membrane market during forecast period

Based on type, the polyamide segment is projected to lead the spiral membrane market during the forecast period. Polyamide type is estimated to have accounted for the largest market share due to its easy availability and cost-efficiency. In addition, these membranes possess lower pressure requirements and more flexible operating conditions which makes them suitable for municipal and industrial effluent treatment application.

Water & wastewater treatment segment projected to grow at highest CAGR during forecast period

Based on end-use industry, the water & wastewater treatment segment is projected to grow at the highest CAGR from 2018 to 2023. Spiral membranes are widely used in various industries such as food & beverage, pharmaceutical, chemical & petrochemical,

and textile industries. The technology is used for water treatment and manufacturing processes. In addition to this, the presence of stringent regulations in various countries for effluent discharge is also a major factor for the large size of this segment. The R&D departments of manufacturing companies are carrying out research to widen the application areas, which is expected to drive the spiral membrane market during the forecast period.

APAC spiral membrane market projected to grow at highest CAGR from 2018 to 2023

The spiral membrane market in the APAC region possesses immense potential for growth. Increasing awareness of water and wastewater treatment and rising scarcity of fresh water are expected to fuel the demand for ultrafiltration during the forecast period. China, India, and Japan are some of the key countries in the region contributing significantly towards the growth of the spiral membrane market in the APAC region.

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