

# **Middle East & Africa 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 Middle East & Africa spiral membrane market was valued at US\$ 375.36 million in 2023 and is expected to reach US\$ 691.56 million by 2031; it is estimated to register a CAGR of 7.9% from 2023 to 2031.

Growing Emphasis on Using Recycled Spiral Membrane Bolsters Middle East & Africa Spiral Membrane Market

Governments and various other organizations worldwide emphasize achieving sustainability and environmental consciousness. As a result, there is a growing preference for recycled spiral membranes that are environmentally friendly. Manufacturers are taking several initiatives to develop recycled spiral membranes to meet sustainability and recycling targets. Membrane recycling refers to the reuse of polymeric membranes that have surpassed their lifespan after undergoing chemical

treatment such as upgraded or downgraded operation. In contrast, polymer recycling refers to the deformation of the entire membrane to recover the polymer for the membrane's re-preparation, among other applications. Multiple techniques of recycling including upcycling, downcycling, and regeneration, can be applied depending on the quality of the used membrane. The membranes are dissolved in the organic solvents for chemical processing, and then the new membrane is prepared. Microfiltration and ultrafiltration membranes either undergo upcycling or regeneration at the end of their lifespan, depending on the users' requirements. Similarly, nanofiltration and reverse osmosis membranes, after reaching the end of their lifecycle, are either downcycled or regenerated to meet specific industrial requirements. The advancement in technology for recycling membranes is the key factor leading to the cost-effectiveness and sustainability of membrane processes. The recycled spiral membrane is preferred for utilization in industries, which leads to the most economical and sustainable approach of reducing waste generation and recovery of resources for similar usage. Thus, the growing emphasis on using recycled spiral membranes is expected to boost the spiral membrane market growth in the coming years.

### Middle East & Africa Spiral Membrane Market Overview

The spiral membrane market growth in the Middle East & Africa is attributed to the high demand for these agents from water treatment, chemical, oil & gas, and pharmaceutical industries. In the oil & gas industry, spiral membranes find applications in various important processes and operations. As per the US Energy Information Administration, the Middle East comprises five of the top ten oil-producing countries: Saudi Arabia, Iraq, the UAE, Iran, and Kuwait. These countries are responsible for producing ~27% of the world's oil production. Spiral membranes are essential for treating produced water and wastewater generated during extraction and refining processes. Their ability to handle high contaminant loads and operate efficiently under harsh conditions makes them ideal for the demanding environments of oil and gas operations. As these industries continue to expand, the need for effective water management solutions, including spiral membranes, is growing correspondingly.

Rapid industrialization and population outburst, as well as unstable climatic conditions, have resulted in water scarcity; this scenario has triggered the necessity to recycle wastewater in the Middle East. According to the World Bank, the region's population grew from over 100 million in 1960 to more than 450 million in 2018. It is estimated to reach more than 720 million by 2050. In addition, by 2030, the water available per capita annually in the Middle East & North Africa (MENA) will drop below the absolute water scarcity threshold of 500 cubic meters per person per year. Spiral membranes

offer a robust solution for these industries by providing reliable filtration and purification capabilities. This ensures compliance with stringent environmental regulations, reduces environmental impact, and allows for the reuse of treated water, which is particularly important in water-scarce countries in the Middle East & Africa.

Middle East & Africa Spiral Membrane Market Revenue and Forecast to 2031 (US\$ Million)

Middle East & Africa Spiral Membrane Market Segmentation

The Middle East & Africa spiral membrane market is categorized into membrane type, technology, end user, and country.

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

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

By end user, the Middle East & Africa 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 Middle East & Africa spiral membrane market share in 2023.

By country, the Middle East & Africa spiral membrane market is segmented into South Africa, the UAE, Saudi Arabia, and the Rest of Middle East & Africa. The Rest of Middle East & Africa dominated the Middle East & Africa 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, UNISOL Membrane Technology, Membranium, Nitto Denko Corporation, and Veolia Environnement SA are some of the leading companies

operating in the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa market trends and outlook coupled with the factors driving the Middle East & Africa 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.

### Companies

Alfa Laval AB

Toray Industries Inc

GEA Group AG

MANN+HUMMEL International GmbH & Co. KG

DuPont de Nemours Inc

Pentair Plc

Kovalus Separation Solutions Inc

UNISOL Membrane Technology

Membranium

Nitto Denko Corporation

Veolia Environnement SA

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