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Global Gas Permeation Membrane Market Growth 2026-2032

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Abstracts

The global Gas Permeation Membrane market size is predicted to grow from US$ 704 million in 2025 to US$ 1179 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

A gas permeation membrane (GPM) is a thin-film structure that utilizes the selective permeation properties of membrane materials to achieve the separation, purification, or recovery of specific gases. Its working principle is based on the differences in solubility and diffusion rates of different gases in the membrane material, allowing the target gas to preferentially pass through the membrane while other gases are blocked, thus achieving gas separation or concentration. GPMs are widely used in air separation, nitrogen production, oxygen enrichment, carbon dioxide removal, hydrogen recovery, and industrial waste gas treatment.

The GPM industry chain mainly consists of three parts: upstream raw material supply, midstream membrane preparation and membrane module manufacturing, and downstream applications and system integration. Upstream provides membrane materials such as polyamide, polyester, polytetrafluoroethylene (PTFE), and hollow fiber, as well as high-precision coating and stretching equipment. Midstream membrane manufacturers and membrane module manufacturers are responsible for membrane preparation, modular packaging, performance testing, and system integration. Downstream applications cover air separation, nitrogen production, oxygen enrichment, CO? removal, hydrogen recovery, industrial waste gas treatment, and environmental governance, achieving gas separation, purification, and concentration through membrane systems, forming a complete industry chain.

In 2024, the global production of gas permeation membranes reached 608,900 units,

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with an average selling price of US$1,131 per unit. The gross profit margin of gas permeation membranes was approximately 26%, and the production capacity was 790,000 units.

United States market for Gas Permeation Membrane is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Gas Permeation Membrane is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Gas Permeation Membrane is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Gas Permeation Membrane players cover Air Products, Air Liquide, UBE, Parker Hannifin, MTR, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Gas Permeation Membrane 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 Gas Permeation Membrane portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Gas Permeation Membrane market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gas Permeation Membrane 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-

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up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Gas Permeation Membrane.

This report presents a comprehensive overview, market shares, and growth opportunities of Gas Permeation Membrane market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Hollow Fiber Membrane

Spiral Wound Membrane

Others

Segmentation by Material:

Polymeric Membrane

Ceramic Membrane

Thin-Film Composite

Segmentation by Separation Method:

Selective Permeation Membrane

Facilitated Transport Membrane

Segmentation by Application:

Chemical Industry

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Environmental Protection

Healthcare

Others

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

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- 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
- Parker Hannifin
- MTR
- Honeywell
- Grasys
- Schlumberger

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Fujifilm

Generon IGS

Evonik

Tianbang Membrane Technology

Dalian Ouke Membrane Technology Engineering

Chengdu Saipu Ruixing Technology

Zhongkai Chemical

Borsig

Nanjing Tianmo Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gas Permeation Membrane market?

What factors are driving Gas Permeation Membrane market growth, globally and by region?

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

How do Gas Permeation Membrane market opportunities vary by end market size?

How does Gas Permeation Membrane break out by Type, by Application?

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