

# Global Membranes for Gas Separation and Purification Market Growth 2026-2032

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## Abstracts

The global Membranes for Gas Separation and Purification market size is predicted to grow from US\$ 727 million in 2025 to US\$ 1030 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

Membranes for gas separation and purification are technologies that utilize the selective permeability of membrane materials to separate gases. These membranes effectively separate target gases from mixed gas streams by exploiting differences in the permeation rates of various gas molecules through the membrane material. This technology is widely used in oxygen/nitrogen separation, carbon dioxide capture, hydrogen purification, natural gas treatment, and more. Compared to traditional separation methods such as compression and condensation, membrane separation offers significant advantages in terms of energy efficiency, operational simplicity, and compact equipment size.

In the market, gas separation membranes are extensively applied in industrial production, environmental protection, and the energy sector. For industrial applications, membrane separation technology can improve gas purity while reducing energy consumption during the production process. For example, in hydrogen purification, gas membranes can efficiently separate hydrogen from gas mixtures, meeting the demand for high-purity hydrogen. In natural gas treatment, gas membranes efficiently separate harmful gases such as carbon dioxide and hydrogen sulfide, thereby enhancing the purity of natural gas. Additionally, with the growing emphasis on environmental protection globally, the increasing demand for carbon dioxide capture and emission control further expands the potential for gas separation membrane applications.

Gas separation membranes are primarily made from polymer membranes, inorganic

membranes, and composite membranes. With continuous advancements in membrane material science, the selectivity, permeability, durability, and anti-fouling properties of gas separation membranes have significantly improved. As these technologies evolve, the level of automation and scalability of membrane separation systems has also been increasing, which is driving the broader adoption of membrane separation technology across various industries.

In recent years, the development of gas separation membrane technology has entered a phase of rapid growth. With the increasing stringency of global environmental protection regulations and the rising demand for clean energy and low-carbon technologies, gas separation membranes have been widely adopted across various sectors. In the environmental protection and energy sectors, membrane separation technology has become a key technology for reducing greenhouse gas emissions and improving energy efficiency. Specifically, in carbon capture and storage (CCS) technology, the separation and capture of carbon dioxide have become one of the key measures in addressing global climate change. As membrane separation technology continues to mature in this field, the market demand for it is steadily growing.

In addition to environmental protection, the rise of the hydrogen industry has brought new opportunities for gas separation membrane technology. The demand for high-purity hydrogen is increasing, especially in energy storage and fuel cell applications. With its high-efficiency gas separation capabilities, membrane separation technology has become one of the primary technologies for hydrogen purification, meeting the demands of industries and energy production. As the hydrogen economy develops, the market demand for gas separation membranes in hydrogen separation and purification will continue to expand.

In terms of market trends, the development of gas separation membrane technology is primarily focusing on the following directions: first, research on membrane materials is moving towards high performance and high stability. The development of new composite membranes, inorganic membranes, and nanomaterials provides new opportunities to improve the selectivity and permeability of membranes. Second, with the introduction of automation and intelligent technologies, the production costs of membrane separation equipment are expected to decrease further, thereby promoting the adoption of the technology by small and medium-sized enterprises and emerging markets. Lastly, the large-scale production of membrane separation technology will drive the overall market expansion.

Looking ahead, as environmental regulations become more stringent, the hydrogen

industry continues to grow, and the focus on energy efficiency and environmental protection intensifies, the market demand for gas separation membranes will continue to rise. Meanwhile, continuous advancements in technology will gradually lower the cost of gas separation membranes, driving broader adoption across industries and contributing to sustainable development.

LP Information, Inc. (LPI) ' newest research report, the “Membranes for Gas Separation and Purification Industry Forecast” looks at past sales and reviews total world Membranes for Gas Separation and Purification sales in 2025, providing a comprehensive analysis by region and market sector of projected Membranes for Gas Separation and Purification sales for 2026 through 2032. With Membranes for Gas Separation and Purification sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Membranes for Gas Separation and Purification industry.

This Insight Report provides a comprehensive analysis of the global Membranes for Gas Separation and Purification landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Membranes for Gas Separation and Purification portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Membranes for Gas Separation and Purification market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Membranes for Gas Separation and Purification and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Membranes for Gas Separation and Purification.

This report presents a comprehensive overview, market shares, and growth opportunities of Membranes for Gas Separation and Purification market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Polymeric Membrane

Inorganic Membrane

**Segmentation by Application:**

Natural Gas Processing

Oxygen-Nitrogen Separation

CO<sub>2</sub> Capture

Hydrogen Recovery

Air Purification, etc.

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Air Products

Air Liquide

UBE

Grasys

Evonik

Fujifilm

Generon IGS

Honeywell

MTR

Borsig

Parker Hannifin

Tianbang

SSS

Huihai Membrane Materials

Guangzhou Kowoke Technology

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Membranes for Gas Separation and Purification market?

What factors are driving Membranes for Gas Separation and Purification market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Membranes for Gas Separation and Purification market opportunities vary by end market size?

How does Membranes for Gas Separation and Purification break out by Type, by

Application?

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