

Global Permeable Gasification Membrane Market Growth 2026-2032

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Abstracts

The global Permeable Gasification Membrane market size is predicted to grow from US\$ 86.45 million in 2025 to US\$ 134 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

In 2025, global Permeable Gasification Membranes sales reached approximately 56.68 K Sqm, with an average global market price of around US\$ 1,559 per Spm.

Permeable Gasification 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.

Permeable Gasification 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 Permeable Gasification 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.

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

This Insight Report provides a comprehensive analysis of the global Permeable Gasification Membrane 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 Permeable Gasification Membrane portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Permeable Gasification Membrane market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Permeable Gasification Membrane 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 Permeable Gasification Membrane.

This report presents a comprehensive overview, market shares, and growth opportunities of Permeable Gasification Membrane market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Organic Membranes

Inorganic Membranes

Mixed Matrix Membranes

Segmentation by Sorption Affinity Type:

Hydrophilic Membranes

Hydrophobic Membranes

Segmentation by Mass Transfer Mechanism:

Solution-Diffusion Model

Molecular Sieving

Segmentation by Modular Form:

Spiral-wound

Flat-sheet

Tubular

Hollow Fiber

Multichannel Ceramic

Others

Segmentation by Application:

Pharmaceutical and Biotechnology

Fine and Specialty Chemicals

Food and Beverages

Waste and Wastewater Treatment

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 Permeable Gasification Membrane market?

What factors are driving Permeable Gasification Membrane market growth, globally and by region?

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

How do Permeable Gasification Membrane market opportunities vary by end market size?

How does Permeable Gasification Membrane break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Permeable Gasification Membrane Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Permeable Gasification Membrane by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Permeable Gasification Membrane by Country/Region, 2021, 2025 & 2032
- 2.2 Permeable Gasification Membrane Segment by Type
 - 2.2.1 Organic Membranes
 - 2.2.2 Inorganic Membranes
 - 2.2.3 Mixed Matrix Membranes
 - 2.2.4 Permeable Gasification Membrane Sales by Type
 - 2.2.4.1 Global Permeable Gasification Membrane Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Permeable Gasification Membrane Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Permeable Gasification Membrane Sale Price by Type (2021-2026)
- 2.3 Permeable Gasification Membrane Segment by Sorption Affinity Type
 - 2.3.1 Hydrophilic Membranes
 - 2.3.2 Hydrophobic Membranes
 - 2.3.3 Permeable Gasification Membrane Sales by Sorption Affinity Type
 - 2.3.3.1 Global Permeable Gasification Membrane Sales Market Share by Sorption Affinity Type (2021-2026)
 - 2.3.3.2 Global Permeable Gasification Membrane Revenue and Market Share by Sorption Affinity Type (2021-2026)

2.3.3.3 Global Permeable Gasification Membrane Sale Price by Sorption Affinity Type (2021-2026)

2.4 Permeable Gasification Membrane Segment by Mass Transfer Mechanism

2.4.1 Solution-Diffusion Model

2.4.2 Molecular Sieving

2.4.3 Permeable Gasification Membrane Sales by Mass Transfer Mechanism

2.4.3.1 Global Permeable Gasification Membrane Sales Market Share by Mass Transfer Mechanism (2021-2026)

2.4.3.2 Global Permeable Gasification Membrane Revenue and Market Share by Mass Transfer Mechanism (2021-2026)

2.4.3.3 Global Permeable Gasification Membrane Sale Price by Mass Transfer Mechanism (2021-2026)

2.5 Permeable Gasification Membrane Segment by Modular Form

2.5.1 Spiral-wound

2.5.2 Flat-sheet

2.5.3 Tubular

2.5.4 Hollow Fiber

2.5.5 Multichannel Ceramic

2.5.6 Others

2.5.7 Permeable Gasification Membrane Sales by Modular Form

2.5.7.1 Global Permeable Gasification Membrane Sales Market Share by Modular Form (2021-2026)

2.5.7.2 Global Permeable Gasification Membrane Revenue and Market Share by Modular Form (2021-2026)

2.5.7.3 Global Permeable Gasification Membrane Sale Price by Modular Form (2021-2026)

2.6 Permeable Gasification Membrane Segment by Application

2.6.1 Pharmaceutical and Biotechnology

2.6.2 Fine and Specialty Chemicals

2.6.3 Food and Beverages

2.6.4 Waste and Wastewater Treatment

2.6.5 Others

2.6.6 Permeable Gasification Membrane Sales by Application

2.6.6.1 Global Permeable Gasification Membrane Sale Market Share by Application (2021-2026)

2.6.6.2 Global Permeable Gasification Membrane Revenue and Market Share by Application (2021-2026)

2.6.6.3 Global Permeable Gasification Membrane Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Permeable Gasification Membrane Breakdown Data by Company
 - 3.1.1 Global Permeable Gasification Membrane Annual Sales by Company (2021-2026)
 - 3.1.2 Global Permeable Gasification Membrane Sales Market Share by Company (2021-2026)
- 3.2 Global Permeable Gasification Membrane Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Permeable Gasification Membrane Revenue by Company (2021-2026)
 - 3.2.2 Global Permeable Gasification Membrane Revenue Market Share by Company (2021-2026)
- 3.3 Global Permeable Gasification Membrane Sale Price by Company
- 3.4 Key Manufacturers Permeable Gasification Membrane Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Permeable Gasification Membrane Product Location Distribution
 - 3.4.2 Players Permeable Gasification Membrane Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PERMEABLE GASIFICATION MEMBRANE BY GEOGRAPHIC REGION

- 4.1 World Historic Permeable Gasification Membrane Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Permeable Gasification Membrane Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Permeable Gasification Membrane Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Permeable Gasification Membrane Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Permeable Gasification Membrane Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Permeable Gasification Membrane Annual Revenue by Country/Region

(2021-2026)

4.3 Americas Permeable Gasification Membrane Sales Growth

4.4 APAC Permeable Gasification Membrane Sales Growth

4.5 Europe Permeable Gasification Membrane Sales Growth

4.6 Middle East & Africa Permeable Gasification Membrane Sales Growth

5 AMERICAS

5.1 Americas Permeable Gasification Membrane Sales by Country

5.1.1 Americas Permeable Gasification Membrane Sales by Country (2021-2026)

5.1.2 Americas Permeable Gasification Membrane Revenue by Country (2021-2026)

5.2 Americas Permeable Gasification Membrane Sales by Type (2021-2026)

5.3 Americas Permeable Gasification Membrane Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Permeable Gasification Membrane Sales by Region

6.1.1 APAC Permeable Gasification Membrane Sales by Region (2021-2026)

6.1.2 APAC Permeable Gasification Membrane Revenue by Region (2021-2026)

6.2 APAC Permeable Gasification Membrane Sales by Type (2021-2026)

6.3 APAC Permeable Gasification Membrane Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Permeable Gasification Membrane by Country

7.1.1 Europe Permeable Gasification Membrane Sales by Country (2021-2026)

7.1.2 Europe Permeable Gasification Membrane Revenue by Country (2021-2026)

7.2 Europe Permeable Gasification Membrane Sales by Type (2021-2026)

7.3 Europe Permeable Gasification Membrane Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Permeable Gasification Membrane by Country

8.1.1 Middle East & Africa Permeable Gasification Membrane Sales by Country (2021-2026)

8.1.2 Middle East & Africa Permeable Gasification Membrane Revenue by Country (2021-2026)

8.2 Middle East & Africa Permeable Gasification Membrane Sales by Type (2021-2026)

8.3 Middle East & Africa Permeable Gasification Membrane Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Permeable Gasification Membrane

10.3 Manufacturing Process Analysis of Permeable Gasification Membrane

10.4 Industry Chain Structure of Permeable Gasification Membrane

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Permeable Gasification Membrane Distributors
- 11.3 Permeable Gasification Membrane Customer

12 WORLD FORECAST REVIEW FOR PERMEABLE GASIFICATION MEMBRANE BY GEOGRAPHIC REGION

- 12.1 Global Permeable Gasification Membrane Market Size Forecast by Region
 - 12.1.1 Global Permeable Gasification Membrane Forecast by Region (2027-2032)
 - 12.1.2 Global Permeable Gasification Membrane Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Permeable Gasification Membrane Forecast by Type (2027-2032)
- 12.7 Global Permeable Gasification Membrane Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Mitsubishi Chemical
 - 13.1.1 Mitsubishi Chemical Company Information
 - 13.1.2 Mitsubishi Chemical Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.1.3 Mitsubishi Chemical Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Mitsubishi Chemical Main Business Overview
 - 13.1.5 Mitsubishi Chemical Latest Developments
- 13.2 Mitsui E&S Power Systems
 - 13.2.1 Mitsui E&S Power Systems Company Information
 - 13.2.2 Mitsui E&S Power Systems Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.2.3 Mitsui E&S Power Systems Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Mitsui E&S Power Systems Main Business Overview
 - 13.2.5 Mitsui E&S Power Systems Latest Developments
- 13.3 Petro Sep
 - 13.3.1 Petro Sep Company Information

- 13.3.2 Petro Sep Permeable Gasification Membrane Product Portfolios and Specifications
- 13.3.3 Petro Sep Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Petro Sep Main Business Overview
- 13.3.5 Petro Sep Latest Developments
- 13.4 Kanadevia
 - 13.4.1 Kanadevia Company Information
 - 13.4.2 Kanadevia Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.4.3 Kanadevia Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Kanadevia Main Business Overview
 - 13.4.5 Kanadevia Latest Developments
- 13.5 DeltaMem AG
 - 13.5.1 DeltaMem AG Company Information
 - 13.5.2 DeltaMem AG Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.5.3 DeltaMem AG Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 DeltaMem AG Main Business Overview
 - 13.5.5 DeltaMem AG Latest Developments
- 13.6 Jiangsu Nine Heaven High-Tech
 - 13.6.1 Jiangsu Nine Heaven High-Tech Company Information
 - 13.6.2 Jiangsu Nine Heaven High-Tech Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.6.3 Jiangsu Nine Heaven High-Tech Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Jiangsu Nine Heaven High-Tech Main Business Overview
 - 13.6.5 Jiangsu Nine Heaven High-Tech Latest Developments
- 13.7 Fraunhofer IKTS
 - 13.7.1 Fraunhofer IKTS Company Information
 - 13.7.2 Fraunhofer IKTS Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.7.3 Fraunhofer IKTS Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Fraunhofer IKTS Main Business Overview
 - 13.7.5 Fraunhofer IKTS Latest Developments
- 13.8 Wuhan Zhihong Sibo

- 13.8.1 Wuhan Zhihong Siboh Company Information
- 13.8.2 Wuhan Zhihong Siboh Permeable Gasification Membrane Product Portfolios and Specifications
- 13.8.3 Wuhan Zhihong Siboh Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Wuhan Zhihong Siboh Main Business Overview
- 13.8.5 Wuhan Zhihong Siboh Latest Developments
- 13.9 Pervatech
 - 13.9.1 Pervatech Company Information
 - 13.9.2 Pervatech Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.9.3 Pervatech Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Pervatech Main Business Overview
 - 13.9.5 Pervatech Latest Developments
- 13.10 Shandong Lanjing Film
 - 13.10.1 Shandong Lanjing Film Company Information
 - 13.10.2 Shandong Lanjing Film Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.10.3 Shandong Lanjing Film Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Shandong Lanjing Film Main Business Overview
 - 13.10.5 Shandong Lanjing Film Latest Developments
- 13.11 SINYUAN Membrane Technology
 - 13.11.1 SINYUAN Membrane Technology Company Information
 - 13.11.2 SINYUAN Membrane Technology Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.11.3 SINYUAN Membrane Technology Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 SINYUAN Membrane Technology Main Business Overview
 - 13.11.5 SINYUAN Membrane Technology Latest Developments
- 13.12 TANGENT
 - 13.12.1 TANGENT Company Information
 - 13.12.2 TANGENT Permeable Gasification Membrane Product Portfolios and Specifications
 - 13.12.3 TANGENT Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 TANGENT Main Business Overview
 - 13.12.5 TANGENT Latest Developments

13.13 Zhejiang Hymater New Materials

13.13.1 Zhejiang Hymater New Materials Company Information

13.13.2 Zhejiang Hymater New Materials Permeable Gasification Membrane Product Portfolios and Specifications

13.13.3 Zhejiang Hymater New Materials Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Zhejiang Hymater New Materials Main Business Overview

13.13.5 Zhejiang Hymater New Materials Latest Developments

13.14 Dalian HST Technology

13.14.1 Dalian HST Technology Company Information

13.14.2 Dalian HST Technology Permeable Gasification Membrane Product Portfolios and Specifications

13.14.3 Dalian HST Technology Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Dalian HST Technology Main Business Overview

13.14.5 Dalian HST Technology Latest Developments

13.15 i3 Nanotec

13.15.1 i3 Nanotec Company Information

13.15.2 i3 Nanotec Permeable Gasification Membrane Product Portfolios and Specifications

13.15.3 i3 Nanotec Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 i3 Nanotec Main Business Overview

13.15.5 i3 Nanotec Latest Developments

13.16 Nagayanagi

13.16.1 Nagayanagi Company Information

13.16.2 Nagayanagi Permeable Gasification Membrane Product Portfolios and Specifications

13.16.3 Nagayanagi Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Nagayanagi Main Business Overview

13.16.5 Nagayanagi Latest Developments

13.17 AIRRANE

13.17.1 AIRRANE Company Information

13.17.2 AIRRANE Permeable Gasification Membrane Product Portfolios and Specifications

13.17.3 AIRRANE Permeable Gasification Membrane Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 AIRRANE Main Business Overview

13.17.5 AIRRANE Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Permeable Gasification Membrane Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Permeable Gasification Membrane Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Organic Membranes

Table 4. Major Players of Inorganic Membranes

Table 5. Major Players of Mixed Matrix Membranes

Table 6. Global Permeable Gasification Membrane Sales by Type (2021-2026) & (K Sqm)

Table 7. Global Permeable Gasification Membrane Sales Market Share by Type (2021-2026)

Table 8. Global Permeable Gasification Membrane Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Permeable Gasification Membrane Revenue Market Share by Type (2021-2026)

Table 10. Global Permeable Gasification Membrane Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 11. Major Players of Hydrophilic Membranes

Table 12. Major Players of Hydrophobic Membranes

Table 13. Global Permeable Gasification Membrane Sales by Sorption Affinity Type (2021-2026) & (K Sqm)

Table 14. Global Permeable Gasification Membrane Sales Market Share by Sorption Affinity Type (2021-2026)

Table 15. Global Permeable Gasification Membrane Revenue by Sorption Affinity Type (2021-2026) & (\$ million)

Table 16. Global Permeable Gasification Membrane Revenue Market Share by Sorption Affinity Type (2021-2026)

Table 17. Global Permeable Gasification Membrane Sale Price by Sorption Affinity Type (2021-2026) & (US\$/Sq m)

Table 18. Major Players of Solution-Diffusion Model

Table 19. Major Players of Molecular Sieving

Table 20. Global Permeable Gasification Membrane Sales by Mass Transfer Mechanism (2021-2026) & (K Sqm)

Table 21. Global Permeable Gasification Membrane Sales Market Share by Mass Transfer Mechanism (2021-2026)

Table 22. Global Permeable Gasification Membrane Revenue by Mass Transfer Mechanism (2021-2026) & (\$ million)

Table 23. Global Permeable Gasification Membrane Revenue Market Share by Mass Transfer Mechanism (2021-2026)

Table 24. Global Permeable Gasification Membrane Sale Price by Mass Transfer Mechanism (2021-2026) & (US\$/Sq m)

Table 25. Major Players of Spiral-wound

Table 26. Major Players of Flat-sheet

Table 27. Major Players of Tubular

Table 28. Major Players of Hollow Fiber

Table 29. Major Players of Multichannel Ceramic

Table 30. Major Players of Others

Table 31. Global Permeable Gasification Membrane Sales by Modular Form (2021-2026) & (K Sqm)

Table 32. Global Permeable Gasification Membrane Sales Market Share by Modular Form (2021-2026)

Table 33. Global Permeable Gasification Membrane Revenue by Modular Form (2021-2026) & (\$ million)

Table 34. Global Permeable Gasification Membrane Revenue Market Share by Modular Form (2021-2026)

Table 35. Global Permeable Gasification Membrane Sale Price by Modular Form (2021-2026) & (US\$/Sq m)

Table 36. Global Permeable Gasification Membrane Sale by Application (2021-2026) & (K Sqm)

Table 37. Global Permeable Gasification Membrane Sale Market Share by Application (2021-2026)

Table 38. Global Permeable Gasification Membrane Revenue by Application (2021-2026) & (\$ million)

Table 39. Global Permeable Gasification Membrane Revenue Market Share by Application (2021-2026)

Table 40. Global Permeable Gasification Membrane Sale Price by Application (2021-2026) & (US\$/Sq m)

Table 41. Global Permeable Gasification Membrane Sales by Company (2021-2026) & (K Sqm)

Table 42. Global Permeable Gasification Membrane Sales Market Share by Company (2021-2026)

Table 43. Global Permeable Gasification Membrane Revenue by Company (2021-2026) & (\$ millions)

Table 44. Global Permeable Gasification Membrane Revenue Market Share by

Company (2021-2026)

Table 45. Global Permeable Gasification Membrane Sale Price by Company (2021-2026) & (US\$/Sq m)

Table 46. Key Manufacturers Permeable Gasification Membrane Producing Area Distribution and Sales Area

Table 47. Players Permeable Gasification Membrane Products Offered

Table 48. Permeable Gasification Membrane Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 49. New Products and Potential Entrants

Table 50. Market M&A Activity & Strategy

Table 51. Global Permeable Gasification Membrane Sales by Geographic Region (2021-2026) & (K Sqm)

Table 52. Global Permeable Gasification Membrane Sales Market Share Geographic Region (2021-2026)

Table 53. Global Permeable Gasification Membrane Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 54. Global Permeable Gasification Membrane Revenue Market Share by Geographic Region (2021-2026)

Table 55. Global Permeable Gasification Membrane Sales by Country/Region (2021-2026) & (K Sqm)

Table 56. Global Permeable Gasification Membrane Sales Market Share by Country/Region (2021-2026)

Table 57. Global Permeable Gasification Membrane Revenue by Country/Region (2021-2026) & (\$ millions)

Table 58. Global Permeable Gasification Membrane Revenue Market Share by Country/Region (2021-2026)

Table 59. Americas Permeable Gasification Membrane Sales by Country (2021-2026) & (K Sqm)

Table 60. Americas Permeable Gasification Membrane Sales Market Share by Country (2021-2026)

Table 61. Americas Permeable Gasification Membrane Revenue by Country (2021-2026) & (\$ millions)

Table 62. Americas Permeable Gasification Membrane Sales by Type (2021-2026) & (K Sqm)

Table 63. Americas Permeable Gasification Membrane Sales by Application (2021-2026) & (K Sqm)

Table 64. APAC Permeable Gasification Membrane Sales by Region (2021-2026) & (K Sqm)

Table 65. APAC Permeable Gasification Membrane Sales Market Share by Region

(2021-2026)

Table 66. APAC Permeable Gasification Membrane Revenue by Region (2021-2026) & (\$ millions)

Table 67. APAC Permeable Gasification Membrane Sales by Type (2021-2026) & (K Sqm)

Table 68. APAC Permeable Gasification Membrane Sales by Application (2021-2026) & (K Sqm)

Table 69. Europe Permeable Gasification Membrane Sales by Country (2021-2026) & (K Sqm)

Table 70. Europe Permeable Gasification Membrane Revenue by Country (2021-2026) & (\$ millions)

Table 71. Europe Permeable Gasification Membrane Sales by Type (2021-2026) & (K Sqm)

Table 72. Europe Permeable Gasification Membrane Sales by Application (2021-2026) & (K Sqm)

Table 73. Middle East & Africa Permeable Gasification Membrane Sales by Country (2021-2026) & (K Sqm)

Table 74. Middle East & Africa Permeable Gasification Membrane Revenue Market Share by Country (2021-2026)

Table 75. Middle East & Africa Permeable Gasification Membrane Sales by Type (2021-2026) & (K Sqm)

Table 76. Middle East & Africa Permeable Gasification Membrane Sales by Application (2021-2026) & (K Sqm)

Table 77. Key Market Drivers & Growth Opportunities of Permeable Gasification Membrane

Table 78. Key Market Challenges & Risks of Permeable Gasification Membrane

Table 79. Key Industry Trends of Permeable Gasification Membrane

Table 80. Permeable Gasification Membrane Raw Material

Table 81. Key Suppliers of Raw Materials

Table 82. Permeable Gasification Membrane Distributors List

Table 83. Permeable Gasification Membrane Customer List

Table 84. Global Permeable Gasification Membrane Sales Forecast by Region (2027-2032) & (K Sqm)

Table 85. Global Permeable Gasification Membrane Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 86. Americas Permeable Gasification Membrane Sales Forecast by Country (2027-2032) & (K Sqm)

Table 87. Americas Permeable Gasification Membrane Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. APAC Permeable Gasification Membrane Sales Forecast by Region (2027-2032) & (K Sqm)

Table 89. APAC Permeable Gasification Membrane Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 90. Europe Permeable Gasification Membrane Sales Forecast by Country (2027-2032) & (K Sqm)

Table 91. Europe Permeable Gasification Membrane Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 92. Middle East & Africa Permeable Gasification Membrane Sales Forecast by Country (2027-2032) & (K Sqm)

Table 93. Middle East & Africa Permeable Gasification Membrane Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 94. Global Permeable Gasification Membrane Sales Forecast by Type (2027-2032) & (K Sqm)

Table 95. Global Permeable Gasification Membrane Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 96. Global Permeable Gasification Membrane Sales Forecast by Application (2027-2032) & (K Sqm)

Table 97. Global Permeable Gasification Membrane Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 98. Mitsubishi Chemical Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 99. Mitsubishi Chemical Permeable Gasification Membrane Product Portfolios and Specifications

Table 100. Mitsubishi Chemical Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 101. Mitsubishi Chemical Main Business

Table 102. Mitsubishi Chemical Latest Developments

Table 103. Mitsui E&S Power Systems Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 104. Mitsui E&S Power Systems Permeable Gasification Membrane Product Portfolios and Specifications

Table 105. Mitsui E&S Power Systems Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 106. Mitsui E&S Power Systems Main Business

Table 107. Mitsui E&S Power Systems Latest Developments

Table 108. Petro Sep Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 109. Petro Sep Permeable Gasification Membrane Product Portfolios and

Specifications

Table 110. Petro Sep Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 111. Petro Sep Main Business

Table 112. Petro Sep Latest Developments

Table 113. Kanadevia Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 114. Kanadevia Permeable Gasification Membrane Product Portfolios and Specifications

Table 115. Kanadevia Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 116. Kanadevia Main Business

Table 117. Kanadevia Latest Developments

Table 118. DeltaMem AG Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 119. DeltaMem AG Permeable Gasification Membrane Product Portfolios and Specifications

Table 120. DeltaMem AG Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 121. DeltaMem AG Main Business

Table 122. DeltaMem AG Latest Developments

Table 123. Jiangsu Nine Heaven High-Tech Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 124. Jiangsu Nine Heaven High-Tech Permeable Gasification Membrane Product Portfolios and Specifications

Table 125. Jiangsu Nine Heaven High-Tech Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 126. Jiangsu Nine Heaven High-Tech Main Business

Table 127. Jiangsu Nine Heaven High-Tech Latest Developments

Table 128. Fraunhofer IKTS Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 129. Fraunhofer IKTS Permeable Gasification Membrane Product Portfolios and Specifications

Table 130. Fraunhofer IKTS Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 131. Fraunhofer IKTS Main Business

Table 132. Fraunhofer IKTS Latest Developments

Table 133. Wuhan Zhihong Sibio Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

- Table 134. Wuhan Zhihong Sibio Permeable Gasification Membrane Product Portfolios and Specifications
- Table 135. Wuhan Zhihong Sibio Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 136. Wuhan Zhihong Sibio Main Business
- Table 137. Wuhan Zhihong Sibio Latest Developments
- Table 138. Pervatech Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors
- Table 139. Pervatech Permeable Gasification Membrane Product Portfolios and Specifications
- Table 140. Pervatech Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 141. Pervatech Main Business
- Table 142. Pervatech Latest Developments
- Table 143. Shandong Lanjing Film Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors
- Table 144. Shandong Lanjing Film Permeable Gasification Membrane Product Portfolios and Specifications
- Table 145. Shandong Lanjing Film Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 146. Shandong Lanjing Film Main Business
- Table 147. Shandong Lanjing Film Latest Developments
- Table 148. SINYUAN Membrane Technology Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors
- Table 149. SINYUAN Membrane Technology Permeable Gasification Membrane Product Portfolios and Specifications
- Table 150. SINYUAN Membrane Technology Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 151. SINYUAN Membrane Technology Main Business
- Table 152. SINYUAN Membrane Technology Latest Developments
- Table 153. TANGENT Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors
- Table 154. TANGENT Permeable Gasification Membrane Product Portfolios and Specifications
- Table 155. TANGENT Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
- Table 156. TANGENT Main Business
- Table 157. TANGENT Latest Developments
- Table 158. Zhejiang Hymater New Materials Basic Information, Permeable Gasification

Membrane Manufacturing Base, Sales Area and Its Competitors

Table 159. Zhejiang Hymater New Materials Permeable Gasification Membrane Product Portfolios and Specifications

Table 160. Zhejiang Hymater New Materials Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 161. Zhejiang Hymater New Materials Main Business

Table 162. Zhejiang Hymater New Materials Latest Developments

Table 163. Dalian HST Technology Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 164. Dalian HST Technology Permeable Gasification Membrane Product Portfolios and Specifications

Table 165. Dalian HST Technology Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 166. Dalian HST Technology Main Business

Table 167. Dalian HST Technology Latest Developments

Table 168. i3 Nanotec Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 169. i3 Nanotec Permeable Gasification Membrane Product Portfolios and Specifications

Table 170. i3 Nanotec Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 171. i3 Nanotec Main Business

Table 172. i3 Nanotec Latest Developments

Table 173. Nagayanagi Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 174. Nagayanagi Permeable Gasification Membrane Product Portfolios and Specifications

Table 175. Nagayanagi Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 176. Nagayanagi Main Business

Table 177. Nagayanagi Latest Developments

Table 178. AIRRANE Basic Information, Permeable Gasification Membrane Manufacturing Base, Sales Area and Its Competitors

Table 179. AIRRANE Permeable Gasification Membrane Product Portfolios and Specifications

Table 180. AIRRANE Permeable Gasification Membrane Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 181. AIRRANE Main Business

Table 182. AIRRANE Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Permeable Gasification Membrane
- Figure 2. Permeable Gasification Membrane Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Permeable Gasification Membrane Sales Growth Rate 2021-2032 (K Sqm)
- Figure 7. Global Permeable Gasification Membrane Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Permeable Gasification Membrane Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Permeable Gasification Membrane Sales Market Share by Country/Region (2025)
- Figure 10. Permeable Gasification Membrane Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Organic Membranes
- Figure 12. Product Picture of Inorganic Membranes
- Figure 13. Product Picture of Mixed Matrix Membranes
- Figure 14. Global Permeable Gasification Membrane Sales Market Share by Type in 2026
- Figure 15. Global Permeable Gasification Membrane Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Hydrophilic Membranes
- Figure 17. Product Picture of Hydrophobic Membranes
- Figure 18. Global Permeable Gasification Membrane Sales Market Share by Sorption Affinity Type in 2026
- Figure 19. Global Permeable Gasification Membrane Revenue Market Share by Sorption Affinity Type (2021-2026)
- Figure 20. Product Picture of Solution-Diffusion Model
- Figure 21. Product Picture of Molecular Sieving
- Figure 22. Global Permeable Gasification Membrane Sales Market Share by Mass Transfer Mechanism in 2026
- Figure 23. Global Permeable Gasification Membrane Revenue Market Share by Mass Transfer Mechanism (2021-2026)
- Figure 24. Product Picture of Spiral-wound

Figure 25. Product Picture of Flat-sheet

Figure 26. Product Picture of Tubular

Figure 27. Product Picture of Hollow Fiber

Figure 28. Product Picture of Multichannel Ceramic

Figure 29. Product Picture of Others

Figure 30. Global Permeable Gasification Membrane Sales Market Share by Modular Form in 2026

Figure 31. Global Permeable Gasification Membrane Revenue Market Share by Modular Form (2021-2026)

Figure 32. Permeable Gasification Membrane Consumed in Pharmaceutical and Biotechnology

Figure 33. Global Permeable Gasification Membrane Market: Pharmaceutical and Biotechnology (2021-2026) & (K Sqm)

Figure 34. Permeable Gasification Membrane Consumed in Fine and Specialty Chemicals

Figure 35. Global Permeable Gasification Membrane Market: Fine and Specialty Chemicals (2021-2026) & (K Sqm)

Figure 36. Permeable Gasification Membrane Consumed in Food and Beverages

Figure 37. Global Permeable Gasification Membrane Market: Food and Beverages (2021-2026) & (K Sqm)

Figure 38. Permeable Gasification Membrane Consumed in Waste and Wastewater Treatment

Figure 39. Global Permeable Gasification Membrane Market: Waste and Wastewater Treatment (2021-2026) & (K Sqm)

Figure 40. Permeable Gasification Membrane Consumed in Others

Figure 41. Global Permeable Gasification Membrane Market: Others (2021-2026) & (K Sqm)

Figure 42. Global Permeable Gasification Membrane Sale Market Share by Application (2025)

Figure 43. Global Permeable Gasification Membrane Revenue Market Share by Application in 2026

Figure 44. Permeable Gasification Membrane Sales by Company in 2026 (K Sqm)

Figure 45. Global Permeable Gasification Membrane Sales Market Share by Company in 2026

Figure 46. Permeable Gasification Membrane Revenue by Company in 2026 (\$ millions)

Figure 47. Global Permeable Gasification Membrane Revenue Market Share by Company in 2026

Figure 48. Global Permeable Gasification Membrane Sales Market Share by

Geographic Region (2021-2026)

Figure 49. Global Permeable Gasification Membrane Revenue Market Share by Geographic Region in 2026

Figure 50. Americas Permeable Gasification Membrane Sales 2021-2026 (K Sqm)

Figure 51. Americas Permeable Gasification Membrane Revenue 2021-2026 (\$ millions)

Figure 52. APAC Permeable Gasification Membrane Sales 2021-2026 (K Sqm)

Figure 53. APAC Permeable Gasification Membrane Revenue 2021-2026 (\$ millions)

Figure 54. Europe Permeable Gasification Membrane Sales 2021-2026 (K Sqm)

Figure 55. Europe Permeable Gasification Membrane Revenue 2021-2026 (\$ millions)

Figure 56. Middle East & Africa Permeable Gasification Membrane Sales 2021-2026 (K Sqm)

Figure 57. Middle East & Africa Permeable Gasification Membrane Revenue 2021-2026 (\$ millions)

Figure 58. Americas Permeable Gasification Membrane Sales Market Share by Country in 2026

Figure 59. Americas Permeable Gasification Membrane Revenue Market Share by Country (2021-2026)

Figure 60. Americas Permeable Gasification Membrane Sales Market Share by Type (2021-2026)

Figure 61. Americas Permeable Gasification Membrane Sales Market Share by Application (2021-2026)

Figure 62. United States Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 63. Canada Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 64. Mexico Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 65. Brazil Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 66. APAC Permeable Gasification Membrane Sales Market Share by Region in 2026

Figure 67. APAC Permeable Gasification Membrane Revenue Market Share by Region (2021-2026)

Figure 68. APAC Permeable Gasification Membrane Sales Market Share by Type (2021-2026)

Figure 69. APAC Permeable Gasification Membrane Sales Market Share by Application (2021-2026)

Figure 70. China Permeable Gasification Membrane Revenue Growth 2021-2026 (\$

millions)

Figure 71. Japan Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 72. South Korea Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 73. Southeast Asia Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 74. India Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 75. Australia Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 76. China Taiwan Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 77. Europe Permeable Gasification Membrane Sales Market Share by Country in 2026

Figure 78. Europe Permeable Gasification Membrane Revenue Market Share by Country (2021-2026)

Figure 79. Europe Permeable Gasification Membrane Sales Market Share by Type (2021-2026)

Figure 80. Europe Permeable Gasification Membrane Sales Market Share by Application (2021-2026)

Figure 81. Germany Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 82. France Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 83. UK Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 84. Italy Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 85. Russia Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 86. Middle East & Africa Permeable Gasification Membrane Sales Market Share by Country (2021-2026)

Figure 87. Middle East & Africa Permeable Gasification Membrane Sales Market Share by Type (2021-2026)

Figure 88. Middle East & Africa Permeable Gasification Membrane Sales Market Share by Application (2021-2026)

Figure 89. Egypt Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 90. South Africa Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 91. Israel Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 92. Turkey Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 93. GCC Countries Permeable Gasification Membrane Revenue Growth 2021-2026 (\$ millions)

Figure 94. Manufacturing Cost Structure Analysis of Permeable Gasification Membrane in 2026

Figure 95. Manufacturing Process Analysis of Permeable Gasification Membrane

Figure 96. Industry Chain Structure of Permeable Gasification Membrane

Figure 97. Channels of Distribution

Figure 98. Global Permeable Gasification Membrane Sales Market Forecast by Region (2027-2032)

Figure 99. Global Permeable Gasification Membrane Revenue Market Share Forecast by Region (2027-2032)

Figure 100. Global Permeable Gasification Membrane Sales Market Share Forecast by Type (2027-2032)

Figure 101. Global Permeable Gasification Membrane Revenue Market Share Forecast by Type (2027-2032)

Figure 102. Global Permeable Gasification Membrane Sales Market Share Forecast by Application (2027-2032)

Figure 103. Global Permeable Gasification Membrane Revenue Market Share Forecast by Application (2027-2032)

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