

**South America 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]**

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**AVAILABLE LICENSES:**

- Single User Price \$3000.00
- Site Price \$4000.00
- Enterprise Price \$5000.00

**Report description:**

The SAM membrane separation systems market is expected to grow from US\$ 1,656.66 million in 2022 to US\$ 2,695.61 million by 2028. It is estimated to record a CAGR of 8.5% from 2022 to 2028.

New Classes of Membranes Developed for Gas Separations is Fueling the SAM Membrane Separation Systems Market

The most widely used membrane material for gas separation is polymer at present. 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 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, polymers of intrinsic micro porosity, room-temperature ionic liquids, perfluoro polymers, and mixed matrix membranes with high separation performance are

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developed for gas separations. The mixed matrix membranes (MMMs) are a new class of hybrid composite membranes in which the inorganic nano or micro-sized particles are homogeneously integrated into the polymer matrix. Therefore, growing trend of new class of membranes is expected to drive the SAM membrane separation systems market .

## Market Overview

The SAM membrane separation systems market is segmented into Brazil, Argentina, and the Rest of SAM. Brazil held the largest market share in 2022. The municipal water & wastewater treatment market in Brazil is growing due to the recent changes in legislation that allows greater participation from the private sector in upcoming bid and tender processes. Regarding coverage, around 40% of the sewage generated in Brazil is treated, with an estimated number of treatment plants of 2,800. An innovative program called PRODES (Programa Despoluicao de Bacias Hidrograficas, or "Basin Restoration Program") by the National Water Agency (ANA) aims to encourage public and private companies to implement new treatment plants and improve the performance of existing wastewater treatment systems based on a system of financial incentives according to the monitored reduction in pollutant loads. Thus, the rising demand for wastewater treatment and establishment of programs such as PRODES are propelling the demand for membrane separation systems in Brazil.

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

### SAM Membrane Separation Systems Market Segmentation

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

Based on technology, the SAM 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 SAM 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 SAM 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 SAM membrane separation systems market has been categorized into Brazil, Argentina, and the Rest of SAM. Our regional analysis states that Brazil 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 SAM membrane separation systems market.

## Table of Contents:

### TABLE OF CONTENTS

1. Introduction
  - 1.1 Scope of the Study
  - 1.2 The Insight Partners Research Report Guidance
  - 1.3 Market Segmentation
    - 1.3.1 SAM Membrane Separation System Market - By Technology

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- 1.3.2 SAM Membrane Separation System Market - By Application
- 1.3.3 SAM Membrane Separation System Market - By Material
- 1.3.4 SAM Membrane Separation System Market - By Country
- 2. Key Takeaways
- 3. Research Methodology
  - 3.1 Coverage
  - 3.2 Secondary Research
  - 3.3 Primary Research
- 4. SAM Membrane Separation System Market - Market Landscape
  - 4.1 Overview
  - 4.2 SAM PEST Analysis
  - 4.3 Experts Opinion
- 5. SAM Membrane Separation System Market - Key Market Dynamics
  - 5.1 Market Drivers
    - 5.1.1 Extensive Use in Wastewater Treatment
    - 5.1.2 Wide Range of Applications in Dairy Industry
  - 5.2 Market Restraints
    - 5.2.1 Complex Nature of Membrane Separation
  - 5.3 Market Opportunities
    - 5.3.1 Development of High-Performance Nanostructured Material
  - 5.4 Future Trends
    - 5.4.1 New Classes of Membranes Developed for Gas Separations
  - 5.5 Impact Analysis
- 6. Membrane Separation System Market - SAM Analysis
  - 6.1 SAM Membrane Separation Systems Market Revenue Forecast and Analysis
- 7. SAM Membrane Separation Systems Market Analysis - By Technology
  - 7.1 Overview
  - 7.2 SAM Membrane Separation Systems Market, By Technology 2021 & 2028 (%)
  - 7.3 Reverse Osmosis
    - 7.3.1 Overview
    - 7.3.2 Reverse Osmosis Market Revenue and Forecast to 2028 (US\$ Million)
    - 7.3.3 Reverse Osmosis: SAM Market Revenue and Forecasts To 2028 (US\$ Million)
  - 7.4 Microfiltration
    - 7.4.1 Overview
    - 7.4.2 Microfiltration Market Revenue and Forecast to 2028 (US\$ Million)
  - 7.5 Ultrafiltration
    - 7.5.1 Overview
    - 7.5.2 Ultrafiltration Market Revenue and Forecast to 2028 (US\$ Million)
  - 7.6 Nanofiltration
    - 7.6.1 Overview
    - 7.6.2 Nanofiltration Market Revenue and Forecast to 2028 (US\$ Million)
  - 7.7 Ion Exchange
    - 7.7.1 Overview
    - 7.7.2 Ion Exchange Market Revenue and Forecast to 2028 (US\$ Million)
  - 7.8 Others
    - 7.8.1 Overview
    - 7.8.2 Others Market Revenue and Forecast to 2028 (US\$ Million)

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- 8. SAM Membrane Separation System Market Analysis - By Application
  - 8.1 Overview
  - 8.2 SAM Membrane Separation System Market, By Application, 2021 & 2028 (%)
  - 8.3 Environmental
    - 8.3.1 Overview
    - 8.3.2 Environmental: Membrane Separation System Market Revenue and Forecasts to 2028 (US\$ Million)
  - 8.4 Food & Beverages
    - 8.4.1 Overview
    - 8.4.2 Food & Beverages: Membrane Separation System Market Revenue and Forecasts to 2028 (US\$ Million)
  - 8.5 Healthcare
    - 8.5.1 Overview
    - 8.5.2 Healthcare: Membrane Separation System Market Revenue and Forecasts to 2028 (US\$ Million)
  - 8.6 Others
    - 8.6.1 Overview
    - 8.6.2 Others: Membrane Separation System Market Revenue and Forecasts to 2028 (US\$ Million)
- 9. SAM Membrane Separation Systems Market Analysis - By Material
  - 9.1 Overview
  - 9.2 SAM Membrane Separation Systems Market, By Material 2021 & 2028 (%)
  - 9.3 Polyethersulphones
    - 9.3.1 Overview
    - 9.3.2 Polyethersulphones Market Revenue and Forecast to 2028 (US\$ Million)
  - 9.4 Polysulphones
    - 9.4.1 Overview
    - 9.4.2 Polysulphones Market Revenue and Forecast to 2028 (US\$ Million)
  - 9.5 Polyvinylidene Fluoride (PVDF)
    - 9.5.1 Overview
    - 9.5.2 Polyvinylidene Fluoride (PVDF) Market Revenue and Forecast to 2028 (US\$ Million)
  - 9.6 Polypropylene (PP)
    - 9.6.1 Overview
    - 9.6.2 Polypropylene (PP) Market Revenue and Forecast to 2028 (US\$ Million)
    - 9.6.3 Polypropylene (PP): SAM Market Revenue and Forecasts To 2028 (US\$ Million)
  - 9.7 Polyacrylonitrile (PAN)
    - 9.7.1 Overview
    - 9.7.2 Polyacrylonitrile (PAN) Market Revenue and Forecast to 2028 (US\$ Million)
  - 9.8 Others
    - 9.8.1 Overview
    - 9.8.2 Others Market Revenue and Forecast to 2028 (US\$ Million)
- 10. SAM Membrane Separation System Market - Country Analysis
  - 10.1 Overview
    - 10.1.1 SAM: Membrane Separation System Market, by Country, 2021 & 2028 (%)
      - 10.1.1.1 Brazil: Membrane Separation System Market - Revenue and Forecast to 2028 (US\$ Million)
        - 10.1.1.1.1 Overview
        - 10.1.1.1.2 Brazil: Membrane Separation System Market - Revenue and Forecast to 2028 (US\$ Million)
        - 10.1.1.1.3 Brazil: Membrane Separation System Market, by Technology, 2020-2028 (US\$ Million)
        - 10.1.1.1.4 Brazil: Membrane Separation System Market, by Application, 2020-2028 (US\$ Million)
        - 10.1.1.1.5 Brazil: Membrane Separation System Market, by Material, 2020-2028 (US\$ Million)
      - 10.1.1.2 Argentina: Membrane Separation System Market - Revenue and Forecast to 2028 (US\$ Million)

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- 10.1.1.2.1 Overview
- 10.1.1.2.2 Argentina: Membrane Separation System Market - Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.2.3 Argentina: Membrane Separation System Market, by Technology, 2020-2028 (US\$ Million)
- 10.1.1.2.4 Argentina: Membrane Separation System Market, by Application, 2020-2028 (US\$ Million)
- 10.1.1.2.5 Argentina: Membrane Separation System Market, by Material, 2020-2028 (US\$ Million)
- 10.1.1.3 Rest of SAM: Membrane Separation System Market - Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.3.1 Overview
- 10.1.1.3.2 Rest of SAM: Membrane Separation System Market - Revenue and Forecast to 2028 (US\$ Million)
- 10.1.1.3.3 Rest of SAM: Membrane Separation System Market, by Technology, 2020-2028 (US\$ Million)
- 10.1.1.3.4 Rest of SAM: Membrane Separation System Market, by Application, 2020-2028 (US\$ Million)
- 10.1.1.3.5 Rest of SAM: Membrane Separation System Market, by Material, 2020-2028 (US\$ Million)
- 11. Industry Landscape
- 11.1 Overview
- 11.2 Inorganic Growth Strategies
- 11.2.1 Overview
- 11.3 Organic Growth Strategies
- 11.3.1 Overview
- 12. Company Profiles
- 12.1 3M
- 12.1.1 Key Facts
- 12.1.2 Business Description
- 12.1.3 Products and Services
- 12.1.4 Financial Overview
- 12.1.5 SWOT Analysis
- 12.1.6 Key Developments
- 12.2 Koch Separation Systems Inc
- 12.2.1 Key Facts
- 12.2.2 Business Description
- 12.2.3 Products and Services
- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments
- 12.3 MANN+HUMMEL International GmbH & Co KG
- 12.3.1 Key Facts
- 12.3.2 Business Description
- 12.3.3 Products and Services
- 12.3.4 Financial Overview
- 12.3.5 SWOT Analysis
- 12.3.6 Key Developments
- 12.4 Pentair Plc
- 12.4.1 Key Facts
- 12.4.2 Business Description
- 12.4.3 Products and Services
- 12.4.4 Financial Overview
- 12.4.5 SWOT Analysis
- 12.4.6 Key Developments
- 12.5 Hydranautics

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- 12.5.1 Key Facts
- 12.5.2 Business Description
- 12.5.3 Products and Services
- 12.5.4 Financial Overview
- 12.5.5 SWOT Analysis
- 12.5.6 Key Developments
- 12.6 GEA Group AG
  - 12.6.1 Key Facts
  - 12.6.2 Business Description
  - 12.6.3 Products and Services
  - 12.6.4 Financial Overview
  - 12.6.5 SWOT Analysis
  - 12.6.6 Key Developments
- 12.7 DuPont de Nemours Inc
  - 12.7.1 Key Facts
  - 12.7.2 Business Description
  - 12.7.3 Products and Services
  - 12.7.4 Financial Overview
  - 12.7.5 SWOT Analysis
  - 12.7.6 Key Developments
- 12.8 Alfa Laval AB
  - 12.8.1 Key Facts
  - 12.8.2 Business Description
  - 12.8.3 Products and Services
  - 12.8.4 Financial Overview
  - 12.8.5 SWOT Analysis
  - 12.8.6 Key Developments
- 12.9 ProMinent GmbH
  - 12.9.1 Key Facts
  - 12.9.2 Business Description
  - 12.9.3 Products and Services
  - 12.9.4 Financial Overview
  - 12.9.5 SWOT Analysis
  - 12.9.6 Key Developments
- 12.10 Veolia Water Technologies SASU
  - 12.10.1 Key Facts
  - 12.10.2 Business Description
  - 12.10.3 Products and Services
  - 12.10.4 Financial Overview
  - 12.10.5 SWOT Analysis
  - 12.10.6 Key Developments
- 13. Appendix
  - 13.1 About The Insight Partners
  - 13.2 Glossary of Terms

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