

Global Hydrophilic Pervaporation Membranes Market Growth 2026-2032

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Abstracts

The global Hydrophilic Pervaporation Membranes market size is predicted to grow from US\$ 64.84 million in 2025 to US\$ 101 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

In 2025, global Hydrophilic Pervaporation Membranes sales reached approximately 44.63 K Sqm, with an average global market price of around US\$ 1,485 per Spm.

Hydrophilic pervaporation membranes are pervaporation separation membranes engineered to preferentially sorb and transport water molecules, and are widely used for selective dehydration of organic mixtures (e.g., ethanol, isopropanol, ethyl acetate) or for enriching the water phase in aqueous-containing systems. They typically operate via the solution–diffusion mechanism: water in the liquid feed preferentially dissolves into the hydrophilic selective layer, diffuses across the membrane, and is withdrawn as vapour on the permeate side under low partial pressure (vacuum or sweep gas), then condensed for recovery. This enables intensified separation of azeotropic or close-boiling mixtures at relatively mild temperatures. Common materials include crosslinked PVA, hydrophilically modified polyimides, certain zeolite/ceramic or hybrid organic–inorganic structures, with performance defined by high water/organic selectivity, stable flux, resistance to swelling, and long-term chemical durability.

Hydrophilic pervaporation membranes are typically made through a chain of formulation ? selective-layer formation ? composite reinforcement ? module packaging. Upstream work focuses on hydrophilic polymer chemistries (most commonly crosslinked PVA, or hydrophilically modified polyimides / hybrid composites) and dope preparation. Midstream, a micron-scale selective layer is produced by casting/coating or interfacial composite formation on a porous support, followed by crosslinking/curing, solvent

exchange, and thermal treatment to balance flux and selectivity. Reinforcement (nonwovens/scrims) is then laminated, and the product undergoes pinhole inspection, thickness/selectivity testing, swelling resistance checks, and chemical/thermal aging validation. Final products are assembled into spiral-wound, plate-and-frame, or tubular modules, with seals and end designs tailored to temperature/solvent exposure for long-term stability. Gross margins generally increase along the value chain: membrane sheets and standard modules ~30%–60% (often higher for proprietary formulations and low-defect, stable supply), while turnkey skids and project delivery ~20%–45% depending on customization and procurement cycles. Upstream inputs include PVA/PI resins and crosslinkers, solvents/additives, porous supports (PVDF/PES/ceramic), reinforcements and sealing/adhesive systems, plus vacuum, condensation, heat exchange, and instrumentation components. Midstream covers membrane fabrication, lamination, module assembly, and QA/lifetime testing. Downstream demand is driven by bio/fuel ethanol dehydration, specialty chemicals and solvent recovery, pharmaceutical solvent drying, electronic chemicals and high-purity solvent purification, and food/flavors dehydration, supported by recurring revenues from membrane replacement and O&M services.

Market Development Opportunities & Main Driving Factors

Hydrophilic pervaporation membranes create value by replacing or intensifying azeotropic/close-boiling dehydration with a membrane-driven pathway, which fits the investment logic of decarbonization and energy efficiency. In China, recent energy-saving and carbon-reduction initiatives keep petrochemicals and chemicals among the priority sectors for upgrades, making solvent circularity, process intensification, and lower energy intensity 'must-have' outcomes. Internationally, renewable-fuel blending and transport-energy transition frameworks (e.g., the US RFS-related rules and the EU's RED III) continue to support resilient demand for purification and dehydration of water-bearing organic streams such as ethanol. Annual-report disclosures from fuel-chain and chemical leaders—covering ethanol operations, efficiency programs, and capex—suggest the market is entering a window where customers move from 'works' to 'works at scale with lower energy and higher reliability.'

Market Challenges, Risks, & Restraints

Commercial adoption is gated by provable stability and lifecycle economics. Under high temperature, polar solvents, and impurity-rich feeds (salts/acids/heavies), hydrophilic selective layers may swell, foul, and suffer flux decay, so buyers demand auditable lifetime data, predictable replacement cycles, and minimized outage risk. Meanwhile,

molecular-sieve dehydration, heat-integrated distillation, and adsorption remain strong alternatives with mature engineering practices and robust supply chains—often with more stable pricing and lead times. At the macro level, the energy transition can reshape the ethanol-linked demand pool: annual-report risk disclosures frequently highlight higher fuel efficiency, shifting mobility patterns, and rising EV penetration, implying demand is policy- and structure-dependent rather than a straight-line extrapolation—making project momentum hinge on quantified cost savings and reliability proof.

Downstream Demand Trends

Downstream is shifting from standalone dehydration units toward continuous, closed-loop, high-purity process architectures. In bioethanol and renewable fuels, tighter product specs, controlled energy intensity, and supply continuity are being prioritized, pushing dehydration sections toward modular integration, online monitoring, and service-oriented membrane replacement. In petrochemicals and specialty chemicals, decarbonization and compliance pressures increase willingness to adopt process-intensification solutions that reduce steam use, cut reboiler duty, and integrate flexibly with existing assets. In parallel, VOC governance and solvent recovery remain high on government agendas, reinforcing investment in 'dehydration + recovery + recycling' closed loops—an enduring tailwind for hydrophilic pervaporation membranes in high-value separation scenarios.

LP Information, Inc. (LPI) ' newest research report, the “Hydrophilic Pervaporation Membranes Industry Forecast” looks at past sales and reviews total world Hydrophilic Pervaporation Membranes sales in 2025, providing a comprehensive analysis by region and market sector of projected Hydrophilic Pervaporation Membranes sales for 2026 through 2032. With Hydrophilic Pervaporation Membranes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydrophilic Pervaporation Membranes industry.

This Insight Report provides a comprehensive analysis of the global Hydrophilic Pervaporation Membranes landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydrophilic Pervaporation Membranes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrophilic Pervaporation Membranes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrophilic Pervaporation Membranes and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydrophilic Pervaporation Membranes.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrophilic Pervaporation Membranes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Organic Membranes

Inorganic Membranes

Mixed Matrix Membranes

Segmentation by Mass Transfer Mechanism:

Solution-Diffusion Model

Molecular Sieving

Segmentation by Modular Form:

Spiral-wound

Flat-sheet

Tubular

Hollow Fiber

Others

Segmentation by Application:

Pharmaceutical and Biotechnology

Fine and Specialty Chemicals

Food and Beverages

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Hydrophilic Pervaporation Membranes market?

What factors are driving Hydrophilic Pervaporation Membranes market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Hydrophilic Pervaporation Membranes market opportunities vary by end market size?

How does Hydrophilic Pervaporation Membranes break out by Type, by Application?

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