

Report Information

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Gas Separation Membrane Market Research Report – Global Forecast till 2030

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Description:

Global Gas Separation Membrane Market Overview

The Gas Separation Membrane Market Size was valued at USD 1.86 Billion in 2022. The Gas Separation Membrane market industry is projected to grow from USD 2.45 Billion in 2023 to USD 4.68 Billion by 2030, exhibiting a compound annual growth rate (CAGR) of 10.2% during the forecast period (2023 - 2030). Gas separation membrane processes are a part of industrial processes, where the organic compounds and waste streams should be removed for the efficiency of the industrial operations and the life span of the industrial equipment. The acid gases emitted from the industries are extremely corrosive and corrode the pipelines and affect the overall industrial processes. For the processing of natural grasses, the separation process is highly important. The manufacturers are developing durable membrane materials with higher selectivity and permeability at an affordable selling price in recent years, which is fuelling the Gas separation membrane market growth. Similarly, the gas separation membranes are considered to be the most cost-effective in the industry, when compared to the other polymeric membranes. Moreover, the stringent regulations imposed by the government of several countries in monitoring and controlling carbon dioxide emissions are also promoting the overall growth of the Gas separation membrane industry.

Some of the potential benefits such as lower energy requirements, lower capital requirements, lower operational costs, and significant others are further promoting the overall growth of the Gas Separation membrane industry.

Gas Separation Membrane Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Gas Separation Membrane Market Trends

significant increase in the demand for membrane separation processes in natural gas treatment, hydrogen purification, separation of hydrocarbons, and carbon dioxide captures.

The increasing number of governmental regulations and laws regarding the emission of greenhouse gases and restrictions on the emission of carbon dioxide across the industrial verticals are considered the major drivers of Gas separation membrane market growth.

Various industrial processes such as natural gas treatment, hydrogen purification, hydrocarbon separation, and significant processes require gas separation membrane processes and which is considered the major driver of gas separation membrane market growth.

Additionally, The increasing investment and the availability of affordable modules in gas separation membranes have led to new product launches in the industry and the advent of new launches in the industry is presenting lucrative opportunities for gas separation membrane market growth.

The increasing number of natural gas and chemical industries due to the increasing demand combined with the key applications such as food and beverages processing industries, wastewater treatment industries, and medical sectors are presenting lucrative opportunities for the overall growth of the gas separation industry during the forecast period. Also, the potential characteristics of gas separation membrane methods over other methods such as cryogenic distillation, adsorption, and significant others are expected to boost the overall growth of the Gas separation membrane industry during the forecast period.

Gas Separation Membrane Market Segment Insights

Gas Separation Membrane Material Type Insights

The Gas Separation Membrane Market segmentation, based on Material Type, includes polyimide & polyamide, polysulfone, cellulose acetate, and other material types. The gas separation membrane vendors are widely accepting the polyimide and polyamide material type because it is significantly

cheaper than other materials and is easy to fabricate, which leads the business opportunities; other than that, polyamide & polyimide is the fastest-growing segment in material type owing to their high stability in chemical & thermal strengths, mechanical strength, and good forming properties.

Gas Separation Membrane Application Insights

Based on Application, the Gas Separation Membrane Market segmentation includes nitrogen generation and oxygen enrichment, hydrogen recovery, carbon dioxide removal, air dehydration, and others. The carbon dioxide removal application is anticipated to dominate the market due to increasing demand for better processing and transmission of natural gas, resulting in carbon dioxide separation.

Figure 2: Gas Separation Membrane Market, by Application, 2023 & 2030 (USD Billion)

Gas Separation Membrane Market, by Application, 2023 & 2030

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Gas Separation Membrane Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The Asia-Pacific region is holding the highest market share in the Gas separation membrane industry, which is due to the increasing utilization of gas separation membranes in the industries to control CO₂ emission. Since there are numerous industries across the Asia-Pacific region, the demand to control CO₂ emission is higher. Also, the stringent regulations in controlling the emission of gases are fuelling the overall growth of the Gas separation membrane industry. Also, the demand for cost-effective techniques and energy-efficient techniques was adopted across the region due to the increasing industrial operations.

Figure 3: GAS SEPARATION MEMBRANE MARKET SHARE BY REGION 2023 (%)

GAS SEPARATION MEMBRANE MARKET SHARE BY REGION 2023

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

European countries are also increasingly utilizing gas separation membranes for industrial processes, as the country follows stringent regulations in protecting the environment.

Gas Separation Membrane Key Market Players & Competitive Insights

Major market players are spending a lot of money on R&D to increase their product lines, which will help the Gas Separation Membrane market grow even more. Market participants are also taking a range of strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the Gas Separation Membrane industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

The major market players are investing a lot of money in R&D to expand their product lines, which will spur further market growth for Gas Separation Membranes. With significant market development like new product releases, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations, market participants are also undertaking various strategic activities to expand their global presence. To grow and thrive in a market climate that is becoming more competitive and growing, competitors in the Gas Separation Membrane industry must offer affordable products.

Manufacturing locally to cut operating costs is one of the main business tactics manufacturers use in the global Gas Separation Membrane industry to benefit customers and expand the market sector. The Gas Separation Membrane market has recently given medicine some of the most important advantages. Major Gas Separation Membrane market players, including Air Products and Chemicals Inc (US), Ube Industries Ltd (Japan), Air Liquide Advanced Separation (US), Schlumberger Limited (US), and others, are attempting to increase market demand by funding R&D initiatives.

Air Liquide Advanced Materials is a company manufacturing advanced gases and chemicals for electronics engineering and advanced memory structures. It provides ALOHA and Voltaix product lines, which are used to deposit thin films via chemical vapor deposition (CVD) and atomic layer deposition (ALD).

Also, UBE is a company that focuses on construction materials, chemicals, and machines such as cement and limestone, foot comfort bath mat, synthetic rubbers, ceramics, paints, and resins, die casting and injection molding machines, transport and storage system, dust removal device, and more. The company caters to aerospace, agriculture and fishing, IT and electronics, medicines, and other sectors.

Key Companies in the Gas Separation Membrane market include

- Air Products and Chemicals Inc (US)
- Ube Industries Ltd (Japan)

- Air Liquide Advanced Separation (US)
- Schlumberger Limited (US)
- Membrane Technology and Research Inc (US)
- Evonik Industries AG (Germany)
- FUJIFILM Manufacturing Europe BV (the Netherlands)
- Honeywell International Inc (US)
- Generon IGS Inc. (US)
- DIC Corporation (Japan)
- SRI International (US)

Gas Separation Membrane Industry Developments

one of the leading market players, Honeywell has acquired a company that had specialized in natural gas processing, Ortloff engineers. This acquisition has expanded the capacity of the industry and has improved customer returns in the oil refining industries.

one of the leading market players, Air Liquide had announced their investment of about USD 170 million for the expansion of the industries that supply oxygen to industrial gas across South Africa. The investment was especially used for the construction of the Air Separation Unit which is now able to produce up to 5000 tonnes of oxygen for industrial purposes.

Gas Separation Membrane Market Segmentation

Gas Separation Membrane Material Type Outlook

- Polyimide & Polyamide
- Polysulfide
- Cellulose Acetate
- Others

Gas Separation Membrane Application Outlook

- Nitrogen Generation & Oxygen Enrichment
- Hydrogen Recovery
- Carbon Dioxide Removal
- Others

Gas Separation Membrane Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe

- Asia-Pacific

- China
- Japan
- India
- Australia
- South Korea
- Australia
- Rest of Asia-Pacific

- Rest of the World

- Middle East
- Africa
- Latin America

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