

Global CO2 Membrane Separators Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on CO2 Membrane Separators competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. CO2 Membrane Separators are specialized devices that use semi-permeable membranes to selectively separate carbon dioxide (CO₂) from gas mixtures. These separators are widely used in industries like natural gas purification, biogas upgrading, carbon capture and storage (CCS), and flue gas treatment. In 2024, global CO2 Membrane Separators production reached approximately 147.3 k units, with an average global market price of around US\$ 2500 USD per units. The production capacity for CO2 Membrane Separators in 2024 was approximately 150 k units. The typical gross profit margin for CO2 Membrane Separators is between 20% and 35%. CO2 membrane separators are primarily used to purify and capture carbon dioxide in various industrial processes. Their downstream applications span natural gas sweetening, biogas upgrading, enhanced oil recovery, and carbon capture and storage (CCS). The purified CO2 can be utilized in food and beverage carbonation, chemical synthesis, fire suppression systems, and greenhouse enrichment, creating a diverse range of end-user markets.

The global CO2 Membrane Separators market size was estimated at USD 368.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global CO2 Membrane Separators market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging

development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global CO₂ Membrane Separators market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the CO₂ Membrane Separators market.

Global CO₂ Membrane Separators Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Evonik
Air Liquide
Air Products
UBE Corporation
Linde Engineering

Generon IGS
Grasys
Airrane
MTR Industrial Separations
BORSIG
Toray
OOYOO Ltd.
Honeywell
NGK Insulators
Fujifilm
Tianbang

Market Segmentation (by Type)

Polymeric Membrane
Inorganic Membrane
Mixed Matrix Membrane

Market Segmentation (by Application)

Carbon Capture and Storage (CCS)
Natural Gas Processing
Biogas Upgrading
Hydrogen Production
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the CO2 Membrane Separators Market

Overview of the regional outlook of the CO2 Membrane Separators Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the CO2 Membrane Separators Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of CO₂ Membrane Separators, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your

marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of CO2 Membrane Separators

1.2 Key Market Segments

1.2.1 CO2 Membrane Separators Segment by Type

1.2.2 CO2 Membrane Separators Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 CO2 MEMBRANE SEPARATORS MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global CO2 Membrane Separators Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global CO2 Membrane Separators Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 CO2 MEMBRANE SEPARATORS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global CO2 Membrane Separators Product Life Cycle

3.3 Global CO2 Membrane Separators Sales by Manufacturers (2020-2025)

3.4 Global CO2 Membrane Separators Revenue Market Share by Manufacturers (2020-2025)

3.5 CO2 Membrane Separators Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global CO2 Membrane Separators Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 CO2 Membrane Separators Market Competitive Situation and Trends

3.8.1 CO2 Membrane Separators Market Concentration Rate

3.8.2 Global 5 and 10 Largest CO2 Membrane Separators Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 CO2 MEMBRANE SEPARATORS INDUSTRY CHAIN ANALYSIS

4.1 CO2 Membrane Separators Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF CO2 MEMBRANE SEPARATORS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global CO2 Membrane Separators Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to CO2 Membrane Separators Market

5.7 ESG Ratings of Leading Companies

6 CO2 MEMBRANE SEPARATORS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global CO2 Membrane Separators Sales Market Share by Type (2020-2025)

6.3 Global CO2 Membrane Separators Market Size by Type (2020-2025)

6.4 Global CO2 Membrane Separators Price by Type (2020-2025)

7 CO2 MEMBRANE SEPARATORS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global CO2 Membrane Separators Market Sales by Application (2020-2025)
- 7.3 Global CO2 Membrane Separators Market Size (M USD) by Application (2020-2025)
- 7.4 Global CO2 Membrane Separators Sales Growth Rate by Application (2020-2025)

8 CO2 MEMBRANE SEPARATORS MARKET SALES BY REGION

- 8.1 Global CO2 Membrane Separators Sales by Region
 - 8.1.1 Global CO2 Membrane Separators Sales by Region
 - 8.1.2 Global CO2 Membrane Separators Sales Market Share by Region
- 8.2 Global CO2 Membrane Separators Market Size by Region
 - 8.2.1 Global CO2 Membrane Separators Market Size by Region
 - 8.2.2 Global CO2 Membrane Separators Market Size by Region
- 8.3 North America
 - 8.3.1 North America CO2 Membrane Separators Sales by Country
 - 8.3.2 North America CO2 Membrane Separators Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe CO2 Membrane Separators Sales by Country
 - 8.4.2 Europe CO2 Membrane Separators Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific CO2 Membrane Separators Sales by Region
 - 8.5.2 Asia Pacific CO2 Membrane Separators Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America CO2 Membrane Separators Sales by Country

- 8.6.2 South America CO2 Membrane Separators Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa CO2 Membrane Separators Sales by Region
 - 8.7.2 Middle East and Africa CO2 Membrane Separators Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 CO2 MEMBRANE SEPARATORS MARKET PRODUCTION BY REGION

- 9.1 Global Production of CO2 Membrane Separators by Region(2020-2025)
- 9.2 Global CO2 Membrane Separators Revenue Market Share by Region (2020-2025)
- 9.3 Global CO2 Membrane Separators Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America CO2 Membrane Separators Production
 - 9.4.1 North America CO2 Membrane Separators Production Growth Rate (2020-2025)
 - 9.4.2 North America CO2 Membrane Separators Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe CO2 Membrane Separators Production
 - 9.5.1 Europe CO2 Membrane Separators Production Growth Rate (2020-2025)
 - 9.5.2 Europe CO2 Membrane Separators Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan CO2 Membrane Separators Production (2020-2025)
 - 9.6.1 Japan CO2 Membrane Separators Production Growth Rate (2020-2025)
 - 9.6.2 Japan CO2 Membrane Separators Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China CO2 Membrane Separators Production (2020-2025)
 - 9.7.1 China CO2 Membrane Separators Production Growth Rate (2020-2025)
 - 9.7.2 China CO2 Membrane Separators Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Evonik

- 10.1.1 Evonik Basic Information
- 10.1.2 Evonik CO2 Membrane Separators Product Overview
- 10.1.3 Evonik CO2 Membrane Separators Product Market Performance
- 10.1.4 Evonik Business Overview
- 10.1.5 Evonik SWOT Analysis
- 10.1.6 Evonik Recent Developments
- 10.2 Air Liquide
 - 10.2.1 Air Liquide Basic Information
 - 10.2.2 Air Liquide CO2 Membrane Separators Product Overview
 - 10.2.3 Air Liquide CO2 Membrane Separators Product Market Performance
 - 10.2.4 Air Liquide Business Overview
 - 10.2.5 Air Liquide SWOT Analysis
 - 10.2.6 Air Liquide Recent Developments
- 10.3 Air Products
 - 10.3.1 Air Products Basic Information
 - 10.3.2 Air Products CO2 Membrane Separators Product Overview
 - 10.3.3 Air Products CO2 Membrane Separators Product Market Performance
 - 10.3.4 Air Products Business Overview
 - 10.3.5 Air Products SWOT Analysis
 - 10.3.6 Air Products Recent Developments
- 10.4 UBE Corporation
 - 10.4.1 UBE Corporation Basic Information
 - 10.4.2 UBE Corporation CO2 Membrane Separators Product Overview
 - 10.4.3 UBE Corporation CO2 Membrane Separators Product Market Performance
 - 10.4.4 UBE Corporation Business Overview
 - 10.4.5 UBE Corporation Recent Developments
- 10.5 Linde Engineering
 - 10.5.1 Linde Engineering Basic Information
 - 10.5.2 Linde Engineering CO2 Membrane Separators Product Overview
 - 10.5.3 Linde Engineering CO2 Membrane Separators Product Market Performance
 - 10.5.4 Linde Engineering Business Overview
 - 10.5.5 Linde Engineering Recent Developments
- 10.6 Generon IGS
 - 10.6.1 Generon IGS Basic Information
 - 10.6.2 Generon IGS CO2 Membrane Separators Product Overview
 - 10.6.3 Generon IGS CO2 Membrane Separators Product Market Performance
 - 10.6.4 Generon IGS Business Overview
 - 10.6.5 Generon IGS Recent Developments
- 10.7 Grasys

- 10.7.1 Grasy's Basic Information
- 10.7.2 Grasy's CO2 Membrane Separators Product Overview
- 10.7.3 Grasy's CO2 Membrane Separators Product Market Performance
- 10.7.4 Grasy's Business Overview
- 10.7.5 Grasy's Recent Developments
- 10.8 Airrane
 - 10.8.1 Airrane Basic Information
 - 10.8.2 Airrane CO2 Membrane Separators Product Overview
 - 10.8.3 Airrane CO2 Membrane Separators Product Market Performance
 - 10.8.4 Airrane Business Overview
 - 10.8.5 Airrane Recent Developments
- 10.9 MTR Industrial Separations
 - 10.9.1 MTR Industrial Separations Basic Information
 - 10.9.2 MTR Industrial Separations CO2 Membrane Separators Product Overview
 - 10.9.3 MTR Industrial Separations CO2 Membrane Separators Product Market Performance
 - 10.9.4 MTR Industrial Separations Business Overview
 - 10.9.5 MTR Industrial Separations Recent Developments
- 10.10 BORSIG
 - 10.10.1 BORSIG Basic Information
 - 10.10.2 BORSIG CO2 Membrane Separators Product Overview
 - 10.10.3 BORSIG CO2 Membrane Separators Product Market Performance
 - 10.10.4 BORSIG Business Overview
 - 10.10.5 BORSIG Recent Developments
- 10.11 Toray
 - 10.11.1 Toray Basic Information
 - 10.11.2 Toray CO2 Membrane Separators Product Overview
 - 10.11.3 Toray CO2 Membrane Separators Product Market Performance
 - 10.11.4 Toray Business Overview
 - 10.11.5 Toray Recent Developments
- 10.12 OOOYOO Ltd.
 - 10.12.1 OOOYOO Ltd. Basic Information
 - 10.12.2 OOOYOO Ltd. CO2 Membrane Separators Product Overview
 - 10.12.3 OOOYOO Ltd. CO2 Membrane Separators Product Market Performance
 - 10.12.4 OOOYOO Ltd. Business Overview
 - 10.12.5 OOOYOO Ltd. Recent Developments
- 10.13 Honeywell
 - 10.13.1 Honeywell Basic Information
 - 10.13.2 Honeywell CO2 Membrane Separators Product Overview

- 10.13.3 Honeywell CO2 Membrane Separators Product Market Performance
- 10.13.4 Honeywell Business Overview
- 10.13.5 Honeywell Recent Developments
- 10.14 NGK Insulators
 - 10.14.1 NGK Insulators Basic Information
 - 10.14.2 NGK Insulators CO2 Membrane Separators Product Overview
 - 10.14.3 NGK Insulators CO2 Membrane Separators Product Market Performance
 - 10.14.4 NGK Insulators Business Overview
 - 10.14.5 NGK Insulators Recent Developments
- 10.15 Fujifilm
 - 10.15.1 Fujifilm Basic Information
 - 10.15.2 Fujifilm CO2 Membrane Separators Product Overview
 - 10.15.3 Fujifilm CO2 Membrane Separators Product Market Performance
 - 10.15.4 Fujifilm Business Overview
 - 10.15.5 Fujifilm Recent Developments
- 10.16 Tianbang
 - 10.16.1 Tianbang Basic Information
 - 10.16.2 Tianbang CO2 Membrane Separators Product Overview
 - 10.16.3 Tianbang CO2 Membrane Separators Product Market Performance
 - 10.16.4 Tianbang Business Overview
 - 10.16.5 Tianbang Recent Developments

11 CO2 MEMBRANE SEPARATORS MARKET FORECAST BY REGION

- 11.1 Global CO2 Membrane Separators Market Size Forecast
- 11.2 Global CO2 Membrane Separators Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe CO2 Membrane Separators Market Size Forecast by Country
 - 11.2.3 Asia Pacific CO2 Membrane Separators Market Size Forecast by Region
 - 11.2.4 South America CO2 Membrane Separators Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of CO2 Membrane Separators by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global CO2 Membrane Separators Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of CO2 Membrane Separators by Type (2026-2035)
 - 12.1.2 Global CO2 Membrane Separators Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of CO2 Membrane Separators by Type (2026-2035)

12.2 Global CO2 Membrane Separators Market Forecast by Application (2026-2035)

12.2.1 Global CO2 Membrane Separators Sales (K Units) Forecast by Application

12.2.2 Global CO2 Membrane Separators Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global CO2 Membrane Separators Market Size by Type (M USD)

Table 4. Global CO2 Membrane Separators Market Size by Application

Table 5. CO2 Membrane Separators Market Size Comparison by Region (M USD)

Table 6. Global CO2 Membrane Separators Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global CO2 Membrane Separators Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global CO2 Membrane Separators Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global CO2 Membrane Separators Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in CO2 Membrane Separators as of 2025)

Table 11. Global Market CO2 Membrane Separators Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global CO2 Membrane Separators Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. CO2 Membrane Separators Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global CO2 Membrane Separators Sales by Type (K Units)

Table 27. Global CO2 Membrane Separators Market Size by Type (M USD)

- Table 28. Global CO2 Membrane Separators Sales (K Units) by Type (2020-2025)
- Table 29. Global CO2 Membrane Separators Sales Market Share by Type (2020-2025)
- Table 30. Global CO2 Membrane Separators Market Size (M USD) by Type (2020-2025)
- Table 31. Global CO2 Membrane Separators Market Share by Type (2020-2025)
- Table 32. Global CO2 Membrane Separators Price (USD/Unit) by Type (2020-2025)
- Table 33. Global CO2 Membrane Separators Sales (K Units) by Application
- Table 34. Global CO2 Membrane Separators Market Size by Application
- Table 35. Global CO2 Membrane Separators Sales by Application (2020-2025) & (K Units)
- Table 36. Global CO2 Membrane Separators Sales Market Share by Application (2020-2025)
- Table 37. Global CO2 Membrane Separators Market Size by Application (2020-2025) & (M USD)
- Table 38. Global CO2 Membrane Separators Market Share by Application (2020-2025)
- Table 39. Global CO2 Membrane Separators Sales Growth Rate by Application (2020-2025)
- Table 40. Global CO2 Membrane Separators Sales by Region (2020-2025) & (K Units)
- Table 41. Global CO2 Membrane Separators Sales Market Share by Region (2020-2025)
- Table 42. Global CO2 Membrane Separators Market Size by Region (2020-2025) & (M USD)
- Table 43. Global CO2 Membrane Separators Market Size by Region (2020-2025)
- Table 44. North America CO2 Membrane Separators Sales by Country (2020-2025) & (K Units)
- Table 45. North America CO2 Membrane Separators Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe CO2 Membrane Separators Sales by Country (2020-2025) & (K Units)
- Table 47. Europe CO2 Membrane Separators Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific CO2 Membrane Separators Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific CO2 Membrane Separators Market Size by Region (2020-2025) & (M USD)
- Table 50. South America CO2 Membrane Separators Sales by Country (2020-2025) & (K Units)
- Table 51. South America CO2 Membrane Separators Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa CO2 Membrane Separators Sales by Region

(2020-2025) & (K Units)

Table 53. Middle East and Africa CO2 Membrane Separators Market Size by Region (2020-2025) & (M USD)

Table 54. Global CO2 Membrane Separators Production (K Units) by Region(2020-2025)

Table 55. Global CO2 Membrane Separators Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global CO2 Membrane Separators Revenue Market Share by Region (2020-2025)

Table 57. Global CO2 Membrane Separators Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America CO2 Membrane Separators Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe CO2 Membrane Separators Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan CO2 Membrane Separators Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China CO2 Membrane Separators Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Evonik Basic Information

Table 63. Evonik CO2 Membrane Separators Product Overview

Table 64. Evonik CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Evonik Business Overview

Table 66. Evonik SWOT Analysis

Table 67. Evonik Recent Developments

Table 68. Air Liquide Basic Information

Table 69. Air Liquide CO2 Membrane Separators Product Overview

Table 70. Air Liquide CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Air Liquide Business Overview

Table 72. Air Liquide SWOT Analysis

Table 73. Air Liquide Recent Developments

Table 74. Air Products Basic Information

Table 75. Air Products CO2 Membrane Separators Product Overview

Table 76. Air Products CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Air Products Business Overview

Table 78. Air Products SWOT Analysis

- Table 79. Air Products Recent Developments
- Table 80. UBE Corporation Basic Information
- Table 81. UBE Corporation CO2 Membrane Separators Product Overview
- Table 82. UBE Corporation CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. UBE Corporation Business Overview
- Table 84. UBE Corporation Recent Developments
- Table 85. Linde Engineering Basic Information
- Table 86. Linde Engineering CO2 Membrane Separators Product Overview
- Table 87. Linde Engineering CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Linde Engineering Business Overview
- Table 89. Linde Engineering Recent Developments
- Table 90. Generon IGS Basic Information
- Table 91. Generon IGS CO2 Membrane Separators Product Overview
- Table 92. Generon IGS CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Generon IGS Business Overview
- Table 94. Generon IGS Recent Developments
- Table 95. Grasys Basic Information
- Table 96. Grasys CO2 Membrane Separators Product Overview
- Table 97. Grasys CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Grasys Business Overview
- Table 99. Grasys Recent Developments
- Table 100. Airrane Basic Information
- Table 101. Airrane CO2 Membrane Separators Product Overview
- Table 102. Airrane CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Airrane Business Overview
- Table 104. Airrane Recent Developments
- Table 105. MTR Industrial Separations Basic Information
- Table 106. MTR Industrial Separations CO2 Membrane Separators Product Overview
- Table 107. MTR Industrial Separations CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. MTR Industrial Separations Business Overview
- Table 109. MTR Industrial Separations Recent Developments
- Table 110. BORSIG Basic Information
- Table 111. BORSIG CO2 Membrane Separators Product Overview

- Table 112. BORSIG CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. BORSIG Business Overview
- Table 114. BORSIG Recent Developments
- Table 115. Toray Basic Information
- Table 116. Toray CO2 Membrane Separators Product Overview
- Table 117. Toray CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Toray Business Overview
- Table 119. Toray Recent Developments
- Table 120. OOOO Ltd. Basic Information
- Table 121. OOOO Ltd. CO2 Membrane Separators Product Overview
- Table 122. OOOO Ltd. CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. OOOO Ltd. Business Overview
- Table 124. OOOO Ltd. Recent Developments
- Table 125. Honeywell Basic Information
- Table 126. Honeywell CO2 Membrane Separators Product Overview
- Table 127. Honeywell CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Honeywell Business Overview
- Table 129. Honeywell Recent Developments
- Table 130. NGK Insulators Basic Information
- Table 131. NGK Insulators CO2 Membrane Separators Product Overview
- Table 132. NGK Insulators CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. NGK Insulators Business Overview
- Table 134. NGK Insulators Recent Developments
- Table 135. Fujifilm Basic Information
- Table 136. Fujifilm CO2 Membrane Separators Product Overview
- Table 137. Fujifilm CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Fujifilm Business Overview
- Table 139. Fujifilm Recent Developments
- Table 140. Tianbang Basic Information
- Table 141. Tianbang CO2 Membrane Separators Product Overview
- Table 142. Tianbang CO2 Membrane Separators Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. Tianbang Business Overview

Table 144. Tianbang Recent Developments

Table 145. Global CO2 Membrane Separators Sales Forecast by Region (2026-2035) & (K Units)

Table 146. Global CO2 Membrane Separators Market Size Forecast by Region (2026-2035) & (M USD)

Table 147. North America CO2 Membrane Separators Sales Forecast by Country (2026-2035) & (K Units)

Table 148. North America CO2 Membrane Separators Market Size Forecast by Country (2026-2035) & (M USD)

Table 149. Europe CO2 Membrane Separators Sales Forecast by Country (2026-2035) & (K Units)

Table 150. Europe CO2 Membrane Separators Market Size Forecast by Country (2026-2035) & (M USD)

Table 151. Asia Pacific CO2 Membrane Separators Sales Forecast by Region (2026-2035) & (K Units)

Table 152. Asia Pacific CO2 Membrane Separators Market Size Forecast by Region (2026-2035) & (M USD)

Table 153. South America CO2 Membrane Separators Sales Forecast by Country (2026-2035) & (K Units)

Table 154. South America CO2 Membrane Separators Market Size Forecast by Country (2026-2035) & (M USD)

Table 155. Middle East and Africa CO2 Membrane Separators Sales Forecast by Country (2026-2035) & (Units)

Table 156. Middle East and Africa CO2 Membrane Separators Market Size Forecast by Country (2026-2035) & (M USD)

Table 157. Global CO2 Membrane Separators Sales Forecast by Type (2026-2035) & (K Units)

Table 158. Global CO2 Membrane Separators Market Size Forecast by Type (2026-2035) & (M USD)

Table 159. Global CO2 Membrane Separators Price Forecast by Type (2026-2035) & (USD/Unit)

Table 160. Global CO2 Membrane Separators Sales (K Units) Forecast by Application (2026-2035)

Table 161. Global CO2 Membrane Separators Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of CO2 Membrane Separators
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global CO2 Membrane Separators Market Size (M USD), 2025-2035
- Figure 5. Global CO2 Membrane Separators Market Size (M USD) (2020-2035)
- Figure 6. Global CO2 Membrane Separators Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. CO2 Membrane Separators Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global CO2 Membrane Separators Product Life Cycle
- Figure 13. CO2 Membrane Separators Sales Share by Manufacturers in 2025
- Figure 14. Global CO2 Membrane Separators Revenue Share by Manufacturers in 2025
- Figure 15. CO2 Membrane Separators Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market CO2 Membrane Separators Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by CO2 Membrane Separators Revenue in 2025
- Figure 18. Industry Chain Map of CO2 Membrane Separators
- Figure 19. Global CO2 Membrane Separators Market PEST Analysis
- Figure 20. Global CO2 Membrane Separators Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global CO2 Membrane Separators Market Share by Type
- Figure 27. Sales Market Share of CO2 Membrane Separators by Type (2020-2025)
- Figure 28. Sales Market Share of CO2 Membrane Separators by Type in 2025
- Figure 29. Market Share of CO2 Membrane Separators by Type (2020-2025)
- Figure 30. Market Share of CO2 Membrane Separators by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global CO2 Membrane Separators Market Share by Application
- Figure 33. Global CO2 Membrane Separators Sales Market Share by Application (2020-2025)
- Figure 34. Global CO2 Membrane Separators Sales Market Share by Application in 2025
- Figure 35. Global CO2 Membrane Separators Market Share by Application (2020-2025)
- Figure 36. Global CO2 Membrane Separators Market Share by Application in 2025
- Figure 37. Global CO2 Membrane Separators Sales Growth Rate by Application (2020-2025)
- Figure 38. Global CO2 Membrane Separators Sales Market Share by Region (2020-2025)
- Figure 39. Global CO2 Membrane Separators Market Size by Region (2020-2025)
- Figure 40. North America CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America CO2 Membrane Separators Sales Market Share by Country in 2024
- Figure 43. North America CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America CO2 Membrane Separators Market Size by Country in 2024
- Figure 45. U.S. CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada CO2 Membrane Separators Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada CO2 Membrane Separators Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico CO2 Membrane Separators Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico CO2 Membrane Separators Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe CO2 Membrane Separators Sales Market Share by Country in 2024
- Figure 53. Europe CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe CO2 Membrane Separators Market Size by Country in 2024

Figure 55. Germany CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific CO2 Membrane Separators Sales and Growth Rate (K Units)

Figure 66. Asia Pacific CO2 Membrane Separators Sales Market Share by Region in 2024

Figure 67. Asia Pacific CO2 Membrane Separators Market Size by Region in 2024

Figure 68. China CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India CO2 Membrane Separators Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 76. Southeast Asia CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America CO2 Membrane Separators Sales and Growth Rate (K Units)

Figure 79. South America CO2 Membrane Separators Sales Market Share by Country in 2024

Figure 80. South America CO2 Membrane Separators Market Size and Growth Rate (M USD)

Figure 81. South America CO2 Membrane Separators Market Size by Country in 2024

Figure 82. Brazil CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa CO2 Membrane Separators Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa CO2 Membrane Separators Sales Market Share by Region in 2024

Figure 90. Middle East and Africa CO2 Membrane Separators Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa CO2 Membrane Separators Market Size by Region in 2024

Figure 92. Saudi Arabia CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa CO2 Membrane Separators Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa CO2 Membrane Separators Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global CO2 Membrane Separators Production Market Share by Region (2020-2025)

Figure 103. North America CO2 Membrane Separators Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe CO2 Membrane Separators Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan CO2 Membrane Separators Production (K Units) Growth Rate (2020-2025)

Figure 106. China CO2 Membrane Separators Production (K Units) Growth Rate (2020-2025)

Figure 107. Global CO2 Membrane Separators Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global CO2 Membrane Separators Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global CO2 Membrane Separators Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global CO2 Membrane Separators Market Share Forecast by Type (2026-2035)

Figure 111. Global CO2 Membrane Separators Sales Forecast by Application (2026-2035)

Figure 112. Global CO2 Membrane Separators Market Share Forecast by Application (2026-2035)

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