

Global Hydrophilic Pervaporation Membranes 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 Hydrophilic Pervaporation Membranes market size was valued at US\$ 68.20 million in 2025 and is forecast to a readjusted size of US\$ 104 million by 2032 with a CAGR of 6.4% during review period.

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in the liquid feed preferentially dissolves into the hydrophilic selective layer, diffuses across the membrane, and is withdrawn as vapour on the permeate side under low partial pressure (vacuum or sweep gas), then condensed for recovery.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/skrims) 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.

This report is a detailed and comprehensive analysis for global Hydrophilic Pervaporation Membranes 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 Hydrophilic Pervaporation Membranes market size and forecasts, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Hydrophilic Pervaporation Membranes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Hydrophilic Pervaporation Membranes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sqm), and average selling prices (US\$/Sq m), 2021-2032

Global Hydrophilic Pervaporation Membranes market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sqm), and ASP (US\$/Sq m), 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 Hydrophilic Pervaporation Membranes
- 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 Hydrophilic Pervaporation Membranes 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 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.

Market Segmentation

Hydrophilic Pervaporation Membranes 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

Organic Membranes

Inorganic Membranes

Mixed Matrix Membranes

Market segment by Mass Transfer Mechanism

Solution-Diffusion Model

Molecular Sieving

Market segment by Modular Form

Spiral-wound

Flat-sheet

Tubular

Hollow Fiber

Others

Market segment by Application

Pharmaceutical and Biotechnology

Fine and Specialty Chemicals

Food and Beverages

Others

Major players covered

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

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 Hydrophilic Pervaporation Membranes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrophilic Pervaporation Membranes, with price, sales quantity, revenue, and global market share of Hydrophilic Pervaporation Membranes from 2021 to 2026.

Chapter 3, the Hydrophilic Pervaporation Membranes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrophilic Pervaporation Membranes 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 Hydrophilic Pervaporation Membranes 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 Hydrophilic Pervaporation Membranes.

Chapter 14 and 15, to describe Hydrophilic Pervaporation Membranes sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Hydrophilic Pervaporation Membranes Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Organic Membranes

1.3.3 Inorganic Membranes

1.3.4 Mixed Matrix Membranes

1.4 Market Analysis by Mass Transfer Mechanism

1.4.1 Overview: Global Hydrophilic Pervaporation Membranes Consumption Value by Mass Transfer Mechanism: 2021 Versus 2025 Versus 2032

1.4.2 Solution-Diffusion Model

1.4.3 Molecular Sieving

1.5 Market Analysis by Modular Form

1.5.1 Overview: Global Hydrophilic Pervaporation Membranes Consumption Value by Modular Form: 2021 Versus 2025 Versus 2032

1.5.2 Spiral-wound

1.5.3 Flat-sheet

1.5.4 Tubular

1.5.5 Hollow Fiber

1.5.6 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Hydrophilic Pervaporation Membranes Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Pharmaceutical and Biotechnology

1.6.3 Fine and Specialty Chemicals

1.6.4 Food and Beverages

1.6.5 Others

1.7 Global Hydrophilic Pervaporation Membranes Market Size & Forecast

1.7.1 Global Hydrophilic Pervaporation Membranes Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Hydrophilic Pervaporation Membranes Sales Quantity (2021-2032)

1.7.3 Global Hydrophilic Pervaporation Membranes Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Mitsubishi Chemical

2.1.1 Mitsubishi Chemical Details

2.1.2 Mitsubishi Chemical Major Business

2.1.3 Mitsubishi Chemical Hydrophilic Pervaporation Membranes Product and Services

2.1.4 Mitsubishi Chemical Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Mitsubishi Chemical Recent Developments/Updates

2.2 Mitsui E&S Power Systems

2.2.1 Mitsui E&S Power Systems Details

2.2.2 Mitsui E&S Power Systems Major Business

2.2.3 Mitsui E&S Power Systems Hydrophilic Pervaporation Membranes Product and Services

2.2.4 Mitsui E&S Power Systems Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Mitsui E&S Power Systems Recent Developments/Updates

2.3 Petro Sep

2.3.1 Petro Sep Details

2.3.2 Petro Sep Major Business

2.3.3 Petro Sep Hydrophilic Pervaporation Membranes Product and Services

2.3.4 Petro Sep Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Petro Sep Recent Developments/Updates

2.4 Kanadevia

2.4.1 Kanadevia Details

2.4.2 Kanadevia Major Business

2.4.3 Kanadevia Hydrophilic Pervaporation Membranes Product and Services

2.4.4 Kanadevia Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Kanadevia Recent Developments/Updates

2.5 DeltaMem AG

2.5.1 DeltaMem AG Details

2.5.2 DeltaMem AG Major Business

2.5.3 DeltaMem AG Hydrophilic Pervaporation Membranes Product and Services

2.5.4 DeltaMem AG Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 DeltaMem AG Recent Developments/Updates

2.6 Jiangsu Nine Heaven High-Tech

- 2.6.1 Jiangsu Nine Heaven High-Tech Details
- 2.6.2 Jiangsu Nine Heaven High-Tech Major Business
- 2.6.3 Jiangsu Nine Heaven High-Tech Hydrophilic Pervaporation Membranes Product and Services
- 2.6.4 Jiangsu Nine Heaven High-Tech Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Jiangsu Nine Heaven High-Tech Recent Developments/Updates
- 2.7 Fraunhofer IKTS
 - 2.7.1 Fraunhofer IKTS Details
 - 2.7.2 Fraunhofer IKTS Major Business
 - 2.7.3 Fraunhofer IKTS Hydrophilic Pervaporation Membranes Product and Services
 - 2.7.4 Fraunhofer IKTS Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Fraunhofer IKTS Recent Developments/Updates
- 2.8 Wuhan Zhihong Sibo
 - 2.8.1 Wuhan Zhihong Sibo Details
 - 2.8.2 Wuhan Zhihong Sibo Major Business
 - 2.8.3 Wuhan Zhihong Sibo Hydrophilic Pervaporation Membranes Product and Services
 - 2.8.4 Wuhan Zhihong Sibo Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Wuhan Zhihong Sibo Recent Developments/Updates
- 2.9 Pervatech
 - 2.9.1 Pervatech Details
 - 2.9.2 Pervatech Major Business
 - 2.9.3 Pervatech Hydrophilic Pervaporation Membranes Product and Services
 - 2.9.4 Pervatech Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Pervatech Recent Developments/Updates
- 2.10 Shandong Lanjing Film
 - 2.10.1 Shandong Lanjing Film Details
 - 2.10.2 Shandong Lanjing Film Major Business
 - 2.10.3 Shandong Lanjing Film Hydrophilic Pervaporation Membranes Product and Services
 - 2.10.4 Shandong Lanjing Film Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Shandong Lanjing Film Recent Developments/Updates
- 2.11 SINYUAN Membrane Technology
 - 2.11.1 SINYUAN Membrane Technology Details

- 2.11.2 SINYUAN Membrane Technology Major Business
- 2.11.3 SINYUAN Membrane Technology Hydrophilic Pervaporation Membranes Product and Services
- 2.11.4 SINYUAN Membrane Technology Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.11.5 SINYUAN Membrane Technology Recent Developments/Updates
- 2.12 TANGENT
 - 2.12.1 TANGENT Details
 - 2.12.2 TANGENT Major Business
 - 2.12.3 TANGENT Hydrophilic Pervaporation Membranes Product and Services
 - 2.12.4 TANGENT Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 TANGENT Recent Developments/Updates
- 2.13 Zhejiang Hymater New Materials
 - 2.13.1 Zhejiang Hymater New Materials Details
 - 2.13.2 Zhejiang Hymater New Materials Major Business
 - 2.13.3 Zhejiang Hymater New Materials Hydrophilic Pervaporation Membranes Product and Services
 - 2.13.4 Zhejiang Hymater New Materials Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Zhejiang Hymater New Materials Recent Developments/Updates
- 2.14 Dalian HST Technology
 - 2.14.1 Dalian HST Technology Details
 - 2.14.2 Dalian HST Technology Major Business
 - 2.14.3 Dalian HST Technology Hydrophilic Pervaporation Membranes Product and Services
 - 2.14.4 Dalian HST Technology Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Dalian HST Technology Recent Developments/Updates
- 2.15 i3 Nanotec
 - 2.15.1 i3 Nanotec Details
 - 2.15.2 i3 Nanotec Major Business
 - 2.15.3 i3 Nanotec Hydrophilic Pervaporation Membranes Product and Services
 - 2.15.4 i3 Nanotec Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 i3 Nanotec Recent Developments/Updates
- 2.16 Nagayanagi
 - 2.16.1 Nagayanagi Details
 - 2.16.2 Nagayanagi Major Business

- 2.16.3 Nagayanagi Hydrophilic Pervaporation Membranes Product and Services
- 2.16.4 Nagayanagi Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.16.5 Nagayanagi Recent Developments/Updates
- 2.17 AIRRANE
 - 2.17.1 AIRRANE Details
 - 2.17.2 AIRRANE Major Business
 - 2.17.3 AIRRANE Hydrophilic Pervaporation Membranes Product and Services
 - 2.17.4 AIRRANE Hydrophilic Pervaporation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 AIRRANE Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HYDROPHILIC PERVAPORATION MEMBRANES BY MANUFACTURER

- 3.1 Global Hydrophilic Pervaporation Membranes Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Hydrophilic Pervaporation Membranes Revenue by Manufacturer (2021-2026)
- 3.3 Global Hydrophilic Pervaporation Membranes Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Hydrophilic Pervaporation Membranes by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Hydrophilic Pervaporation Membranes Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Hydrophilic Pervaporation Membranes Manufacturer Market Share in 2025
- 3.5 Hydrophilic Pervaporation Membranes Market: Overall Company Footprint Analysis
 - 3.5.1 Hydrophilic Pervaporation Membranes Market: Region Footprint
 - 3.5.2 Hydrophilic Pervaporation Membranes Market: Company Product Type Footprint
 - 3.5.3 Hydrophilic Pervaporation Membranes Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Hydrophilic Pervaporation Membranes Market Size by Region
 - 4.1.1 Global Hydrophilic Pervaporation Membranes Sales Quantity by Region (2021-2032)

4.1.2 Global Hydrophilic Pervaporation Membranes Consumption Value by Region (2021-2032)

4.1.3 Global Hydrophilic Pervaporation Membranes Average Price by Region (2021-2032)

4.2 North America Hydrophilic Pervaporation Membranes Consumption Value (2021-2032)

4.3 Europe Hydrophilic Pervaporation Membranes Consumption Value (2021-2032)

4.4 Asia-Pacific Hydrophilic Pervaporation Membranes Consumption Value (2021-2032)

4.5 South America Hydrophilic Pervaporation Membranes Consumption Value (2021-2032)

4.6 Middle East & Africa Hydrophilic Pervaporation Membranes Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2032)

5.2 Global Hydrophilic Pervaporation Membranes Consumption Value by Type (2021-2032)

5.3 Global Hydrophilic Pervaporation Membranes Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2032)

6.2 Global Hydrophilic Pervaporation Membranes Consumption Value by Application (2021-2032)

6.3 Global Hydrophilic Pervaporation Membranes Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2032)

7.2 North America Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2032)

7.3 North America Hydrophilic Pervaporation Membranes Market Size by Country

7.3.1 North America Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2032)

7.3.2 North America Hydrophilic Pervaporation Membranes Consumption Value by

Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2032)

8.2 Europe Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2032)

8.3 Europe Hydrophilic Pervaporation Membranes Market Size by Country

8.3.1 Europe Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2032)

8.3.2 Europe Hydrophilic Pervaporation Membranes Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Hydrophilic Pervaporation Membranes Market Size by Region

9.3.1 Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Hydrophilic Pervaporation Membranes Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2032)

10.2 South America Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2032)

10.3 South America Hydrophilic Pervaporation Membranes Market Size by Country

10.3.1 South America Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2032)

10.3.2 South America Hydrophilic Pervaporation Membranes Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Hydrophilic Pervaporation Membranes Market Size by Country

11.3.1 Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Hydrophilic Pervaporation Membranes Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Hydrophilic Pervaporation Membranes Market Drivers

12.2 Hydrophilic Pervaporation Membranes Market Restraints

12.3 Hydrophilic Pervaporation Membranes Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Hydrophilic Pervaporation Membranes and Key Manufacturers

13.2 Manufacturing Costs Percentage of Hydrophilic Pervaporation Membranes

13.3 Hydrophilic Pervaporation Membranes Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Hydrophilic Pervaporation Membranes Typical Distributors

14.3 Hydrophilic Pervaporation Membranes Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Hydrophilic Pervaporation Membranes Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Hydrophilic Pervaporation Membranes Consumption Value by Mass Transfer Mechanism, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Hydrophilic Pervaporation Membranes Consumption Value by Modular Form, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Hydrophilic Pervaporation Membranes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Mitsubishi Chemical Basic Information, Manufacturing Base and Competitors
- Table 6. Mitsubishi Chemical Major Business
- Table 7. Mitsubishi Chemical Hydrophilic Pervaporation Membranes Product and Services
- Table 8. Mitsubishi Chemical Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Mitsubishi Chemical Recent Developments/Updates
- Table 10. Mitsui E&S Power Systems Basic Information, Manufacturing Base and Competitors
- Table 11. Mitsui E&S Power Systems Major Business
- Table 12. Mitsui E&S Power Systems Hydrophilic Pervaporation Membranes Product and Services
- Table 13. Mitsui E&S Power Systems Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Mitsui E&S Power Systems Recent Developments/Updates
- Table 15. Petro Sep Basic Information, Manufacturing Base and Competitors
- Table 16. Petro Sep Major Business
- Table 17. Petro Sep Hydrophilic Pervaporation Membranes Product and Services
- Table 18. Petro Sep Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Petro Sep Recent Developments/Updates
- Table 20. Kanadevia Basic Information, Manufacturing Base and Competitors
- Table 21. Kanadevia Major Business
- Table 22. Kanadevia Hydrophilic Pervaporation Membranes Product and Services

Table 23. Kanadevia Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Kanadevia Recent Developments/Updates

Table 25. DeltaMem AG Basic Information, Manufacturing Base and Competitors

Table 26. DeltaMem AG Major Business

Table 27. DeltaMem AG Hydrophilic Pervaporation Membranes Product and Services

Table 28. DeltaMem AG Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. DeltaMem AG Recent Developments/Updates

Table 30. Jiangsu Nine Heaven High-Tech Basic Information, Manufacturing Base and Competitors

Table 31. Jiangsu Nine Heaven High-Tech Major Business

Table 32. Jiangsu Nine Heaven High-Tech Hydrophilic Pervaporation Membranes Product and Services

Table 33. Jiangsu Nine Heaven High-Tech Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Jiangsu Nine Heaven High-Tech Recent Developments/Updates

Table 35. Fraunhofer IKTS Basic Information, Manufacturing Base and Competitors

Table 36. Fraunhofer IKTS Major Business

Table 37. Fraunhofer IKTS Hydrophilic Pervaporation Membranes Product and Services

Table 38. Fraunhofer IKTS Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Fraunhofer IKTS Recent Developments/Updates

Table 40. Wuhan Zhihong Sibio Basic Information, Manufacturing Base and Competitors

Table 41. Wuhan Zhihong Sibio Major Business

Table 42. Wuhan Zhihong Sibio Hydrophilic Pervaporation Membranes Product and Services

Table 43. Wuhan Zhihong Sibio Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Wuhan Zhihong Sibio Recent Developments/Updates

Table 45. Pervatech Basic Information, Manufacturing Base and Competitors

Table 46. Pervatech Major Business

Table 47. Pervatech Hydrophilic Pervaporation Membranes Product and Services

Table 48. Pervatech Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm),

Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Pervatech Recent Developments/Updates

Table 50. Shandong Lanjing Film Basic Information, Manufacturing Base and Competitors

Table 51. Shandong Lanjing Film Major Business

Table 52. Shandong Lanjing Film Hydrophilic Pervaporation Membranes Product and Services

Table 53. Shandong Lanjing Film Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Shandong Lanjing Film Recent Developments/Updates

Table 55. SINYUAN Membrane Technology Basic Information, Manufacturing Base and Competitors

Table 56. SINYUAN Membrane Technology Major Business

Table 57. SINYUAN Membrane Technology Hydrophilic Pervaporation Membranes Product and Services

Table 58. SINYUAN Membrane Technology Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. SINYUAN Membrane Technology Recent Developments/Updates

Table 60. TANGENT Basic Information, Manufacturing Base and Competitors

Table 61. TANGENT Major Business

Table 62. TANGENT Hydrophilic Pervaporation Membranes Product and Services

Table 63. TANGENT Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. TANGENT Recent Developments/Updates

Table 65. Zhejiang Hymater New Materials Basic Information, Manufacturing Base and Competitors

Table 66. Zhejiang Hymater New Materials Major Business

Table 67. Zhejiang Hymater New Materials Hydrophilic Pervaporation Membranes Product and Services

Table 68. Zhejiang Hymater New Materials Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Zhejiang Hymater New Materials Recent Developments/Updates

Table 70. Dalian HST Technology Basic Information, Manufacturing Base and Competitors

Table 71. Dalian HST Technology Major Business

Table 72. Dalian HST Technology Hydrophilic Pervaporation Membranes Product and Services

Table 73. Dalian HST Technology Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Dalian HST Technology Recent Developments/Updates

Table 75. i3 Nanotec Basic Information, Manufacturing Base and Competitors

Table 76. i3 Nanotec Major Business

Table 77. i3 Nanotec Hydrophilic Pervaporation Membranes Product and Services

Table 78. i3 Nanotec Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. i3 Nanotec Recent Developments/Updates

Table 80. Nagayanagi Basic Information, Manufacturing Base and Competitors

Table 81. Nagayanagi Major Business

Table 82. Nagayanagi Hydrophilic Pervaporation Membranes Product and Services

Table 83. Nagayanagi Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Nagayanagi Recent Developments/Updates

Table 85. AIRRANE Basic Information, Manufacturing Base and Competitors

Table 86. AIRRANE Major Business

Table 87. AIRRANE Hydrophilic Pervaporation Membranes Product and Services

Table 88. AIRRANE Hydrophilic Pervaporation Membranes Sales Quantity (K Sqm), Average Price (US\$/Sq m), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. AIRRANE Recent Developments/Updates

Table 90. Global Hydrophilic Pervaporation Membranes Sales Quantity by Manufacturer (2021-2026) & (K Sqm)

Table 91. Global Hydrophilic Pervaporation Membranes Revenue by Manufacturer (2021-2026) & (USD Million)

Table 92. Global Hydrophilic Pervaporation Membranes Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 93. Market Position of Manufacturers in Hydrophilic Pervaporation Membranes, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 94. Head Office and Hydrophilic Pervaporation Membranes Production Site of Key Manufacturer

Table 95. Hydrophilic Pervaporation Membranes Market: Company Product Type

Footprint

Table 96. Hydrophilic Pervaporation Membranes Market: Company Product Application

Footprint

Table 97. Hydrophilic Pervaporation Membranes New Market Entrants and Barriers to Market Entry

Table 98. Hydrophilic Pervaporation Membranes Mergers, Acquisition, Agreements, and Collaborations

Table 99. Global Hydrophilic Pervaporation Membranes Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 100. Global Hydrophilic Pervaporation Membranes Sales Quantity by Region (2021-2026) & (K Sqm)

Table 101. Global Hydrophilic Pervaporation Membranes Sales Quantity by Region (2027-2032) & (K Sqm)

Table 102. Global Hydrophilic Pervaporation Membranes Consumption Value by Region (2021-2026) & (USD Million)

Table 103. Global Hydrophilic Pervaporation Membranes Consumption Value by Region (2027-2032) & (USD Million)

Table 104. Global Hydrophilic Pervaporation Membranes Average Price by Region (2021-2026) & (US\$/Sq m)

Table 105. Global Hydrophilic Pervaporation Membranes Average Price by Region (2027-2032) & (US\$/Sq m)

Table 106. Global Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2026) & (K Sqm)

Table 107. Global Hydrophilic Pervaporation Membranes Sales Quantity by Type (2027-2032) & (K Sqm)

Table 108. Global Hydrophilic Pervaporation Membranes Consumption Value by Type (2021-2026) & (USD Million)

Table 109. Global Hydrophilic Pervaporation Membranes Consumption Value by Type (2027-2032) & (USD Million)

Table 110. Global Hydrophilic Pervaporation Membranes Average Price by Type (2021-2026) & (US\$/Sq m)

Table 111. Global Hydrophilic Pervaporation Membranes Average Price by Type (2027-2032) & (US\$/Sq m)

Table 112. Global Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2026) & (K Sqm)

Table 113. Global Hydrophilic Pervaporation Membranes Sales Quantity by Application (2027-2032) & (K Sqm)

Table 114. Global Hydrophilic Pervaporation Membranes Consumption Value by Application (2021-2026) & (USD Million)

Table 115. Global Hydrophilic Pervaporation Membranes Consumption Value by Application (2027-2032) & (USD Million)

Table 116. Global Hydrophilic Pervaporation Membranes Average Price by Application (2021-2026) & (US\$/Sq m)

Table 117. Global Hydrophilic Pervaporation Membranes Average Price by Application (2027-2032) & (US\$/Sq m)

Table 118. North America Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2026) & (K Sqm)

Table 119. North America Hydrophilic Pervaporation Membranes Sales Quantity by Type (2027-2032) & (K Sqm)

Table 120. North America Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2026) & (K Sqm)

Table 121. North America Hydrophilic Pervaporation Membranes Sales Quantity by Application (2027-2032) & (K Sqm)

Table 122. North America Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2026) & (K Sqm)

Table 123. North America Hydrophilic Pervaporation Membranes Sales Quantity by Country (2027-2032) & (K Sqm)

Table 124. North America Hydrophilic Pervaporation Membranes Consumption Value by Country (2021-2026) & (USD Million)

Table 125. North America Hydrophilic Pervaporation Membranes Consumption Value by Country (2027-2032) & (USD Million)

Table 126. Europe Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2026) & (K Sqm)

Table 127. Europe Hydrophilic Pervaporation Membranes Sales Quantity by Type (2027-2032) & (K Sqm)

Table 128. Europe Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2026) & (K Sqm)

Table 129. Europe Hydrophilic Pervaporation Membranes Sales Quantity by Application (2027-2032) & (K Sqm)

Table 130. Europe Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2026) & (K Sqm)

Table 131. Europe Hydrophilic Pervaporation Membranes Sales Quantity by Country (2027-2032) & (K Sqm)

Table 132. Europe Hydrophilic Pervaporation Membranes Consumption Value by Country (2021-2026) & (USD Million)

Table 133. Europe Hydrophilic Pervaporation Membranes Consumption Value by Country (2027-2032) & (USD Million)

Table 134. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Type

(2021-2026) & (K Sqm)

Table 135. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Type (2027-2032) & (K Sqm)

Table 136. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2026) & (K Sqm)

Table 137. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Application (2027-2032) & (K Sqm)

Table 138. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Region (2021-2026) & (K Sqm)

Table 139. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity by Region (2027-2032) & (K Sqm)

Table 140. Asia-Pacific Hydrophilic Pervaporation Membranes Consumption Value by Region (2021-2026) & (USD Million)

Table 141. Asia-Pacific Hydrophilic Pervaporation Membranes Consumption Value by Region (2027-2032) & (USD Million)

Table 142. South America Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2026) & (K Sqm)

Table 143. South America Hydrophilic Pervaporation Membranes Sales Quantity by Type (2027-2032) & (K Sqm)

Table 144. South America Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2026) & (K Sqm)

Table 145. South America Hydrophilic Pervaporation Membranes Sales Quantity by Application (2027-2032) & (K Sqm)

Table 146. South America Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2026) & (K Sqm)

Table 147. South America Hydrophilic Pervaporation Membranes Sales Quantity by Country (2027-2032) & (K Sqm)

Table 148. South America Hydrophilic Pervaporation Membranes Consumption Value by Country (2021-2026) & (USD Million)

Table 149. South America Hydrophilic Pervaporation Membranes Consumption Value by Country (2027-2032) & (USD Million)

Table 150. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Type (2021-2026) & (K Sqm)

Table 151. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Type (2027-2032) & (K Sqm)

Table 152. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Application (2021-2026) & (K Sqm)

Table 153. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Application (2027-2032) & (K Sqm)

Table 154. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Country (2021-2026) & (K Sqm)

Table 155. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity by Country (2027-2032) & (K Sqm)

Table 156. Middle East & Africa Hydrophilic Pervaporation Membranes Consumption Value by Country (2021-2026) & (USD Million)

Table 157. Middle East & Africa Hydrophilic Pervaporation Membranes Consumption Value by Country (2027-2032) & (USD Million)

Table 158. Hydrophilic Pervaporation Membranes Raw Material

Table 159. Key Manufacturers of Hydrophilic Pervaporation Membranes Raw Materials

Table 160. Hydrophilic Pervaporation Membranes Typical Distributors

Table 161. Hydrophilic Pervaporation Membranes Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Hydrophilic Pervaporation Membranes Picture
- Figure 2. Global Hydrophilic Pervaporation Membranes Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Hydrophilic Pervaporation Membranes Revenue Market Share by Type in 2025
- Figure 4. Organic Membranes Examples
- Figure 5. Inorganic Membranes Examples
- Figure 6. Mixed Matrix Membranes Examples
- Figure 7. Global Hydrophilic Pervaporation Membranes Revenue by Mass Transfer Mechanism, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Hydrophilic Pervaporation Membranes Revenue Market Share by Mass Transfer Mechanism in 2025
- Figure 9. Solution-Diffusion Model Examples
- Figure 10. Molecular Sieving Examples
- Figure 11. Global Hydrophilic Pervaporation Membranes Revenue by Modular Form, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Hydrophilic Pervaporation Membranes Revenue Market Share by Modular Form in 2025
- Figure 13. Spiral-wound Examples
- Figure 14. Flat-sheet Examples
- Figure 15. Tubular Examples
- Figure 16. Hollow Fiber Examples
- Figure 17. Others Examples
- Figure 18. Global Hydrophilic Pervaporation Membranes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Hydrophilic Pervaporation Membranes Revenue Market Share by Application in 2025
- Figure 20. Pharmaceutical and Biotechnology Examples
- Figure 21. Fine and Specialty Chemicals Examples
- Figure 22. Food and Beverages Examples
- Figure 23. Others Examples
- Figure 24. Global Hydrophilic Pervaporation Membranes Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Hydrophilic Pervaporation Membranes Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Hydrophilic Pervaporation Membranes Sales Quantity (2021-2032) & (K Sqm)

Figure 27. Global Hydrophilic Pervaporation Membranes Price (2021-2032) & (US\$/Sq m)

Figure 28. Global Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Hydrophilic Pervaporation Membranes Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Hydrophilic Pervaporation Membranes by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Hydrophilic Pervaporation Membranes Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Hydrophilic Pervaporation Membranes Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Hydrophilic Pervaporation Membranes Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Hydrophilic Pervaporation Membranes Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Hydrophilic Pervaporation Membranes Average Price by Type (2021-2032) & (US\$/Sq m)

Figure 43. Global Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Hydrophilic Pervaporation Membranes Revenue Market Share by Application (2021-2032)

Figure 45. Global Hydrophilic Pervaporation Membranes Average Price by Application

(2021-2032) & (US\$/Sq m)

Figure 46. North America Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Hydrophilic Pervaporation Membranes Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Hydrophilic Pervaporation Membranes Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 58. France Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Hydrophilic Pervaporation Membranes Consumption Value Market Share by Region (2021-2032)

Figure 66. China Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 69. India Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Hydrophilic Pervaporation Membranes Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Hydrophilic Pervaporation Membranes Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Hydrophilic Pervaporation Membranes Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Hydrophilic Pervaporation Membranes Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Hydrophilic Pervaporation Membranes Consumption Value

(2021-2032) & (USD Million)

Figure 85. South Africa Hydrophilic Pervaporation Membranes Consumption Value

(2021-2032) & (USD Million)

Figure 86. Hydrophilic Pervaporation Membranes Market Drivers

Figure 87. Hydrophilic Pervaporation Membranes Market Restraints

Figure 88. Hydrophilic Pervaporation Membranes Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Hydrophilic Pervaporation

Membranes in 2025

Figure 91. Manufacturing Process Analysis of Hydrophilic Pervaporation Membranes

Figure 92. Hydrophilic Pervaporation Membranes Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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