

# Global Gas Separation Film Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Gas Separation Film market size was valued at US\$ 892 million in 2024 and is forecast to a readjusted size of USD 1517 million by 2031 with a CAGR of 8.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Gas separation membranes are devices used to separate gas mixtures using membrane technology. These membranes operate on the principle of selective permeability, allowing gases to be separated based on differences in molecular size, polarity, and other characteristics. Gas separation membranes are widely used in fields such as natural gas purification, hydrogen production, air separation, and carbon dioxide capture. Compared to traditional separation methods such as adsorption, condensation, and chemical absorption, gas separation membranes offer higher efficiency, lower energy consumption, and reduced environmental impact.

With the increasing global demand for environmental protection, the gas separation membrane market has been rapidly growing, especially in industries like energy, chemicals, and environmental protection. Membrane separation technology is gradually replacing traditional separation methods in these sectors. The demand for gas separation membranes is expanding, particularly in natural gas processing, hydrogen purification, and carbon capture applications. The global rise in clean energy demand and the promotion of environmental policies are driving the adoption and development of gas separation membrane technologies.

Currently, gas separation membrane technology has made significant advancements in natural gas processing, hydrogen production, and carbon dioxide capture. In particular, gas separation membranes demonstrate unique advantages in natural gas purification and hydrogen refining. Impurities like carbon dioxide and hydrogen sulfide in natural gas are typically removed using gas separation membranes to meet industrial and commercial requirements. In hydrogen production, gas separation membranes are widely used to purify hydrogen, improving the efficiency of clean energy technologies such as fuel cells.

The global gas separation membrane market is also growing due to the influence of environmental protection policies, particularly in the areas of carbon capture and clean energy. As carbon emission targets are set and implemented, the role of gas separation membranes in carbon capture technologies becomes even more crucial. Despite the growing market demand, gas separation membrane technology still faces challenges such as membrane material selectivity, durability, and high costs, which limit its widespread adoption.

### Future Trends

Looking ahead, gas separation membrane technology is poised for further advancements in several areas. First, as membrane materials continue to evolve, gas separation membranes will see significant improvements in separation efficiency, durability, and fouling resistance, which will reduce maintenance costs and extend their lifespan.

Secondly, the modular and integrated development of gas separation membrane systems will be an important direction for future growth. Modular design will make these systems more flexible and scalable while also reducing installation and maintenance costs. Moreover, with advancements in mass production technologies, the production costs of gas separation membranes are expected to decrease, facilitating their adoption in small and medium-sized enterprises and further expanding the market.

Environmental policy initiatives are also a key driver for the future development of gas separation membranes. The increasing global focus on carbon reduction and greenhouse gas control will encourage the continued development of gas separation membranes in carbon capture and hydrogen purification applications. Additionally, as Industry 4.0 evolves, gas separation membrane systems will increasingly incorporate intelligent control and automation technologies to improve operational efficiency, reduce

operational risks, and ensure high-performance systems.

This report is a detailed and comprehensive analysis for global Gas Separation Film market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Gas Separation Film market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2020-2031

Global Gas Separation Film market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2020-2031

Global Gas Separation Film market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2020-2031

Global Gas Separation Film market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Gas Separation Film
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Gas Separation Film market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Air Products, Air Liquide, UBE, Grasys, Evonik, Fujifilm, Generon IGS, Honeywell, MTR, Borsig, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Gas Separation Film market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Hollow Fiber

Spiral Wound

Others

### **Market segment by Application**

Isolation of Inert N2 from Air

H2 Recovery

CO2 Removal from Natural Gas

Vapor/Nitrogen Separation

Other Applications

### **Major players covered**

Air Products

Air Liquide

UBE

Grasys

Evonik

Fujifilm

Generon IGS

Honeywell

MTR

Borsig

Parker Hannifin

Tianbang

SSS

### **Market segment by region, regional analysis covers**

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

### **The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Gas Separation Film product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gas Separation Film, with price, sales quantity, revenue, and global market share of Gas Separation Film from 2020 to 2025.

Chapter 3, the Gas Separation Film competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gas Separation Film breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Gas Separation Film market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Gas Separation Film.

Chapter 14 and 15, to describe Gas Separation Film sales channel, distributors, customers, research findings and conclusion.

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