

# Global Pervaporation Membranes Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Pervaporation Membranes market size is expected to reach \$ 137 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032). In 2025, global Pervaporation Membranes sales reached approximately 56.68 K Sqm, with an average global market price of around US\$ 1,559 per Spm.

Pervaporation membranes are dense, selective membranes used for high-precision separation of liquid mixtures. The feed contacts the membrane in the liquid phase, where target components preferentially sorb (dissolve) into and diffuse through the selective layer; on the permeate side, vacuum or a sweep gas continuously removes the permeating species, which is recovered as vapor. This technology is widely applied to deep dehydration of organic solvents, separation of azeotropic or near-azeotropic mixtures, and recovery of VOCs from wastewater. Compared with purely thermal separation, it can offer more controllable energy use, integrates well with distillation, and enables lower-temperature operation that helps protect heat-sensitive components. Pervaporation membranes are commonly produced under a 'materials platform + modular manufacturing + engineered delivery' model. Leading suppliers build around proprietary membrane chemistries (polymeric composite layers and/or inorganic zeolite/ceramic systems), manufacture flat-sheet or roll goods with controlled coating and post-treatment, and commercialize mainly as membrane modules (spiral-wound, plate-and-frame/hollow-fiber, tubular, etc.). They often work with system integrators or EPC partners to deliver turnkey solutions from pilot to industrial scale. A typical process includes: substrate/support preparation (polymer or ceramic carrier) ? selective-layer coating/deposition (solution coating, interfacial polymerization, sol?gel/crystallization, etc.) ? curing/crosslinking and defect repair ? slitting and packaging ? module assembly and sealing ? performance qualification (flux, separation factor, solvent/temperature stability) ? shipment. Gross margin depends on material IP barriers, yield and consistency, customer qualification cycles, and the share of project/service revenue; a

typical range is roughly 30%–60%. Commodity polymer membranes and outsourced modules trend lower, while high-selectivity inorganic membranes, solvent-resistant platforms, and 'membrane + system' deliveries tend to be higher. Upstream spans polymers/monomers, solvents/additives, ceramic powders and supports, fabrics/backings, sealants/adhesives and pressure housings; midstream covers membrane and module fabrication, QA/QC and application engineering; downstream includes solvent dehydration (ethanol/IPA/esters), organics separations and VOC recovery, fine chemicals and pharmaceuticals, food processing, and biofuels—where system integration and long-term operation services are key value-added components.

#### Market Development Opportunities & Main Driving Factors

The core value proposition of pervaporation membranes is energy-efficient separation that replaces or intensifies energy-intensive units such as distillation and extraction. The advantage is most explicit in azeotropic or close-boiling mixtures and in trace-water removal, where the process economics are often compelling. In recent annual reports and operating disclosures, multiple chemical materials and separation-equipment companies have repeatedly highlighted strategic priorities such as energy-efficiency upgrades, process intensification, circular economy initiatives, and higher value-added solution portfolios. This context makes a scalable commercial route—built on proprietary membrane-material platforms, modular delivery, and engineering services—more repeatable across projects. At the same time, policy momentum around volatile organic compounds (VOCs) control, resource recovery, and industrial green transformation is raising both compliance pressure and cost-reduction incentives in solvent dehydration and solvent recycling. Together, these drivers expand the installed-base opportunity from single-point demonstrations to packaged and standardized deployments.

#### Market Challenges, Risks, & Restraints

The key commercialization hurdle is not whether the membrane can separate, but whether it can run stably, scale reproducibly, and pass customer validation. Engineering details such as selective-layer defect control, long-term resistance to solvents, acids/alkalis, and temperature, fouling behavior and cleanability, and sealing integrity directly determine whether flux and separation factor are bankable over the full lifecycle. Any performance drift under critical operating windows can prolong qualification cycles and raise after-sales cost. Meanwhile, manufacturing yield for membrane modules, supply stability for critical materials and supports, and working-capital intensity in project-based delivery can amplify profit volatility. For suppliers pursuing a 'membrane + system' route, additional execution complexity comes from system integration, responsibility boundaries during operation, and regional regulatory differences that shape acceptance criteria and handover requirements.

#### Downstream Demand Trends

Downstream demand is shifting from single-purpose dehydration toward packaged

process solutions and multi-scenario penetration. On one hand, bio-based fuels, fine chemicals, and pharmaceutical solvent systems increasingly prioritize continuous operation, lower energy use, and solvent reuse, accelerating hybrid flows that combine pervaporation with distillation to achieve higher purity and more consistent quality at lower energy cost. On the other hand, policy-driven industrial-park VOCs abatement programs and centralized solvent-recovery centers are pushing membranes into engineering procurement as part of integrated treatment trains, typically combined with adsorption and condensation. Reflecting broker research consensus that membrane separation supports energy saving, decarbonization, resource recovery, localization, and higher penetration rates, the market is expected to favor suppliers that can pair material barriers with engineered delivery and long-term service. As a result, competition is moving from one-off membrane sales toward full-lifecycle value realization.

This report studies the global Pervaporation Membranes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pervaporation Membranes and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pervaporation Membranes that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Pervaporation Membranes total production and demand, 2021-2032, (K Sqm)

Global Pervaporation Membranes total production value, 2021-2032, (USD Million)

Global Pervaporation Membranes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Pervaporation Membranes consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Pervaporation Membranes domestic production, consumption, key domestic manufacturers and share

Global Pervaporation Membranes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Pervaporation Membranes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Pervaporation Membranes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Pervaporation Membranes market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mitsubishi Chemical, Mitsui E&S Power Systems,

Petro Sep, Kanadevia, DeltaMem AG, Jiangsu Nine Heaven High-Tech, Fraunhofer IKTS, Wuhan Zhihong Sibo, Pervatech, Shandong Lanjing Film, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pervaporation Membranes market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Pervaporation Membranes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pervaporation Membranes Market, Segmentation by Type:

Organic Pervaporation Membranes

Inorganic Pervaporation Membranes

Global Pervaporation Membranes Market, Segmentation by Sorption Affinity Type:

Hydrophilic Membranes

Hydrophobic Membranes

Global Pervaporation Membranes Market, Segmentation by Mass Transfer Mechanism:

Solution-Diffusion Model

Molecular Sieving

Global Pervaporation Membranes Market, Segmentation by Modular Form:

Spiral-wound

Flat-sheet

Tubular

Hollow Fiber

Multichannel Ceramic

Others

Global Pervaporation Membranes Market, Segmentation by Application:

Pharmaceutical and Biotechnology

Fine and Specialty Chemicals

Food and Beverages

Waste and Wastewater Treatment

Others

**Companies Profiled:**

Mitsubishi Chemical

Mitsui E&S Power Systems

Petro Sep

Kanadevia

DeltaMem AG

Jiangsu Nine Heaven High-Tech

Fraunhofer IKTS

Wuhan Zhihong Sibo

Pervatech

Shandong Lanjing Film

SINYUAN Membrane Technology

TANGENT

Zhejiang Hymater New Materials

Dalian HST Technology

i3 Nanotec

Nagayanagi

AIRRANE

**Key Questions Answered:**

1. How big is the global Pervaporation Membranes market?

2. What is the demand of the global Pervaporation Membranes market?
3. What is the year over year growth of the global Pervaporation Membranes market?
4. What is the production and production value of the global Pervaporation Membranes market?
5. Who are the key producers in the global Pervaporation Membranes market?
6. What are the growth factors driving the market demand?

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