

Gas Separation Membrane Market Size, Share & Trends Analysis Report By Product (Polymeric, Inorganic, Metallic), By End-use (Chemicals, Petrochemicals and Oil & Gas, Food & Beverage), By Application, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Gas Separation Membrane Market Growth & Trends

The global gas separation membrane market size is expected to reach USD 2.16 billion by 2030, registering a CAGR of 6.6% from 2024 to 2030, according to a new report by Grand View Research, Inc. The market is anticipated to grow on account of the growing demand for petrochemicals, oil & gas, food & beverage, power generation, pollution control, and chemicals industries. The gas membrane separation technology has progressed rapidly over the last two decades. Technological advancements related to durability enhancement and reduction of fouling potential are expected to have a favorable impact on the widespread adoption of gas membrane separation technologies. In addition, manufacturers have developed membranes that can withstand high operating temperatures and harsh chemical environments.

Furthermore, gas separation membranes play a crucial role in pollution control by enabling the separation, purification, and capture of harmful gases from industrial emissions and waste streams. Hence, growing industrialization in developing economies, such as India, Mexico, China, and Brazil, is expected to positively affect industry growth. China has emerged as the global production hub for several industries,

such as chemicals, pigments, textiles, consumer electronics, and semiconductors & microchips. However, laxity in the enforcement of environmental laws has had a detrimental impact on water sources within the country. To reverse the environmental damage, the country has passed stringent laws to prevent water pollution. As a result, there has been a growing demand for water treatment plants, which further drive the market growth.

Polyethersulfone (PES) and polyvinylidene fluoride (PVDF) are two of the most widely used raw polymeric materials in the production of membrane modules. These polymers are mainly used in the automotive and aerospace industries. Membrane manufacturing accounts for a very small percentage of the overall demand for these polymers. Thus, these industries create competitive pressure in terms of raw material availability. The global membrane separation technology market is highly concentrated in nature with the top five players accounting for over 60% share of the overall market. The market is also characterized by a large number of players involved in capacity expansions and mergers & acquisitions to increase their industry share. International players are focusing on strategic acquisitions of small- as well as medium-scale companies to expand their product portfolio and strengthen their position in the market.

Gas Separation Membrane Market Report Highlights

Polymeric membrane separation was the largest segment with a share of 73.3% in 2023. Polymeric gas separation membranes are membranes composed of polymeric materials, such as polysulfone, polyimide, polyethylene, or PVDF. The separation process takes place when gas mixtures pass through a membrane under pressure. Different components of the gas pass through the membrane at varying velocities, allowing for the separation of particular gases from a mixture

Based on applications, the nitrogen separation segment held the largest share of over 22% in 2023. Gas separation membranes are used to separate nitrogen from air, producing high-purity nitrogen gas. This nitrogen is used in various industries, including electronics, food and beverage packaging, pharmaceuticals, and chemical processing. Furthermore, the membranes are integrated into nitrogen generation systems to produce nitrogen on-site from compressed air

Based on end-uses, the petrochemicals and oil & gas segment accounted for the largest share of 27.3% in 2023. The growing use of gas separation membranes for natural gas processing, hydrogen purification, carbon capture &

storage, vapor recovery, and natural gas liquefaction is expected to drive product growth from 2024 to 2030

Asia Pacific led the market and accounted for a revenue share of 40.9% in 2023 owing to high demand and the rapid industrialization, coupled with stringent regulations set by various governments to maintain environmental quality. Moreover, as pollution levels and environmental concerns continue to rise, the demand for wastewater treatment technologies is expected to increase in the region over the next few years

The pharmaceutical industry is growing due to increasing investment in healthcare facilities, rising per capita income, improving diagnostic technology, and growing prevalence of chronic diseases. In addition, the growing geriatric population in developed countries like the U.S., Germany, and Japan is expected to create substantial demand for pharmaceutical products, thereby boosting the product demand

The global market is highly competitive owing to the presence of a large number of manufacturers

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