

# Gas Separation Membrane Market Size, Trends, Analysis, and Outlook By Material (Polyimide and Polyamide, Polysulfone, Cellulose Acetate, Others), By Application (Nitrogen Generation and Oxygen Enrichment, Hydrogen Recovery, Carbon Dioxide Removal, Removal of Hydrogen Sulphide, Others), by Region, Country, Segment, and Companies, 2024-2030

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## Abstracts

The global Gas Separation Membrane market size is poised to register 8.22% growth (CAGR) from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Gas Separation Membrane market By Material (Polyimide and Polyamide, Polysulfone, Cellulose Acetate, Others), By Application (Nitrogen Generation and Oxygen Enrichment, Hydrogen Recovery, Carbon Dioxide Removal, Removal of Hydrogen Sulphide, Others).

The future of gas separation membranes is driven by advancements in membrane materials, module design, and process optimization, enabling more efficient and cost-effective separation of gases in various industrial applications. With increasing global demand for clean energy, industrial gases, and environmental sustainability, there is a growing need for membrane-based technologies that can selectively capture and purify gases such as hydrogen, carbon dioxide, and methane from gas mixtures. Key trends include the development of next-generation polymeric, ceramic, and hybrid membranes with tunable pore sizes, surface chemistries, and gas permeation properties for enhanced selectivity and productivity. Additionally, there is a focus on membrane module configurations, membrane fouling mitigation strategies, and energy-efficient process designs to improve the overall performance and economics of gas separation

systems. Moreover, there is ongoing research into emerging applications of gas separation membranes such as carbon capture and storage, hydrogen purification, and natural gas processing, driving further innovation and adoption in the energy, petrochemical, and environmental sectors..

## Gas Separation Membrane Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Gas Separation Membrane market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Gas Separation Membrane survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Gas Separation Membrane industry.

## Key market trends defining the global Gas Separation Membrane demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Gas Separation Membrane Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Gas Separation Membrane industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Gas Separation Membrane companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Gas Separation Membrane industry

Leading Gas Separation Membrane companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and

surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Gas Separation Membrane companies.

### Gas Separation Membrane Market Study- Strategic Analysis Review

The Gas Separation Membrane market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Gas Separation Membrane Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Gas Separation Membrane industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Gas Separation Membrane Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America Gas Separation Membrane Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Gas Separation Membrane market segments. Similarly, Strong end-user demand is encouraging Canadian Gas Separation Membrane companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Gas Separation Membrane market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Gas Separation Membrane Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Gas Separation Membrane industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Gas Separation Membrane market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Gas Separation Membrane Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Gas Separation Membrane in Asia Pacific. In particular, China, India, and South East Asian Gas Separation Membrane markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and

comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Gas Separation Membrane Market Size Outlook- Continued urbanization and rising income levels**

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

**Middle East and Africa Gas Separation Membrane Market Size Outlook- continues its upward trajectory across segments**

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Gas Separation Membrane market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Gas Separation Membrane.

**Gas Separation Membrane Market Company Profiles**

The global Gas Separation Membrane market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Air Liquide Advanced Separations, Air Products and Chemicals Inc, DIC Corp, Evonik Industries AG, Fujifilm Corp, Generon, Honeywell International Inc, Linde PLC, Membrane Technology and Research Inc, Parker Hannifin Corp, SLB (schlumberger), Toray Industries Inc , UBE Corp.

**Recent Gas Separation Membrane Market Developments**

The global Gas Separation Membrane market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

**Gas Separation Membrane Market Report Scope**

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

### Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

### Market Segmentation:

By Type

Stationary 3D and 4D Ultrasound Devices

Portable 3D and 4D Ultrasound Devices

By Display

Color Ultrasound

B/W Ultrasound

## By Portability

Trolley or Cart-Based Ultrasound Systems

Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

## By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

Urology

Vascular

Orthopedic and Musculoskeletal

Pain Management

Others

## By End-User

Hospitals

Surgical Centers and Diagnostic Centers

Maternity Centers

Ambulatory Care Centers

Research and Academia

Others

## Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Air Liquide Advanced Separations

Air Products and Chemicals Inc

DIC Corp

Evonik Industries AG

Fujifilm Corp

Generon

Honeywell International Inc

Linde PLC

Membrane Technology and Research Inc

Parker Hannifin Corp

SLB (schlumberger)

Toray Industries Inc



UBE Corp

Formats Available: Excel, PDF, and PPT

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Compact/Handheld Ultrasound Systems

Point-of-Pare (PoC) Ultrasound Systems

By Application

Radiology or General Imaging

Obstetrics or Gynecology

Cardiology

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- Fujifilm Corp
- Generon
- Honeywell International Inc
- Linde PLC

Membrane Technology and Research Inc  
Parker Hannifin Corp  
SLB (schlumberger)  
Toray Industries Inc  
UBE Corp

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