

# Global Hydrogen Gas Separation Membranes Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Hydrogen Gas Separation Membranes market size will reach 254.28 Million USD in 2025 and is projected to reach 387.93 Million USD by 2032, with a CAGR of 6.22% (2025-2032). Notably, the China Hydrogen Gas Separation Membranes market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Hydrogen gas separation membranes are specialized materials designed to selectively allow the permeation of hydrogen gas while restricting the passage of other gases. These membranes play a vital role in various hydrogen-related applications, including hydrogen production, purification, and separation processes. The technology relies on the principle of selective permeation, where hydrogen molecules can pass through the membrane due to their smaller size and unique properties, while other gases are effectively blocked. This selective separation is crucial in applications such as refining hydrogen from gas mixtures, purifying hydrogen produced from various sources, and enabling the efficient functioning of fuel cells by providing high-purity hydrogen. Different types of hydrogen separation membranes exist, including polymer-based membranes, metal membranes, and ceramic membranes, each with specific advantages and applications in diverse industries contributing to the advancement of clean and sustainable energy technologies.

The major global manufacturers of Hydrogen Gas Separation Membranes include Air Liquide, Evonik Industries, BORSIG, Air Products, Linde Engineering, Honeywell, Toray, UBE Industries, Tianbang, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Hydrogen Gas Separation Membranes. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Hydrogen Gas Separation Membranes market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Hydrogen Gas Separation Membranes market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Hydrogen Gas Separation Membranes industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Hydrogen Gas Separation Membranes Include:

Air Liquide

Evonik Industries

BORSIG

Air Products

Linde Engineering

Honeywell

Toray

UBE Industries

Tianbang

Hydrogen Gas Separation Membranes Product Segment Include:

Organic Polymer Membrane

Inorganic Membranes

Hydrogen Gas Separation Membranes Product Application Include:

Refinery Purge Gas

Ammonia Purge Gas

Methanol Purge Gas

Syngas Ratio Adjustment

Gas to Liquids

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Hydrogen Gas Separation Membranes Capacity and Production Analysis

Chapter 3: Global Hydrogen Gas Separation Membranes Industry PESTEL Analysis

Chapter 4: Global Hydrogen Gas Separation Membranes Industry Porter's Five Forces Analysis

Chapter 5: Global Hydrogen Gas Separation Membranes Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 6: Global Hydrogen Gas Separation Membranes Market Size and Forecast by Type and Application Analysis

Chapter 7: North America Hydrogen Gas Separation Membranes Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: Europe Hydrogen Gas Separation Membranes Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: China Hydrogen Gas Separation Membranes Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: APAC (Excl. China) Hydrogen Gas Separation Membranes Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Latin America Hydrogen Gas Separation Membranes Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Middle East and Africa Hydrogen Gas Separation Membranes Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 13: Global Hydrogen Gas Separation Membranes Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 14: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 15: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 16: Research Findings and Conclusion

Chapter 17: Methodology and Data Sources

## Contents

### **1 HYDROGEN GAS SEPARATION MEMBRANES MARKET OVERVIEW**

- 1.1 Product Definition and Statistical Scope
- 1.2 Hydrogen Gas Separation Membranes Product by Type
  - 1.2.1 Organic Polymer Membrane
  - 1.2.2 Inorganic Membranes
- 1.3 Hydrogen Gas Separation Membranes Product by Application
  - 1.3.1 Refinery Purge Gas
  - 1.3.2 Ammonia Purge Gas
  - 1.3.3 Methanol Purge Gas
  - 1.3.4 Syngas Ratio Adjustment
  - 1.3.5 Gas to Liquids
  - 1.3.6 Others
- 1.4 Global Hydrogen Gas Separation Membranes Market Revenue and Sales Analysis
  - 1.4.1 Global Hydrogen Gas Separation Membranes Revenue Market Size Analysis (2020-2032)
  - 1.4.2 Global Hydrogen Gas Separation Membranes Sales Market Size Analysis (2020-2032)
  - 1.4.3 Global Hydrogen Gas Separation Membranes Market Sales Price Trend Analysis (2020-2032)
- 1.5 Hydrogen Gas Separation Membranes Industry Trends and Innovation
  - 1.5.1 Hydrogen Gas Separation Membranes Industry Trends and Innovation
  - 1.5.2 Hydrogen Gas Separation Membranes Market Drivers and Challenges

### **2 GLOBAL HYDROGEN GAS SEPARATION MEMBRANES CAPACITY AND PRODUCTION ANALYSIS**

- 2.1 Global Hydrogen Gas Separation Membranes Capacity, Production and Utilization (2020-2032)
- 2.2 Global Hydrogen Gas Separation Membranes Production Growth Trend by Region: 2024 VS 2025 VS 2030
- 2.3 Global Hydrogen Gas Separation Membranes Production by Region
  - 2.3.1 Global Hydrogen Gas Separation Membranes Production by Region (2020-2025)
  - 2.3.2 Global Hydrogen Gas Separation Membranes Production Forecast by Region (2026-2032)
  - 2.3.3 Global Hydrogen Gas Separation Membranes Production Market Share by Region (2020-2032)

### **3 HYDROGEN GAS SEPARATION MEMBRANES MARKET PESTEL ANALYSIS**

- 3.1 Political Factors Analysis
- 3.2 Economic Factors Analysis
- 3.3 Social Factors Analysis
- 3.4 Technological Factors Analysis
- 3.5 Environmental Factors Analysis
- 3.6 Legal Factors Analysis

### **4 HYDROGEN GAS SEPARATION MEMBRANES MARKET PORTER'S FIVE FORCES ANALYSIS**

- 4.1 Competitive Rivalry
- 4.2 Threat of New Entrants
- 4.3 Bargaining Power of Suppliers
- 4.4 Bargaining Power of Buyers
- 4.5 Threat of Substitutes

### **5 GLOBAL HYDROGEN GAS SEPARATION MEMBRANES MARKET ANALYSIS BY REGIONS**

- 5.1 Hydrogen Gas Separation Membranes Overall Market: 2024 VS 2025 VS 2032
- 5.2 Global Hydrogen Gas Separation Membranes Revenue and Forecast Analysis (2020-2032)
  - 5.2.1 Global Hydrogen Gas Separation Membranes Revenue and Market Share by Region (2020-2025)
  - 5.2.2 Global Hydrogen Gas Separation Membranes Revenue and Market Forecast by Region (2026-2032)
- 5.3 Global Hydrogen Gas Separation Membranes Sales and Forecast Analysis (2020-2032)
  - 5.3.1 Global Hydrogen Gas Separation Membranes Sales and Market Share by Region (2020-2025)
  - 5.3.2 Global Hydrogen Gas Separation Membranes Sales and Market Forecast by Region (2026-2032)
- 5.4 Global Hydrogen Gas Separation Membranes Sales Price Trend Analysis (2020-2032)

### **6 GLOBAL HYDROGEN GAS SEPARATION MEMBRANES MARKET SIZE BY TYPE**

## **AND APPLICATION**

### 6.1 Global Hydrogen Gas Separation Membranes Market Size by Type

6.1.1 Global Hydrogen Gas Separation Membranes Revenue and Forecast Analysis by Type (2020-2032)

6.1.2 Global Hydrogen Gas Separation Membranes Sales and Forecast Analysis by Type (2020-2032)

### 6.2 Global Hydrogen Gas Separation Membranes Market Size by Application

6.2.1 Global Hydrogen Gas Separation Membranes Revenue and Forecast Analysis by Application (2020-2032)

6.2.2 Global Hydrogen Gas Separation Membranes Sales and Forecast Analysis by Application (2020-2032)

## **7 NORTH AMERICA**

7.1 North America Hydrogen Gas Separation Membranes Market Size and Growth Rate Analysis (2020-2032)

7.2 North America Key Manufacturers Analysis

7.3 North America Hydrogen Gas Separation Membranes Market Size by Type

7.3.1 North America Hydrogen Gas Separation Membranes Sales by Type (2020-2032)

7.3.2 North America Hydrogen Gas Separation Membranes Revenue by Type (2020-2032)

7.4 North America Hydrogen Gas Separation Membranes Market Size by Application

7.4.1 North America Hydrogen Gas Separation Membranes Sales by Application (2020-2032)

7.4.2 North America Hydrogen Gas Separation Membranes Revenue by Application (2020-2032)

7.5 North America Hydrogen Gas Separation Membranes Market Size by Country

7.5.1 US

7.5.2 Canada

## **8 EUROPE**

8.1 Europe Hydrogen Gas Separation Membranes Market Size and Growth Rate Analysis (2020-2032)

8.2 Europe Key Manufacturers Analysis

8.3 Europe Hydrogen Gas Separation Membranes Market Size by Type

8.3.1 Europe Hydrogen Gas Separation Membranes Sales by Type (2020-2032)

- 8.3.2 Europe Hydrogen Gas Separation Membranes Revenue by Type (2020-2032)
- 8.4 Europe Hydrogen Gas Separation Membranes Market Size by Application
  - 8.4.1 Europe Hydrogen Gas Separation Membranes Sales by Application (2020-2032)
  - 8.4.2 Europe Hydrogen Gas Separation Membranes Revenue by Application (2020-2032)
- 8.5 Europe Hydrogen Gas Separation Membranes Market Size by Country
  - 8.5.1 Germany
  - 8.5.2 France
  - 8.5.3 United Kingdom
  - 8.5.4 Italy
  - 8.5.5 Spain
  - 8.5.6 Benelux

## **9 CHINA**

- 9.1 China Hydrogen Gas Separation Membranes Market Size and Growth Rate Analysis (2020-2032)
- 9.2 China Key Manufacturers Analysis
- 9.3 China Hydrogen Gas Separation Membranes Market Size by Type
  - 9.3.1 China Hydrogen Gas Separation Membranes Sales by Type (2020-2032)
  - 9.3.2 China Hydrogen Gas Separation Membranes Revenue by Type (2020-2032)
- 9.4 China Hydrogen Gas Separation Membranes Market Size by Application
  - 9.4.1 China Hydrogen Gas Separation Membranes Sales by Application (2020-2032)
  - 9.4.2 China Hydrogen Gas Separation Membranes Revenue by Application (2020-2032)

## **10 APAC (EXCL. CHINA)**

- 10.1 APAC (excl. China) Hydrogen Gas Separation Membranes Market Size and Growth Rate Analysis (2020-2032)
- 10.2 APAC (excl. China) Key Manufacturers Analysis
- 10.3 APAC (excl. China) Hydrogen Gas Separation Membranes Market Size by Type
  - 10.3.1 APAC (excl. China) Hydrogen Gas Separation Membranes Sales by Type (2020-2032)
  - 10.3.2 APAC (excl. China) Hydrogen Gas Separation Membranes Revenue by Type (2020-2032)
- 10.4 APAC (excl. China) Hydrogen Gas Separation Membranes Market Size by Application
  - 10.4.1 APAC (excl. China) Hydrogen Gas Separation Membranes Sales by Application

(2020-2032)

10.4.2 APAC (excl. China) Hydrogen Gas Separation Membranes Revenue by Application (2020-2032)

10.5 APAC (excl. China) Hydrogen Gas Separation Membranes Market Size by Country

10.5.1 Japan

10.5.2 South Korea

10.5.3 India

10.5.4 Australia

10.5.5 Southeast Asia

## **11 LATIN AMERICA**

11.1 Latin America Hydrogen Gas Separation Membranes Market Size and Growth Rate Analysis (2020-2032)

11.2 Latin America Key Manufacturers Analysis

### **11.3 LATIN AMERICA HYDROGEN GAS SEPARATION MEMBRANES MARKET SIZE BY TYPE**

11.3.1 Latin America Hydrogen Gas Separation Membranes Sales by Type (2020-2032)

11.3.2 Latin America Hydrogen Gas Separation Membranes Revenue by Type (2020-2032)

11.4 Latin America Hydrogen Gas Separation Membranes Market Size by Application

11.4.1 Latin America Hydrogen Gas Separation Membranes Sales by Application (2020-2032)

11.4.2 Latin America Hydrogen Gas Separation Membranes Revenue by Application (2020-2032)

11.5 Latin America Hydrogen Gas Separation Membranes Market Size by Country

11.6 Latin America Hydrogen Gas Separation Membranes Market Size by Country

11.6.1 Mexico

11.6.2 Brazil

## **12 MIDDLE EAST & AFRICA**

12.1 Middle East & Africa Hydrogen Gas Separation Membranes Market Size and Growth Rate Analysis (2020-2032)

12.2 Middle East & Africa Key Manufacturers Analysis

12.3 Middle East & Africa Hydrogen Gas Separation Membranes Market Size by Type

12.3.1 Middle East & Africa Hydrogen Gas Separation Membranes Sales by Type (2020-2032)

12.3.2 Middle East & Africa Hydrogen Gas Separation Membranes Revenue by Type (2020-2032)

12.4 Middle East & Africa Hydrogen Gas Separation Membranes Market Size by Application

12.4.1 Middle East & Africa Hydrogen Gas Separation Membranes Sales by Application (2020-2032)

12.4.2 Middle East & Africa Hydrogen Gas Separation Membranes Revenue by Application (2020-2032)

12.5 Middle East Hydrogen Gas Separation Membranes Market Size by Country

12.5.1 Saudi Arabia

12.5.2 South Africa

## **13 COMPETITION BY MANUFACTURERS**

13.1 Global Hydrogen Gas Separation Membranes Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

13.1.1 Global Hydrogen Gas Separation Membranes Market Sales by Key Manufacturers (2021-2025)

13.1.2 Global Hydrogen Gas Separation Membranes Market Revenue by Key Manufacturers (2021-2025)

13.1.3 Global Hydrogen Gas Separation Membranes Average Sales Price by Manufacturers (2021-2025)

13.2 Hydrogen Gas Separation Membranes Competitive Landscape Analysis and Market Dynamic

13.2.1 Hydrogen Gas Separation Membranes Competitive Landscape Analysis

13.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

13.2.3 Market Dynamic

## **14 KEY COMPANIES ANALYSIS**

14.1 Air Liquide

14.1.1 Air Liquide Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.1.2 Air Liquide Hydrogen Gas Separation Membranes Product Portfolio

14.1.3 Air Liquide Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.2 Evonik Industries

14.2.1 Evonik Industries Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.2.2 Evonik Industries Hydrogen Gas Separation Membranes Product Portfolio

14.2.3 Evonik Industries Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.3 BORSIG

14.3.1 BORSIG Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.3.2 BORSIG Hydrogen Gas Separation Membranes Product Portfolio

14.3.3 BORSIG Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.4 Air Products

14.4.1 Air Products Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.4.2 Air Products Hydrogen Gas Separation Membranes Product Portfolio

14.4.3 Air Products Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.5 Linde Engineering

14.5.1 Linde Engineering Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.5.2 Linde Engineering Hydrogen Gas Separation Membranes Product Portfolio

14.5.3 Linde Engineering Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.6 Honeywell

14.6.1 Honeywell Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.6.2 Honeywell Hydrogen Gas Separation Membranes Product Portfolio

14.6.3 Honeywell Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.7 Toray

14.7.1 Toray Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.7.2 Toray Hydrogen Gas Separation Membranes Product Portfolio

14.7.3 Toray Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.8 UBE Industries

14.8.1 UBE Industries Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.8.2 UBE Industries Hydrogen Gas Separation Membranes Product Portfolio

14.8.3 UBE Industries Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.9 Tianbang

14.9.1 Tianbang Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.9.2 Tianbang Hydrogen Gas Separation Membranes Product Portfolio

14.9.3 Tianbang Hydrogen Gas Separation Membranes Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## **15 INDUSTRY CHAIN ANALYSIS**

15.1 Hydrogen Gas Separation Membranes Industry Chain Analysis

15.2 Hydrogen Gas Separation Membranes Industry Raw Material and Suppliers Analysis

15.2.1 Hydrogen Gas Separation Membranes Key Raw Material Supply Analysis

15.2.2 Raw Material Suppliers and Contact Information

15.3 Hydrogen Gas Separation Membranes Typical Downstream Customers

15.4 Hydrogen Gas Separation Membranes Sales Channel Analysis

## **16 RESEARCH FINDINGS AND CONCLUSION**

## **17 METHODOLOGY AND DATA SOURCE**

17.1 Methodology/Research Approach

17.2 Research Scope

17.3 Benchmarks and Assumptions

17.4 Data Source

17.4.1 Primary Sources

17.4.2 Secondary Sources

17.5 Data Cross Validation

17.6 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1: Global Hydrogen Gas Separation Membranes Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Hydrogen Gas Separation Membranes Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Hydrogen Gas Separation Membranes Industry Development Status

Table 4: Hydrogen Gas Separation Membranes Industry Development Trends

Table 5: Global Hydrogen Gas Separation Membranes Production Growth Rate (CAGR) by Region: 2024 VS 2025 VS 2032 (K Pcs)

Table 6: Global Hydrogen Gas Separation Membranes Production by Region (2020-2025) & (K Pcs)

Table 7: Global Hydrogen Gas Separation Membranes Production Forecast by Region (2026-2032) & (K Pcs)

Table 8: Global Hydrogen Gas Separation Membranes Production Market Share by Region (2020-2025)

Table 9: Global Hydrogen Gas Separation Membranes Production Market Share by Region (2026-2032)

Table 10: Global Hydrogen Gas Separation Membranes Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 11: Global Hydrogen Gas Separation Membranes Revenue by Region (2020-2025) & (US\$ Million)

Table 12: Global Hydrogen Gas Separation Membranes Revenue Market Share by Region (2020-2025)

Table 13: Global Hydrogen Gas Separation Membranes Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 14: Global Hydrogen Gas Separation Membranes Revenue Market Share Forecast by Region (2026-2032)

Table 15: Global Hydrogen Gas Separation Membranes Sales by Region (2020-2025) & (K Pcs)

Table 16: Global Hydrogen Gas Separation Membranes Sales Market Share by Region (2020-2025)

Table 17: Global Hydrogen Gas Separation Membranes Sales Forecast by Region (2026-2032) & (K Pcs)

Table 18: Global Hydrogen Gas Separation Membranes Sales Market Share Forecast by Region (2026-2032)

Table 19: Global Hydrogen Gas Separation Membranes Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 20: Global Hydrogen Gas Separation Membranes Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 21: Global Hydrogen Gas Separation Membranes Sales Analysis by Type (2020-2025) & (K Pcs)

Table 22: Global Hydrogen Gas Separation Membranes Sales Analysis Forecast by Type (2026-2032) & (K Pcs)

Table 23: Global Hydrogen Gas Separation Membranes Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 24: Global Hydrogen Gas Separation Membranes Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 25: Global Hydrogen Gas Separation Membranes Sales Analysis by Application (2020-2025) & (K Pcs)

Table 26: Global Hydrogen Gas Separation Membranes Sales Analysis Forecast by Application (2026-2032) & (K Pcs)

Table 27: Key Hydrogen Gas Separation Membranes Players in North America

Table 28: North America Hydrogen Gas Separation Membranes Sales by Type (2020-2025) & (K Pcs)

Table 29: North America Hydrogen Gas Separation Membranes Sales by Type (2026-2032) & (K Pcs)

Table 30: North America Hydrogen Gas Separation Membranes Revenue by Type (2020-2025) & (US\$ Million)

Table 31: North America Hydrogen Gas Separation Membranes Revenue by Type (2026-2032) & (US\$ Million)

Table 32: North America Hydrogen Gas Separation Membranes Sales by Application (2020-2025) & (K Pcs)

Table 33: North America Hydrogen Gas Separation Membranes Sales by Application (2026-2032) & (K Pcs)

Table 34: North America Hydrogen Gas Separation Membranes Revenue by Application (2020-2025) & (US\$ Million)

Table 35: North America Hydrogen Gas Separation Membranes Revenue by Application (2026-2032) & (US\$ Million)

Table 36: North America Hydrogen Gas Separation Membranes Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 37: North America Hydrogen Gas Separation Membranes Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 38: North America Hydrogen Gas Separation Membranes Sales Market Size by Country (2020-2025) & (K Pcs)

Table 39: North America Hydrogen Gas Separation Membranes Sales Market Size by Country (2026-2032) & (K Pcs)

Table 40: Key Hydrogen Gas Separation Membranes Players in Europe

Table 41: Europe Hydrogen Gas Separation Membranes Sales by Type (2020-2025) & (K Pcs)

Table 42: Europe Hydrogen Gas Separation Membranes Sales by Type (2026-2032) & (K Pcs)

Table 43: Europe Hydrogen Gas Separation Membranes Revenue by Type (2020-2025) & (US\$ Million)

Table 44: Europe Hydrogen Gas Separation Membranes Revenue by Type (2026-2032) & (US\$ Million)

Table 45: Europe Hydrogen Gas Separation Membranes Sales by Application (2020-2025) & (K Pcs)

Table 46: Europe Hydrogen Gas Separation Membranes Sales by Application (2026-2032) & (K Pcs)

Table 47: Europe Hydrogen Gas Separation Membranes Revenue by Application (2020-2025) & (US\$ Million)

Table 48: Europe Hydrogen Gas Separation Membranes Revenue by Application (2026-2032) & (US\$ Million)

Table 49: Europe Hydrogen Gas Separation Membranes Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 50: Europe Hydrogen Gas Separation Membranes Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 51: Europe Hydrogen Gas Separation Membranes Sales Market Size by Country (2020-2025) & (K Pcs)

Table 52: Europe Hydrogen Gas Separation Membranes Sales Market Size Forecast by Country (2026-2032) & (K Pcs)

Table 53: Key Hydrogen Gas Separation Membranes Players in China

Table 54: China Hydrogen Gas Separation Membranes Sales by Type (2020-2025) & (K Pcs)

Table 55: China Hydrogen Gas Separation Membranes Sales by Type (2026-2032) & (K Pcs)

Table 56: China Hydrogen Gas Separation Membranes Revenue by Type (2020-2025) & (US\$ Million)

Table 57: China Hydrogen Gas Separation Membranes Revenue by Type (2026-2032) & (US\$ Million)

Table 58: China Hydrogen Gas Separation Membranes Sales by Application (2020-2025) & (K Pcs)

Table 59: China Hydrogen Gas Separation Membranes Sales by Application (2026-2032) & (K Pcs)

Table 60: China Hydrogen Gas Separation Membranes Revenue by Application

(2020-2025) & (US\$ Million)

Table 61: China Hydrogen Gas Separation Membranes Revenue by Application

(2026-2032) & (US\$ Million)

Table 62: Key Hydrogen Gas Separation Membranes Players in APAC (excl. China)

Table 63: APAC (excl. China) Hydrogen Gas Separation Membranes Sales by Type

(2020-2025) & (K Pcs)

Table 64: APAC (excl. China) Hydrogen Gas Separation Membranes Sales by Type

(2026-2032) & (K Pcs)

Table 65: APAC (excl. China) Hydrogen Gas Separation Membranes Revenue by Type

(2020-2025) & (US\$ Million)

Table 66: APAC (excl. China) Hydrogen Gas Separation Membranes Revenue by Type

(2026-2032) & (US\$ Million)

Table 67: APAC (excl. China) Hydrogen Gas Separation Membranes Sales by

Application (2020-2025) & (K Pcs)

Table 68: APAC (excl. China) Hydrogen Gas Separation Membranes Sales by

Application (2026-2032) & (K Pcs)

Table 69: APAC (excl. China) Hydrogen Gas Separation Membranes Revenue by

Application (2020-2025) & (US\$ Million)

Table 70: APAC (excl. China) Hydrogen Gas Separation Membranes Revenue by

Application (2026-2032) & (US\$ Million)

Table 71:: APAC (excl. China) Hydrogen Gas Separation Membranes Revenue Market

Size by Country (2020-2025) & (US\$ Million)

Table 72: APAC (excl. China) Hydrogen Gas Separation Membranes Revenue Market

Size Forecast by Country (2026-2032) & (US\$ Million)

Table 73: APAC (excl. China) Hydrogen Gas Separation Membranes Sales Market Size

by Country (2020-2025) & (K Pcs)

Table 74: APAC (excl. China) Hydrogen Gas Separation Membranes Sales Market Size

Forecast by Country (2026-2032) & (K Pcs)

Table 75: Key Hydrogen Gas Separation Membranes Players in Latin America

Table 76: Latin America Hydrogen Gas Separation Membranes Sales by Type

(2020-2025) & (K Pcs)

Table 77: Latin America Hydrogen Gas Separation Membranes Sales by Type

(2026-2032) & (K Pcs)

Table 78: Latin America Hydrogen Gas Separation Membranes Revenue by Type

(2020-2025) & (US\$ Million)

Table 79: Latin America Hydrogen Gas Separation Membranes Revenue by Type

(2026-2032) & (US\$ Million)

Table 80: Latin America Hydrogen Gas Separation Membranes Sales by Application

(2020-2025) & (K Pcs)

Table 81: Latin America Hydrogen Gas Separation Membranes Sales by Application (2026-2032) & (K Pcs)

Table 82: Latin America Hydrogen Gas Separation Membranes Revenue by Application (2020-2025) & (US\$ Million)

Table 83: Latin America Hydrogen Gas Separation Membranes Revenue by Application (2026-2032) & (US\$ Million)

Table 84: Latin America Hydrogen Gas Separation Membranes Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 85: Latin America Hydrogen Gas Separation Membranes Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 86: Latin America Hydrogen Gas Separation Membranes Sales Market Size by Country (2020-2025) & (K Pcs)

Table 87: Latin America Hydrogen Gas Separation Membranes Sales Market Size Forecast by Country (2026-2032) & (K Pcs)

Table 88: Key Hydrogen Gas Separation Membranes Players in Middle East & Africa

Table 89: Middle East & Africa Hydrogen Gas Separation Membranes Sales by Type (2020-2025) & (K Pcs)

Table 90: Middle East & Africa Hydrogen Gas Separation Membranes Sales by Type (2026-2032) & (K Pcs)

Table 91: Middle East & Africa Hydrogen Gas Separation Membranes Revenue by Type (2020-2025) & (US\$ Million)

Table 92: Middle East & Africa Hydrogen Gas Separation Membranes Revenue by Type (2026-2032) & (US\$ Million)

Table 93: Middle East & Africa Hydrogen Gas Separation Membranes Sales by Application (2020-2025) & (K Pcs)

Table 94: Middle East & Africa Hydrogen Gas Separation Membranes Sales by Application (2026-2032) & (K Pcs)

Table 95: Middle East & Africa Hydrogen Gas Separation Membranes Revenue by Application (2020-2025) & (US\$ Million)

Table 96: Middle East & Africa Hydrogen Gas Separation Membranes Revenue by Application (2026-2032) & (US\$ Million)

Table 97: Middle East & Africa Hydrogen Gas Separation Membranes Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 98: Middle East & Africa Hydrogen Gas Separation Membranes Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 99: Middle East & Africa Hydrogen Gas Separation Membranes Sales Market Size by Country (2020-2025) & (K Pcs)

Table 100: Middle East & Africa Hydrogen Gas Separation Membranes Sales Market Size Forecast by Country (2026-2032) & (K Pcs)

Table 101: Global Hydrogen Gas Separation Membranes Market Sales by Key Manufacturers (2021-2025) & (K Pcs)

Table 102: Global Hydrogen Gas Separation Membranes Sales Market Share by Key Manufacturers (2021-2025)

Table 103: Global Hydrogen Gas Separation Membranes Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 104: Global Hydrogen Gas Separation Membranes Revenue Market Share by Key Manufacturers (2021-2025)

Table 105: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Pcs)

Table 106: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 107: Market Mergers & Acquisitions, Expansion

Table 108: Air Liquide Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 109: Air Liquide Hydrogen Gas Separation Membranes Product Portfolio

Table 110: Air Liquide Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 111: Evonik Industries Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 112: Evonik Industries Hydrogen Gas Separation Membranes Product Portfolio

Table 113: Evonik Industries Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 114: BORSIG Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 115: BORSIG Hydrogen Gas Separation Membranes Product Portfolio

Table 116: BORSIG Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 117: Air Products Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 118: Air Products Hydrogen Gas Separation Membranes Product Portfolio

Table 119: Air Products Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 120: Linde Engineering Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 121: Linde Engineering Hydrogen Gas Separation Membranes Product Portfolio

Table 122: Linde Engineering Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 123: Honeywell Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 124: Honeywell Hydrogen Gas Separation Membranes Product Portfolio

Table 125: Honeywell Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 126: Toray Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 127: Toray Hydrogen Gas Separation Membranes Product Portfolio

Table 128: Toray Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 129: UBE Industries Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 130: UBE Industries Hydrogen Gas Separation Membranes Product Portfolio

Table 131: UBE Industries Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 132: Tianbang Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 133: Tianbang Hydrogen Gas Separation Membranes Product Portfolio

Table 134: Tianbang Hydrogen Gas Separation Membranes Revenue (US\$ Million), Sales (K Pcs), Price (USD/Pcs), Gross Margin and Market Share (2021-2025)

Table 135: Upstream Key Raw Material Price List

Table 136: Hydrogen Gas Separation Membranes Raw Material Suppliers and Contact Information

Table 137: Hydrogen Gas Separation Membranes Typical Customer List

Table 138: Hydrogen Gas Separation Membranes Distributors List

## List Of Figures

### LIST OF FIGURES

Figure 1: Hydrogen Gas Separation Membranes Product Pictures

Figure 2: Organic Polymer Membrane Picture Scope

Figure 3: Inorganic Membranes Picture Scope

Figure 4: Refinery Purge Gas Picture Scope

Figure 5: Ammonia Purge Gas Picture Scope

Figure 6: Methanol Purge Gas Picture Scope

Figure 7: Syngas Ratio Adjustment Picture Scope

Figure 8: Gas to Liquids Picture Scope

Figure 9: Others Picture Scope

Figure 10: Global Hydrogen Gas Separation Membranes Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 11: Global Hydrogen Gas Separation Membranes Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 12: Global Hydrogen Gas Separation Membranes Market Sales and Growth Rate Analysis (2020-2032) & (K Pcs)

Figure 13: Global Hydrogen Gas Separation Membranes Market Price Trend Analysis (2020-2032) & (USD/Pcs)

Figure 14: Global Hydrogen Gas Separation Membranes Capacity, Production and Utilization (2019-2030) & (K Pcs)

Figure 15: Global Hydrogen Gas Separation Membranes Production by Region: 2023 VS 2024 VS 2030 (K Pcs)

Figure 16: Global Hydrogen Gas Separation Membranes Production Market Share by Region in Percentage: 2024 Versus 2030

Figure 17: Global Hydrogen Gas Separation Membranes Production Market Share by Region (2019-2030)

Figure 18: Global Hydrogen Gas Separation Membranes Market Size by Region (2020-2032) & (US\$ Million)

Figure 19: Global Hydrogen Gas Separation Membranes Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 20: Global Hydrogen Gas Separation Membranes Sales Price by Region (2020-2032) & (K Pcs)

Figure 21: North America Hydrogen Gas Separation Membranes Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 22: North America Hydrogen Gas Separation Membranes Revenue Market Share by Players in 2024

Figure 23:North America Hydrogen Gas Separation Membranes Sales Market Share by Type (2020-2032)

Figure 24:North America Hydrogen Gas Separation Membranes Revenue Market Share by Type (2020-2032)

Figure 25:North America Hydrogen Gas Separation Membranes Sales Market Share by Application (2020-2032)

Figure 26:North America Hydrogen Gas Separation Membranes Revenue Market Share by Application (2020-2032)

Figure 27:US Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 28:Canada Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 29:Europe Hydrogen Gas Separation Membranes Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 30:Europe Hydrogen Gas Separation Membranes Revenue Market Share by Players in 2024

Figure 31:Europe Hydrogen Gas Separation Membranes Sales Market Share by Type (2020-2032)

Figure 32:Europe Hydrogen Gas Separation Membranes Revenue Market Share by Type (2020-2032)

Figure 33:Europe Hydrogen Gas Separation Membranes Sales Market Share by Application (2020-2032)

Figure 34:Europe Hydrogen Gas Separation Membranes Revenue Market Share by Application (2020-2032)

Figure 35:Germany Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 36:France Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 37:United Kingdom Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 38:Italy Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 39:Spain Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 40:Benelux Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 41:China Hydrogen Gas Separation Membranes Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 42:China Hydrogen Gas Separation Membranes Revenue Market Share by

## Players in 2024

Figure 43:China Hydrogen Gas Separation Membranes Sales Market Share by Type (2020-2032)

Figure 44:China Hydrogen Gas Separation Membranes Revenue Market Share by Type (2020-2032)

Figure 45:China Hydrogen Gas Separation Membranes Sales Market Share by Application (2020-2032)

Figure 46:China Hydrogen Gas Separation Membranes Revenue Market Share by Application (2020-2032)

Figure 47:APAC (excl. China) Hydrogen Gas Separation Membranes Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 48:APAC (excl. China) Hydrogen Gas Separation Membranes Revenue Market Share by Players in 2024

Figure 49:APAC (excl. China) Hydrogen Gas Separation Membranes Sales Market Share by Type (2020-2032)

Figure 50:APAC (excl. China) Hydrogen Gas Separation Membranes Revenue Market Share by Type (2020-2032)

Figure 51:APAC (excl. China) Hydrogen Gas Separation Membranes Sales Market Share by Application (2020-2032)

Figure 52:APAC (excl. China) Hydrogen Gas Separation Membranes Revenue Market Share by Application (2020-2032)

Figure 53:Japan Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 54:South Korea Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 55:India Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 56:Australia Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 57:Southeast Asia Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 58:Latin America Hydrogen Gas Separation Membranes Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 59:Latin America Hydrogen Gas Separation Membranes Revenue Market Share by Players in 2024

Figure 60:Latin America Hydrogen Gas Separation Membranes Sales Market Share by Type (2020-2032)

Figure 61:Latin America Hydrogen Gas Separation Membranes Revenue Market Share by Type (2020-2032)

Figure 62:Latin America Hydrogen Gas Separation Membranes Sales Market Share by Application (2020-2032)

Figure 63:Latin America Hydrogen Gas Separation Membranes Revenue Market Share by Application (2020-2032)

Figure 64:Mexico Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 65:Brazil Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 66:Middle East & Africa Hydrogen Gas Separation Membranes Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 67:Middle East & Africa Hydrogen Gas Separation Membranes Revenue Market Share by Players in 2024

Figure 68:Middle East & Africa Hydrogen Gas Separation Membranes Sales Market Share by Type (2020-2032)

Figure 69:Middle East & Africa Hydrogen Gas Separation Membranes Revenue Market Share by Type (2020-2032)

Figure 70:Middle East & Africa Hydrogen Gas Separation Membranes Sales Market Share by Application (2020-2032)

Figure 71:Middle East & Africa Hydrogen Gas Separation Membranes Revenue Market Share by Application (2020-2032)

Figure 72:Saudi Arabia Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 73:South Africa Hydrogen Gas Separation Membranes Revenue (2020-2032) & (US\$ Million)

Figure 74:Global Hydrogen Gas Separation Membranes Sales Market Share by Key Manufacturers in 2024

Figure 75:Global Hydrogen Gas Separation Membranes Revenue Market Share by Key Manufacturers in 2024

Figure 76:Global Hydrogen Gas Separation Membranes Industry Competition Landscape

Figure 77:Hydrogen Gas Separation Membranes Industry Chain Analysis

Figure 78:Bottom-Up and Top-Down Research Methods

Figure 79:Key Interview Objectives

Figure 80:Data Cross Validation

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