

Middle East & Africa Membrane Separation Systems Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Technology (Reverse Osmosis, Microfiltration, Ultrafiltration, Nanofiltration, Ion Exchange, and Others), Application (Environmental, Food and Beverages, Healthcare, and Others), and Material [Polyethersulfone (PES), Polysulfone (PSF), Polypropylene (PP), Polyvinylidene Fluoride (PVDF), Polyacrylonitrile (PAN), and Others]

<https://marketpublishers.com/r/MD05AD9FC878EN.html>

Date: January 2023

Pages: 149

Price: US\$ 3,000.00 (Single User License)

ID: MD05AD9FC878EN

Abstracts

The MEA membrane separation systems market is expected to grow from US\$ 1,149.43 million in 2022 to US\$ 1,836.66 million by 2028. It is estimated to record a CAGR of 8.1% from 2022 to 2028.

New Classes of Membranes Developed for Gas Separations to Bolster MEA Membrane Separation Systems

Market Growth

Polymer is the most widely used membrane material for gas separation. Polymers are the suitable choice of membranes as they can be processed into hollow fibers with high surface areas. The relatively low cost of manufacturing fibers makes them acceptable for large-scale industrial applications. Examples of such membranes are the MEDAL and PRISM membranes produced by Air Liquide and Air Products for a wide range of gas separation applications. Polymeric gas separation membranes have become competent over the past few decades. These membranes are currently used in

industries for hydrogen separation, e.g., hydrogen/nitrogen separation in ammonia plants and hydrogen/hydrocarbon separation in petrochemical applications. Moreover, various new membranes such as thermally rearranged polymers, intrinsic microporosity polymers, room-temperature ionic liquids, perfluoro polymers, and mixed matrix membranes with high separation performance are developed for gas separations. Mixed matrix membranes (MMMs) are the new hybrid composite membranes in which the inorganic nano or micro-sized particles are homogeneously integrated into the polymer matrix. Therefore, the growing trend of new class of membranes is expected to drive the MEA membrane separation systems market .

MEA Membrane Separation Systems Market Overview

The MEA membrane separation systems market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of MEA. South Africa held the largest share of the regional market in 2022. The growing population and rising economy have increased water consumption and wastewater discharge. Industrial end users are increasingly using membrane technology to manage their wastewater streams. South Africa's limited sources of surface water and changing weather patterns are driving up water prices, which are making it vital for industrial water users to find effective ways to treat wastewater. Industrial companies are also moving toward wastewater recycling, driving the demand for membrane technology. A significant rise in spending on water-related schemes and projects would accelerate the growth of the wastewater treatment chemicals market in South Africa during the forecast period.

MEA Membrane Separation Systems Market Revenue and Forecast to 2028 (US\$ Million)

MEA Membrane Separation Systems Market Segmentation

The MEA membrane separation systems market is segmented based on technology, application, material, and country.

Based on technology, the MEA membrane separation systems market is segmented into reverse osmosis, microfiltration, ultrafiltration, nanofiltration, ion exchange, and others. The reverse osmosis segment held the largest market share in 2022.

Based on application, the MEA membrane separation systems market is segmented into environmental, food and beverages, healthcare, and others. The environmental segment held the largest market share in 2022.

Based on material, the MEA membrane separation systems market is segmented into polyethersulfone (PES), polysulfone (PSF), polypropylene (PP), polyvinylidene Fluoride (PVDF), polyacrylonitrile (PAN), and others. The others segment held the largest market share in 2022.

Based on country, the MEA membrane separation systems market has been categorized into South Africa, Saudi Arabia, the UAE, and the Rest of MEA. Our regional analysis states that the Rest of MEA dominated the market share in 2022.

3M, Alfa Laval AB, DuPont de Nemours Inc, GEA Group AG, Hydranautics, Koch Separation Systems Inc, MANN+HUMMEL International GmbH & Co KG, Pentair Plc, ProMinent GmbH, and Veolia Water Technologies SASU are the leading companies operating in the MEA membrane separation systems market.

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