

Global Oxygen/Nitrogen Separation Membrane Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Oxygen/Nitrogen Separation Membrane market size was valued at US\$ 515 million in 2025 and is forecast to a readjusted size of US\$ 718 million by 2032 with a CAGR of 5.0% during review period.

Oxygen/Nitrogen Separation Membrane (typically a hollow fiber gas separation membrane) is a selective semi-permeable membrane module made of polymers such as polyimide and polysulfone. It separates oxygen and nitrogen from compressed air based on the differences in solubility and diffusion coefficients of different gases within the membrane, thus producing nitrogen-rich or oxygen-rich gas. These are used in inertization, explosion-proofing, protective gas applications, and combustion-supporting and oxygen-enriched combustion scenarios. Typical products include UBE's polyimide N₂ separation membrane and Evonik's SEPURAN[®] N₂ membrane, which can produce nitrogen or oxygen-rich gas with 90-99.9% purity from air. The price of a single gas separation membrane element is approximately \$2,300, with a gross profit margin of approximately 30%.

The upstream of the industrial chain mainly consists of suppliers of high-performance engineering plastics and special polymers (such as polyimide hollow fiber), stainless steel or aluminum alloy pressure vessels, pipelines and compressors and other general equipment. Representative membrane technology providers include UBE and Evonik, which have developed polyimide N₂ separation membranes, SEPURAN[®] N₂ and other series of hollow fiber membrane products respectively.

The midstream sector comprises gas companies and equipment manufacturers such as

Air Products, Air Liquide, Generon IGS, Parker Hannifin, and Grasys, as well as domestic companies like Tianbang Membrane, Guochu Technology, Huihai Membrane, Kelin Gas Source, and Wobo Group. These companies integrate membrane elements into onshore, marine, and vehicle-mounted membrane nitrogen/oxygen enrichment systems, providing complete skid-mounted or cabinet-mounted equipment.

Downstream customers are primarily concentrated in industries requiring continuous on-site gas supply and sensitive to gas safety and operating costs. These include inert gas protection for food and beverage packaging, nitrogen protection for electronics and semiconductor production lines, explosion-proof inerting for chemical and petrochemical plants, nitrogen sealing for oil and gas exploration and transportation (especially offshore platforms and pipelines), protective gas for metal heat treatment and laser cutting, and scenarios requiring oxygen-enriched air such as medical, wastewater treatment, and aquaculture. Membrane technology, with its modularity, flexible start-up and shutdown, and relatively low energy consumption, is continuously encroaching on the application space of traditional liquid nitrogen external supply and some small and medium-sized cryogenic air separation units.

From a technology lifecycle perspective, nitrogen-oxygen separation membrane gas exchange is not in its introductory or early growth phase, but rather a mature industrial technology that has completed core technology route verification and engineering finalization. Over the past two decades, membrane air separation has established a clear and replicable business model in the nitrogen production field, and its application reliability, operational lifespan, and maintenance logic have been validated by global industrial users over a long period. However, it is important to emphasize that 'maturity' does not equate to 'stagnant growth.' Current industry growth is not driven by single-point technological breakthroughs, but rather by the horizontal expansion of application scenarios and increased regional penetration. On the one hand, membrane nitrogen production has expanded from early manufacturing and food packaging scenarios to the petrochemical, oil and gas, shipbuilding, energy, and environmental protection sectors. On the other hand, in emerging markets and some regions with weak industrial foundations, the penetration rate of on-site gas generation replacing traditional gas supply models is still increasing, providing the industry with long-term, sustainable demand.

A key evolutionary characteristic of the nitrogen-oxygen separation membrane gas exchange industry is the shift in product focus from 'membrane modules' to 'system solutions.' Although the membrane module itself remains the core technology, market transactions are increasingly characterized by the delivery of complete gas generation

systems, skid-mounted equipment, or containerized units. This trend reflects a shift in downstream customer demand: users are no longer focused on individual membrane performance parameters, but rather on the overall system's stable gas supply capacity at target purity, energy consumption, operation and maintenance costs, and long-term reliability. Consequently, companies with systems engineering capabilities, application experience, and service networks are gradually widening the gap with simple membrane module suppliers in the competition.

This report is a detailed and comprehensive analysis for global Oxygen/Nitrogen Separation Membrane 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 Oxygen/Nitrogen Separation Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oxygen/Nitrogen Separation Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oxygen/Nitrogen Separation Membrane market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oxygen/Nitrogen Separation Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Oxygen/Nitrogen Separation Membrane

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 Oxygen/Nitrogen Separation Membrane 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, Evonik, Tianbang Membrane, Huihai Membrane Material, Grasy, Parker Hannifin, Generon IGS, Airrane Co Ltd, etc.

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

Market Segmentation

Oxygen/Nitrogen Separation Membrane market is split by Type and by Application. For the period 2021-2032, 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

Oxygen Membrane

Nitrogen Membrane

Market segment by Class

Hollow Fiber Membrane

Sheet Membrane

Other

Market segment by Pressure

0.1-0.5 Mpa

>0.5 Mpa

Market segment by Application

Oil and Gas

Chemicals

Mining and Metallurgy

Electronics and Semiconductors

Energy and Power

Agriculture

Aerospace

Other

Major players covered

Air Products

Air Liquide

UBE

Evonik

Tianbang Membrane

Huihai Membrane Material

Grasys

Parker Hannifin

Generon IGS

Airrane Co Ltd

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 Oxygen/Nitrogen Separation Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Oxygen/Nitrogen Separation Membrane, with price, sales quantity, revenue, and global market share of Oxygen/Nitrogen Separation Membrane from 2021 to 2026.

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

Chapter 4, the Oxygen/Nitrogen Separation Membrane breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by

regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Oxygen/Nitrogen Separation Membrane market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Oxygen/Nitrogen Separation Membrane.

Chapter 14 and 15, to describe Oxygen/Nitrogen Separation Membrane sales channel, distributors, customers, research findings and conclusion.

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