

Global Gas Separation Membranes Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G34702794F8EN.html>

Date: January 2024

Pages: 115

Price: US\$ 3,480.00 (Single User License)

ID: G34702794F8EN

Abstracts

According to our (Global Info Research) latest study, the global Gas Separation Membranes market size was valued at USD 635.9 million in 2023 and is forecast to a readjusted size of USD 883.1 million by 2030 with a CAGR of 4.8% during review period.

Gas Separation Membranes is an interphase between two adjacent phases acting as a selective barrier, regulating the transport of gases among gas mixtures. Gas separation across a membrane is a pressure-driven process, where the driving force is the difference in pressure between inlet of raw material and outlet of product. The membrane used in the process is a generally non-porous layer, so there will not be a severe leakage of gas through the membrane. Gas separation membranes work according to the principle of selective permeation through the membrane surface. The permeation rate of each gas depends on its solubility in the membrane material and on the diffusion rate of the gas. Gases with high solubility and small molecules pass through the membrane very quickly.

Global key players of gas separation membranes include Air Products, Air Liquide and UBE. The top three manufacturers account for about 64% of the global share, with the largest producer being Air Products, with a market share of about 30%. Global origins are mainly located in North America, Europe, China and Japan, with North America being the largest production region, holding more than 50% of the market share. In terms of product, hollow fiber is the largest segment, with a share about 89%. In terms of application, isolation of inert N₂ from air is the largest market, with a share about 29%.

The Global Info Research report includes an overview of the development of the Gas Separation Membranes industry chain, the market status of Isolation of Inert N₂ from Air (Hollow Fiber, Spiral Wound), H₂ Recovery (Hollow Fiber, Spiral Wound), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Gas Separation Membranes.

Regionally, the report analyzes the Gas Separation Membranes markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Gas Separation Membranes market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Gas Separation Membranes market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Gas Separation Membranes industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Hollow Fiber, Spiral Wound).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Gas Separation Membranes market.

Regional Analysis: The report involves examining the Gas Separation Membranes market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Gas Separation Membranes market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Gas Separation Membranes:

Company Analysis: Report covers individual Gas Separation Membranes manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Gas Separation Membranes. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Isolation of Inert N₂ from Air, H₂ Recovery).

Technology Analysis: Report covers specific technologies relevant to Gas Separation Membranes. It assesses the current state, advancements, and potential future developments in Gas Separation Membranes areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Gas Separation Membranes market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Gas Separation Membranes market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Hollow Fiber

Spiral Wound

Others

Market segment by Application

- Isolation of Inert N2 from Air
- H2 Recovery
- CO2 Removal from Natural Gas
- Vapor/Nitrogen Separation
- Others

Major players covered

- Air Products
- Air Liquide
- UBE
- Grasys
- Evonik
- Fujifilm
- Generon IGS
- Honeywell
- MTR
- Borsig
- Parker Hannifin
- Tianbang

SSS

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Gas Separation Membranes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gas Separation Membranes, with price, sales, revenue and global market share of Gas Separation Membranes from 2019 to 2024.

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

Chapter 4, the Gas Separation Membranes breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017

to 2023.and Gas Separation Membranes market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Gas Separation Membranes.

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

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Gas Separation Membranes
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Gas Separation Membranes Consumption Value by Type: 2019 Versus 2023 Versus 2030
 - 1.3.2 Hollow Fiber
 - 1.3.3 Spiral Wound
 - 1.3.4 Others
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Gas Separation Membranes Consumption Value by Application: 2019 Versus 2023 Versus 2030
 - 1.4.2 Isolation of Inert N2 from Air
 - 1.4.3 H2 Recovery
 - 1.4.4 CO2 Removal from Natural Gas
 - 1.4.5 Vapor/Nitrogen Separation
 - 1.4.6 Others
- 1.5 Global Gas Separation Membranes Market Size & Forecast
 - 1.5.1 Global Gas Separation Membranes Consumption Value (2019 & 2023 & 2030)
 - 1.5.2 Global Gas Separation Membranes Sales Quantity (2019-2030)
 - 1.5.3 Global Gas Separation Membranes Average Price (2019-2030)

2 MANUFACTURERS PROFILES

- 2.1 Air Products
 - 2.1.1 Air Products Details
 - 2.1.2 Air Products Major Business
 - 2.1.3 Air Products Gas Separation Membranes Product and Services
 - 2.1.4 Air Products Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.1.5 Air Products Recent Developments/Updates
- 2.2 Air Liquide
 - 2.2.1 Air Liquide Details
 - 2.2.2 Air Liquide Major Business
 - 2.2.3 Air Liquide Gas Separation Membranes Product and Services
 - 2.2.4 Air Liquide Gas Separation Membranes Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Air Liquide Recent Developments/Updates

2.3 UBE

2.3.1 UBE Details

2.3.2 UBE Major Business

2.3.3 UBE Gas Separation Membranes Product and Services

2.3.4 UBE Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 UBE Recent Developments/Updates

2.4 Grasys

2.4.1 Grasys Details

2.4.2 Grasys Major Business

2.4.3 Grasys Gas Separation Membranes Product and Services

2.4.4 Grasys Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Grasys Recent Developments/Updates

2.5 Evonik

2.5.1 Evonik Details

2.5.2 Evonik Major Business

2.5.3 Evonik Gas Separation Membranes Product and Services

2.5.4 Evonik Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Evonik Recent Developments/Updates

2.6 Fujifilm

2.6.1 Fujifilm Details

2.6.2 Fujifilm Major Business

2.6.3 Fujifilm Gas Separation Membranes Product and Services

2.6.4 Fujifilm Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Fujifilm Recent Developments/Updates

2.7 Generon IGS

2.7.1 Generon IGS Details

2.7.2 Generon IGS Major Business

2.7.3 Generon IGS Gas Separation Membranes Product and Services

2.7.4 Generon IGS Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Generon IGS Recent Developments/Updates

2.8 Honeywell

2.8.1 Honeywell Details

- 2.8.2 Honeywell Major Business
- 2.8.3 Honeywell Gas Separation Membranes Product and Services
- 2.8.4 Honeywell Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 Honeywell Recent Developments/Updates
- 2.9 MTR
 - 2.9.1 MTR Details
 - 2.9.2 MTR Major Business
 - 2.9.3 MTR Gas Separation Membranes Product and Services
 - 2.9.4 MTR Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.9.5 MTR Recent Developments/Updates
- 2.10 Borsig
 - 2.10.1 Borsig Details
 - 2.10.2 Borsig Major Business
 - 2.10.3 Borsig Gas Separation Membranes Product and Services
 - 2.10.4 Borsig Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.10.5 Borsig Recent Developments/Updates
- 2.11 Parker Hannifin
 - 2.11.1 Parker Hannifin Details
 - 2.11.2 Parker Hannifin Major Business
 - 2.11.3 Parker Hannifin Gas Separation Membranes Product and Services
 - 2.11.4 Parker Hannifin Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.11.5 Parker Hannifin Recent Developments/Updates
- 2.12 Tianbang
 - 2.12.1 Tianbang Details
 - 2.12.2 Tianbang Major Business
 - 2.12.3 Tianbang Gas Separation Membranes Product and Services
 - 2.12.4 Tianbang Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.12.5 Tianbang Recent Developments/Updates
- 2.13 SSS
 - 2.13.1 SSS Details
 - 2.13.2 SSS Major Business
 - 2.13.3 SSS Gas Separation Membranes Product and Services
 - 2.13.4 SSS Gas Separation Membranes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 SSS Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: GAS SEPARATION MEMBRANES BY MANUFACTURER

3.1 Global Gas Separation Membranes Sales Quantity by Manufacturer (2019-2024)

3.2 Global Gas Separation Membranes Revenue by Manufacturer (2019-2024)

3.3 Global Gas Separation Membranes Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Gas Separation Membranes by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Gas Separation Membranes Manufacturer Market Share in 2023

3.4.2 Top 6 Gas Separation Membranes Manufacturer Market Share in 2023

3.5 Gas Separation Membranes Market: Overall Company Footprint Analysis

3.5.1 Gas Separation Membranes Market: Region Footprint

3.5.2 Gas Separation Membranes Market: Company Product Type Footprint

3.5.3 Gas Separation Membranes Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Gas Separation Membranes Market Size by Region

4.1.1 Global Gas Separation Membranes Sales Quantity by Region (2019-2030)

4.1.2 Global Gas Separation Membranes Consumption Value by Region (2019-2030)

4.1.3 Global Gas Separation Membranes Average Price by Region (2019-2030)

4.2 North America Gas Separation Membranes Consumption Value (2019-2030)

4.3 Europe Gas Separation Membranes Consumption Value (2019-2030)

4.4 Asia-Pacific Gas Separation Membranes Consumption Value (2019-2030)

4.5 South America Gas Separation Membranes Consumption Value (2019-2030)

4.6 Middle East and Africa Gas Separation Membranes Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

5.1 Global Gas Separation Membranes Sales Quantity by Type (2019-2030)

5.2 Global Gas Separation Membranes Consumption Value by Type (2019-2030)

5.3 Global Gas Separation Membranes Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Gas Separation Membranes Sales Quantity by Application (2019-2030)

6.2 Global Gas Separation Membranes Consumption Value by Application (2019-2030)

6.3 Global Gas Separation Membranes Average Price by Application (2019-2030)

7 NORTH AMERICA

7.1 North America Gas Separation Membranes Sales Quantity by Type (2019-2030)

7.2 North America Gas Separation Membranes Sales Quantity by Application (2019-2030)

7.3 North America Gas Separation Membranes Market Size by Country

7.3.1 North America Gas Separation Membranes Sales Quantity by Country (2019-2030)

7.3.2 North America Gas Separation Membranes Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Gas Separation Membranes Sales Quantity by Type (2019-2030)

8.2 Europe Gas Separation Membranes Sales Quantity by Application (2019-2030)

8.3 Europe Gas Separation Membranes Market Size by Country

8.3.1 Europe Gas Separation Membranes Sales Quantity by Country (2019-2030)

8.3.2 Europe Gas Separation Membranes Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Gas Separation Membranes Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Gas Separation Membranes Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Gas Separation Membranes Market Size by Region

9.3.1 Asia-Pacific Gas Separation Membranes Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Gas Separation Membranes Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Gas Separation Membranes Sales Quantity by Type (2019-2030)

10.2 South America Gas Separation Membranes Sales Quantity by Application (2019-2030)

10.3 South America Gas Separation Membranes Market Size by Country

10.3.1 South America Gas Separation Membranes Sales Quantity by Country (2019-2030)

10.3.2 South America Gas Separation Membranes Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Gas Separation Membranes Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Gas Separation Membranes Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Gas Separation Membranes Market Size by Country

11.3.1 Middle East & Africa Gas Separation Membranes Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Gas Separation Membranes Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 Gas Separation Membranes Market Drivers
- 12.2 Gas Separation Membranes Market Restraints
- 12.3 Gas Separation Membranes Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Gas Separation Membranes and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Gas Separation Membranes
- 13.3 Gas Separation Membranes Production Process
- 13.4 Gas Separation Membranes Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Gas Separation Membranes Typical Distributors
- 14.3 Gas Separation Membranes Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Gas Separation Membranes Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Gas Separation Membranes Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Air Products Basic Information, Manufacturing Base and Competitors

Table 4. Air Products Major Business

Table 5. Air Products Gas Separation Membranes Product and Services

Table 6. Air Products Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Air Products Recent Developments/Updates

Table 8. Air Liquide Basic Information, Manufacturing Base and Competitors

Table 9. Air Liquide Major Business

Table 10. Air Liquide Gas Separation Membranes Product and Services

Table 11. Air Liquide Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Air Liquide Recent Developments/Updates

Table 13. UBE Basic Information, Manufacturing Base and Competitors

Table 14. UBE Major Business

Table 15. UBE Gas Separation Membranes Product and Services

Table 16. UBE Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. UBE Recent Developments/Updates

Table 18. Grasy's Basic Information, Manufacturing Base and Competitors

Table 19. Grasy's Major Business

Table 20. Grasy's Gas Separation Membranes Product and Services

Table 21. Grasy's Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Grasy's Recent Developments/Updates

Table 23. Evonik Basic Information, Manufacturing Base and Competitors

Table 24. Evonik Major Business

Table 25. Evonik Gas Separation Membranes Product and Services

Table 26. Evonik Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Evonik Recent Developments/Updates

Table 28. Fujifilm Basic Information, Manufacturing Base and Competitors

Table 29. Fujifilm Major Business

Table 30. Fujifilm Gas Separation Membranes Product and Services

Table 31. Fujifilm Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Fujifilm Recent Developments/Updates

Table 33. Generon IGS Basic Information, Manufacturing Base and Competitors

Table 34. Generon IGS Major Business

Table 35. Generon IGS Gas Separation Membranes Product and Services

Table 36. Generon IGS Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Generon IGS Recent Developments/Updates

Table 38. Honeywell Basic Information, Manufacturing Base and Competitors

Table 39. Honeywell Major Business

Table 40. Honeywell Gas Separation Membranes Product and Services

Table 41. Honeywell Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Honeywell Recent Developments/Updates

Table 43. MTR Basic Information, Manufacturing Base and Competitors

Table 44. MTR Major Business

Table 45. MTR Gas Separation Membranes Product and Services

Table 46. MTR Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. MTR Recent Developments/Updates

Table 48. Borsig Basic Information, Manufacturing Base and Competitors

Table 49. Borsig Major Business

Table 50. Borsig Gas Separation Membranes Product and Services

Table 51. Borsig Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Borsig Recent Developments/Updates

Table 53. Parker Hannifin Basic Information, Manufacturing Base and Competitors

Table 54. Parker Hannifin Major Business

Table 55. Parker Hannifin Gas Separation Membranes Product and Services

Table 56. Parker Hannifin Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Parker Hannifin Recent Developments/Updates

Table 58. Tianbang Basic Information, Manufacturing Base and Competitors

Table 59. Tianbang Major Business

Table 60. Tianbang Gas Separation Membranes Product and Services

- Table 61. Tianbang Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 62. Tianbang Recent Developments/Updates
- Table 63. SSS Basic Information, Manufacturing Base and Competitors
- Table 64. SSS Major Business
- Table 65. SSS Gas Separation Membranes Product and Services
- Table 66. SSS Gas Separation Membranes Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 67. SSS Recent Developments/Updates
- Table 68. Global Gas Separation Membranes Sales Quantity by Manufacturer (2019-2024) & (K Units)
- Table 69. Global Gas Separation Membranes Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 70. Global Gas Separation Membranes Average Price by Manufacturer (2019-2024) & (USD/Unit)
- Table 71. Market Position of Manufacturers in Gas Separation Membranes, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
- Table 72. Head Office and Gas Separation Membranes Production Site of Key Manufacturer
- Table 73. Gas Separation Membranes Market: Company Product Type Footprint
- Table 74. Gas Separation Membranes Market: Company Product Application Footprint
- Table 75. Gas Separation Membranes New Market Entrants and Barriers to Market Entry
- Table 76. Gas Separation Membranes Mergers, Acquisition, Agreements, and Collaborations
- Table 77. Global Gas Separation Membranes Sales Quantity by Region (2019-2024) & (K Units)
- Table 78. Global Gas Separation Membranes Sales Quantity by Region (2025-2030) & (K Units)
- Table 79. Global Gas Separation Membranes Consumption Value by Region (2019-2024) & (USD Million)
- Table 80. Global Gas Separation Membranes Consumption Value by Region (2025-2030) & (USD Million)
- Table 81. Global Gas Separation Membranes Average Price by Region (2019-2024) & (USD/Unit)
- Table 82. Global Gas Separation Membranes Average Price by Region (2025-2030) & (USD/Unit)
- Table 83. Global Gas Separation Membranes Sales Quantity by Type (2019-2024) & (K Units)

Table 84. Global Gas Separation Membranes Sales Quantity by Type (2025-2030) & (K Units)

Table 85. Global Gas Separation Membranes Consumption Value by Type (2019-2024) & (USD Million)

Table 86. Global Gas Separation Membranes Consumption Value by Type (2025-2030) & (USD Million)

Table 87. Global Gas Separation Membranes Average Price by Type (2019-2024) & (USD/Unit)

Table 88. Global Gas Separation Membranes Average Price by Type (2025-2030) & (USD/Unit)

Table 89. Global Gas Separation Membranes Sales Quantity by Application (2019-2024) & (K Units)

Table 90. Global Gas Separation Membranes Sales Quantity by Application (2025-2030) & (K Units)

Table 91. Global Gas Separation Membranes Consumption Value by Application (2019-2024) & (USD Million)

Table 92. Global Gas Separation Membranes Consumption Value by Application (2025-2030) & (USD Million)

Table 93. Global Gas Separation Membranes Average Price by Application (2019-2024) & (USD/Unit)

Table 94. Global Gas Separation Membranes Average Price by Application (2025-2030) & (USD/Unit)

Table 95. North America Gas Separation Membranes Sales Quantity by Type (2019-2024) & (K Units)

Table 96. North America Gas Separation Membranes Sales Quantity by Type (2025-2030) & (K Units)

Table 97. North America Gas Separation Membranes Sales Quantity by Application (2019-2024) & (K Units)

Table 98. North America Gas Separation Membranes Sales Quantity by Application (2025-2030) & (K Units)

Table 99. North America Gas Separation Membranes Sales Quantity by Country (2019-2024) & (K Units)

Table 100. North America Gas Separation Membranes Sales Quantity by Country (2025-2030) & (K Units)

Table 101. North America Gas Separation Membranes Consumption Value by Country (2019-2024) & (USD Million)

Table 102. North America Gas Separation Membranes Consumption Value by Country (2025-2030) & (USD Million)

Table 103. Europe Gas Separation Membranes Sales Quantity by Type (2019-2024) &

(K Units)

Table 104. Europe Gas Separation Membranes Sales Quantity by Type (2025-2030) & (K Units)

Table 105. Europe Gas Separation Membranes Sales Quantity by Application (2019-2024) & (K Units)

Table 106. Europe Gas Separation Membranes Sales Quantity by Application (2025-2030) & (K Units)

Table 107. Europe Gas Separation Membranes Sales Quantity by Country (2019-2024) & (K Units)

Table 108. Europe Gas Separation Membranes Sales Quantity by Country (2025-2030) & (K Units)

Table 109. Europe Gas Separation Membranes Consumption Value by Country (2019-2024) & (USD Million)

Table 110. Europe Gas Separation Membranes Consumption Value by Country (2025-2030) & (USD Million)

Table 111. Asia-Pacific Gas Separation Membranes Sales Quantity by Type (2019-2024) & (K Units)

Table 112. Asia-Pacific Gas Separation Membranes Sales Quantity by Type (2025-2030) & (K Units)

Table 113. Asia-Pacific Gas Separation Membranes Sales Quantity by Application (2019-2024) & (K Units)

Table 114. Asia-Pacific Gas Separation Membranes Sales Quantity by Application (2025-2030) & (K Units)

Table 115. Asia-Pacific Gas Separation Membranes Sales Quantity by Region (2019-2024) & (K Units)

Table 116. Asia-Pacific Gas Separation Membranes Sales Quantity by Region (2025-2030) & (K Units)

Table 117. Asia-Pacific Gas Separation Membranes Consumption Value by Region (2019-2024) & (USD Million)

Table 118. Asia-Pacific Gas Separation Membranes Consumption Value by Region (2025-2030) & (USD Million)

Table 119. South America Gas Separation Membranes Sales Quantity by Type (2019-2024) & (K Units)

Table 120. South America Gas Separation Membranes Sales Quantity by Type (2025-2030) & (K Units)

Table 121. South America Gas Separation Membranes Sales Quantity by Application (2019-2024) & (K Units)

Table 122. South America Gas Separation Membranes Sales Quantity by Application (2025-2030) & (K Units)

Table 123. South America Gas Separation Membranes Sales Quantity by Country (2019-2024) & (K Units)

Table 124. South America Gas Separation Membranes Sales Quantity by Country (2025-2030) & (K Units)

Table 125. South America Gas Separation Membranes Consumption Value by Country (2019-2024) & (USD Million)

Table 126. South America Gas Separation Membranes Consumption Value by Country (2025-2030) & (USD Million)

Table 127. Middle East & Africa Gas Separation Membranes Sales Quantity by Type (2019-2024) & (K Units)

Table 128. Middle East & Africa Gas Separation Membranes Sales Quantity by Type (2025-2030) & (K Units)

Table 129. Middle East & Africa Gas Separation Membranes Sales Quantity by Application (2019-2024) & (K Units)

Table 130. Middle East & Africa Gas Separation Membranes Sales Quantity by Application (2025-2030) & (K Units)

Table 131. Middle East & Africa Gas Separation Membranes Sales Quantity by Region (2019-2024) & (K Units)

Table 132. Middle East & Africa Gas Separation Membranes Sales Quantity by Region (2025-2030) & (K Units)

Table 133. Middle East & Africa Gas Separation Membranes Consumption Value by Region (2019-2024) & (USD Million)

Table 134. Middle East & Africa Gas Separation Membranes Consumption Value by Region (2025-2030) & (USD Million)

Table 135. Gas Separation Membranes Raw Material

Table 136. Key Manufacturers of Gas Separation Membranes Raw Materials

Table 137. Gas Separation Membranes Typical Distributors

Table 138. Gas Separation Membranes Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Gas Separation Membranes Picture

Figure 2. Global Gas Separation Membranes Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Gas Separation Membranes Consumption Value Market Share by Type in 2023

Figure 4. Hollow Fiber Examples

Figure 5. Spiral Wound Examples

Figure 6. Others Examples

Figure 7. Global Gas Separation Membranes Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 8. Global Gas Separation Membranes Consumption Value Market Share by Application in 2023

Figure 9. Isolation of Inert N₂ from Air Examples

Figure 10. H₂ Recovery Examples

Figure 11. CO₂ Removal from Natural Gas Examples

Figure 12. Vapor/Nitrogen Separation Examples

Figure 13. Others Examples

Figure 14. Global Gas Separation Membranes Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 15. Global Gas Separation Membranes Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 16. Global Gas Separation Membranes Sales Quantity (2019-2030) & (K Units)

Figure 17. Global Gas Separation Membranes Average Price (2019-2030) & (USD/Unit)

Figure 18. Global Gas Separation Membranes Sales Quantity Market Share by Manufacturer in 2023

Figure 19. Global Gas Separation Membranes Consumption Value Market Share by Manufacturer in 2023

Figure 20. Producer Shipments of Gas Separation Membranes by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 21. Top 3 Gas Separation Membranes Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Top 6 Gas Separation Membranes Manufacturer (Consumption Value) Market Share in 2023

Figure 23. Global Gas Separation Membranes Sales Quantity Market Share by Region (2019-2030)

Figure 24. Global Gas Separation Membranes Consumption Value Market Share by Region (2019-2030)

Figure 25. North America Gas Separation Membranes Consumption Value (2019-2030) & (USD Million)

Figure 26. Europe Gas Separation Membranes Consumption Value (2019-2030) & (USD Million)

Figure 27. Asia-Pacific Gas Separation Membranes Consumption Value (2019-2030) & (USD Million)

Figure 28. South America Gas Separation Membranes Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa Gas Separation Membranes Consumption Value (2019-2030) & (USD Million)

Figure 30. Global Gas Separation Membranes Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global Gas Separation Membranes Consumption Value Market Share by Type (2019-2030)

Figure 32. Global Gas Separation Membranes Average Price by Type (2019-2030) & (USD/Unit)

Figure 33. Global Gas Separation Membranes Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global Gas Separation Membranes Consumption Value Market Share by Application (2019-2030)

Figure 35. Global Gas Separation Membranes Average Price by Application (2019-2030) & (USD/Unit)

Figure 36. North America Gas Separation Membranes Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America Gas Separation Membranes Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America Gas Separation Membranes Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America Gas Separation Membranes Consumption Value Market Share by Country (2019-2030)

Figure 40. United States Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Canada Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Mexico Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Europe Gas Separation Membranes Sales Quantity Market Share by Type

(2019-2030)

Figure 44. Europe Gas Separation Membranes Sales Quantity Market Share by Application (2019-2030)

Figure 45. Europe Gas Separation Membranes Sales Quantity Market Share by Country (2019-2030)

Figure 46. Europe Gas Separation Membranes Consumption Value Market Share by Country (2019-2030)

Figure 47. Germany Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. France Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. United Kingdom Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Russia Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Italy Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Asia-Pacific Gas Separation Membranes Sales Quantity Market Share by Type (2019-2030)

Figure 53. Asia-Pacific Gas Separation Membranes Sales Quantity Market Share by Application (2019-2030)

Figure 54. Asia-Pacific Gas Separation Membranes Sales Quantity Market Share by Region (2019-2030)

Figure 55. Asia-Pacific Gas Separation Membranes Consumption Value Market Share by Region (2019-2030)

Figure 56. China Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Japan Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Korea Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. India Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Southeast Asia Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Australia Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. South America Gas Separation Membranes Sales Quantity Market Share by Type (2019-2030)

- Figure 63. South America Gas Separation Membranes Sales Quantity Market Share by Application (2019-2030)
- Figure 64. South America Gas Separation Membranes Sales Quantity Market Share by Country (2019-2030)
- Figure 65. South America Gas Separation Membranes Consumption Value Market Share by Country (2019-2030)
- Figure 66. Brazil Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 67. Argentina Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 68. Middle East & Africa Gas Separation Membranes Sales Quantity Market Share by Type (2019-2030)
- Figure 69. Middle East & Africa Gas Separation Membranes Sales Quantity Market Share by Application (2019-2030)
- Figure 70. Middle East & Africa Gas Separation Membranes Sales Quantity Market Share by Region (2019-2030)
- Figure 71. Middle East & Africa Gas Separation Membranes Consumption Value Market Share by Region (2019-2030)
- Figure 72. Turkey Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 73. Egypt Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 74. Saudi Arabia Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 75. South Africa Gas Separation Membranes Consumption Value and Growth Rate (2019-2030) & (USD Million)
- Figure 76. Gas Separation Membranes Market Drivers
- Figure 77. Gas Separation Membranes Market Restraints
- Figure 78. Gas Separation Membranes Market Trends
- Figure 79. Porters Five Forces Analysis
- Figure 80. Manufacturing Cost Structure Analysis of Gas Separation Membranes in 2023
- Figure 81. Manufacturing Process Analysis of Gas Separation Membranes
- Figure 82. Gas Separation Membranes Industrial Chain
- Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors
- Figure 84. Direct Channel Pros & Cons
- Figure 85. Indirect Channel Pros & Cons
- Figure 86. Methodology
- Figure 87. Research Process and Data Source

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