

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

<https://marketpublishers.com/r/G003C3B60558EN.html>

Date: March 2026

Pages: 166

Price: US\$ 3,200.00 (Single User License)

ID: G003C3B60558EN

Abstracts

A CO₂ capture separation membrane is a specialized membrane technology designed to selectively separate carbon dioxide (CO₂) from gas mixtures—most commonly from industrial emissions or natural gas streams. These membranes are made from polymeric, inorganic, or hybrid materials that allow CO₂ molecules to pass through faster than other gases like nitrogen (N₂) or methane (CH₄), based on differences in molecular size, solubility, or diffusivity.

The global CO₂ Capture Separation Membrane market size was estimated at USD 428.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global CO₂ Capture Separation Membrane 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 Capture Separation Membrane 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 Capture Separation Membrane market.

Global CO2 Capture Separation Membrane 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

Grasys

Airrane

Generon IGS

DMT International

MTR

Fujifilm

Toray

BORSIG

SLB

Sumitomo Chemical

Honeywell

NGK Insulators
Tianbang

Market Segmentation (by Type)

Polymeric Membrane
Dense Metallic Membrane
Porous Inorganic Membrane

Market Segmentation (by Application)

Carbon Capture and Storage (CCS)
Natural Gas Processing
Biogas Upgrading
Chemical
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 Capture Separation Membrane Market
Overview of the regional outlook of the CO2 Capture Separation Membrane Market:

Customization of the Report

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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 Capture Separation Membrane 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 Capture Separation Membrane, 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

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of CO₂ Capture Separation Membrane

1.2 Key Market Segments

1.2.1 CO₂ Capture Separation Membrane Segment by Type

1.2.2 CO₂ Capture Separation Membrane 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 CAPTURE SEPARATION MEMBRANE MARKET OVERVIEW

2.1 Global Market Overview

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

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

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 CO₂ CAPTURE SEPARATION MEMBRANE MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global CO₂ Capture Separation Membrane Product Life Cycle

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

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

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

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

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

3.8 CO₂ Capture Separation Membrane Market Competitive Situation and Trends

- 3.8.1 CO2 Capture Separation Membrane Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest CO2 Capture Separation Membrane Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 CO2 CAPTURE SEPARATION MEMBRANE INDUSTRY CHAIN ANALYSIS

- 4.1 CO2 Capture Separation Membrane 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 CAPTURE SEPARATION MEMBRANE 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 Capture Separation Membrane 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 Capture Separation Membrane Market
- 5.7 ESG Ratings of Leading Companies

6 CO2 CAPTURE SEPARATION MEMBRANE MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global CO2 Capture Separation Membrane Sales Market Share by Type

(2020-2025)

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

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

7 CO2 CAPTURE SEPARATION MEMBRANE MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global CO2 Capture Separation Membrane Market Sales by Application
(2020-2025)

7.3 Global CO2 Capture Separation Membrane Market Size (M USD) by Application
(2020-2025)

7.4 Global CO2 Capture Separation Membrane Sales Growth Rate by Application
(2020-2025)

8 CO2 CAPTURE SEPARATION MEMBRANE MARKET SALES BY REGION

8.1 Global CO2 Capture Separation Membrane Sales by Region

8.1.1 Global CO2 Capture Separation Membrane Sales by Region

8.1.2 Global CO2 Capture Separation Membrane Sales Market Share by Region

8.2 Global CO2 Capture Separation Membrane Market Size by Region

8.2.1 Global CO2 Capture Separation Membrane Market Size by Region

8.2.2 Global CO2 Capture Separation Membrane Market Size by Region

8.3 North America

8.3.1 North America CO2 Capture Separation Membrane Sales by Country

8.3.2 North America CO2 Capture Separation Membrane 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 Capture Separation Membrane Sales by Country

8.4.2 Europe CO2 Capture Separation Membrane 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 Capture Separation Membrane Sales by Region

- 8.5.2 Asia Pacific CO2 Capture Separation Membrane 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 Capture Separation Membrane Sales by Country
 - 8.6.2 South America CO2 Capture Separation Membrane 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 Capture Separation Membrane Sales by Region
 - 8.7.2 Middle East and Africa CO2 Capture Separation Membrane 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 CAPTURE SEPARATION MEMBRANE MARKET PRODUCTION BY REGION

- 9.1 Global Production of CO2 Capture Separation Membrane by Region(2020-2025)
- 9.2 Global CO2 Capture Separation Membrane Revenue Market Share by Region (2020-2025)
- 9.3 Global CO2 Capture Separation Membrane Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America CO2 Capture Separation Membrane Production
 - 9.4.1 North America CO2 Capture Separation Membrane Production Growth Rate (2020-2025)
 - 9.4.2 North America CO2 Capture Separation Membrane Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe CO2 Capture Separation Membrane Production
 - 9.5.1 Europe CO2 Capture Separation Membrane Production Growth Rate (2020-2025)
 - 9.5.2 Europe CO2 Capture Separation Membrane Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan CO2 Capture Separation Membrane Production (2020-2025)

9.6.1 Japan CO2 Capture Separation Membrane Production Growth Rate (2020-2025)

9.6.2 Japan CO2 Capture Separation Membrane Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China CO2 Capture Separation Membrane Production (2020-2025)

9.7.1 China CO2 Capture Separation Membrane Production Growth Rate (2020-2025)

9.7.2 China CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview

10.1.3 Evonik CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview

10.2.3 Air Liquide CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview

10.3.3 Air Products CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview

10.4.3 UBE Corporation CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview

10.5.3 Linde Engineering CO2 Capture Separation Membrane Product Market

Performance

10.5.4 Linde Engineering Business Overview

10.5.5 Linde Engineering Recent Developments

10.6 Grasys

10.6.1 Grasys Basic Information

10.6.2 Grasys CO2 Capture Separation Membrane Product Overview

10.6.3 Grasys CO2 Capture Separation Membrane Product Market Performance

10.6.4 Grasys Business Overview

10.6.5 Grasys Recent Developments

10.7 Airrane

10.7.1 Airrane Basic Information

10.7.2 Airrane CO2 Capture Separation Membrane Product Overview

10.7.3 Airrane CO2 Capture Separation Membrane Product Market Performance

10.7.4 Airrane Business Overview

10.7.5 Airrane Recent Developments

10.8 Generon IGS

10.8.1 Generon IGS Basic Information

10.8.2 Generon IGS CO2 Capture Separation Membrane Product Overview

10.8.3 Generon IGS CO2 Capture Separation Membrane Product Market Performance

10.8.4 Generon IGS Business Overview

10.8.5 Generon IGS Recent Developments

10.9 DMT International

10.9.1 DMT International Basic Information

10.9.2 DMT International CO2 Capture Separation Membrane Product Overview

10.9.3 DMT International CO2 Capture Separation Membrane Product Market

Performance

10.9.4 DMT International Business Overview

10.9.5 DMT International Recent Developments

10.10 MTR

10.10.1 MTR Basic Information

10.10.2 MTR CO2 Capture Separation Membrane Product Overview

10.10.3 MTR CO2 Capture Separation Membrane Product Market Performance

10.10.4 MTR Business Overview

10.10.5 MTR Recent Developments

10.11 Fujifilm

- 10.11.1 Fujifilm Basic Information
- 10.11.2 Fujifilm CO2 Capture Separation Membrane Product Overview
- 10.11.3 Fujifilm CO2 Capture Separation Membrane Product Market Performance
- 10.11.4 Fujifilm Business Overview
- 10.11.5 Fujifilm Recent Developments
- 10.12 Toray
 - 10.12.1 Toray Basic Information
 - 10.12.2 Toray CO2 Capture Separation Membrane Product Overview
 - 10.12.3 Toray CO2 Capture Separation Membrane Product Market Performance
 - 10.12.4 Toray Business Overview
 - 10.12.5 Toray Recent Developments
- 10.13 BORSIG
 - 10.13.1 BORSIG Basic Information
 - 10.13.2 BORSIG CO2 Capture Separation Membrane Product Overview
 - 10.13.3 BORSIG CO2 Capture Separation Membrane Product Market Performance
 - 10.13.4 BORSIG Business Overview
 - 10.13.5 BORSIG Recent Developments
- 10.14 SLB
 - 10.14.1 SLB Basic Information
 - 10.14.2 SLB CO2 Capture Separation Membrane Product Overview
 - 10.14.3 SLB CO2 Capture Separation Membrane Product Market Performance
 - 10.14.4 SLB Business Overview
 - 10.14.5 SLB Recent Developments
- 10.15 Sumitomo Chemical
 - 10.15.1 Sumitomo Chemical Basic Information
 - 10.15.2 Sumitomo Chemical CO2 Capture Separation Membrane Product Overview
 - 10.15.3 Sumitomo Chemical CO2 Capture Separation Membrane Product Market Performance
 - 10.15.4 Sumitomo Chemical Business Overview
 - 10.15.5 Sumitomo Chemical Recent Developments
- 10.16 Honeywell
 - 10.16.1 Honeywell Basic Information
 - 10.16.2 Honeywell CO2 Capture Separation Membrane Product Overview
 - 10.16.3 Honeywell CO2 Capture Separation Membrane Product Market Performance
 - 10.16.4 Honeywell Business Overview
 - 10.16.5 Honeywell Recent Developments
- 10.17 NGK Insulators
 - 10.17.1 NGK Insulators Basic Information
 - 10.17.2 NGK Insulators CO2 Capture Separation Membrane Product Overview

10.17.3 NGK Insulators CO2 Capture Separation Membrane Product Market Performance

10.17.4 NGK Insulators Business Overview

10.17.5 NGK Insulators Recent Developments

10.18 Tianbang

10.18.1 Tianbang Basic Information

10.18.2 Tianbang CO2 Capture Separation Membrane Product Overview

10.18.3 Tianbang CO2 Capture Separation Membrane Product Market Performance

10.18.4 Tianbang Business Overview

10.18.5 Tianbang Recent Developments

11 CO2 CAPTURE SEPARATION MEMBRANE MARKET FORECAST BY REGION

11.1 Global CO2 Capture Separation Membrane Market Size Forecast

11.2 Global CO2 Capture Separation Membrane Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe CO2 Capture Separation Membrane Market Size Forecast by Country

11.2.3 Asia Pacific CO2 Capture Separation Membrane Market Size Forecast by Region

11.2.4 South America CO2 Capture Separation Membrane Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of CO2 Capture Separation Membrane by Country

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

12.1 Global CO2 Capture Separation Membrane Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of CO2 Capture Separation Membrane by Type (2026-2035)

12.1.2 Global CO2 Capture Separation Membrane Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of CO2 Capture Separation Membrane by Type (2026-2035)

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

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

12.2.2 Global CO2 Capture Separation Membrane 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 Capture Separation Membrane Market Size by Type (M USD)

Table 4. Global CO2 Capture Separation Membrane Market Size by Application

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

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

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

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

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

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

Table 11. Global Market CO2 Capture Separation Membrane 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 Capture Separation Membrane 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 Capture Separation Membrane 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 Capture Separation Membrane Sales by Type (K Units)

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

Table 28. Global CO2 Capture Separation Membrane Sales (K Units) by Type (2020-2025)

Table 29. Global CO2 Capture Separation Membrane Sales Market Share by Type (2020-2025)

Table 30. Global CO2 Capture Separation Membrane Market Size (M USD) by Type (2020-2025)

Table 31. Global CO2 Capture Separation Membrane Market Share by Type (2020-2025)

Table 32. Global CO2 Capture Separation Membrane Price (USD/Unit) by Type (2020-2025)

Table 33. Global CO2 Capture Separation Membrane Sales (K Units) by Application

Table 34. Global CO2 Capture Separation Membrane Market Size by Application

Table 35. Global CO2 Capture Separation Membrane Sales by Application (2020-2025) & (K Units)

Table 36. Global CO2 Capture Separation Membrane Sales Market Share by Application (2020-2025)

Table 37. Global CO2 Capture Separation Membrane Market Size by Application (2020-2025) & (M USD)

Table 38. Global CO2 Capture Separation Membrane Market Share by Application (2020-2025)

Table 39. Global CO2 Capture Separation Membrane Sales Growth Rate by Application (2020-2025)

Table 40. Global CO2 Capture Separation Membrane Sales by Region (2020-2025) & (K Units)

Table 41. Global CO2 Capture Separation Membrane Sales Market Share by Region (2020-2025)

Table 42. Global CO2 Capture Separation Membrane Market Size by Region (2020-2025) & (M USD)

Table 43. Global CO2 Capture Separation Membrane Market Size by Region (2020-2025)

Table 44. North America CO2 Capture Separation Membrane Sales by Country (2020-2025) & (K Units)

Table 45. North America CO2 Capture Separation Membrane Market Size by Country (2020-2025) & (M USD)

Table 46. Europe CO2 Capture Separation Membrane Sales by Country (2020-2025) & (K Units)

Table 47. Europe CO2 Capture Separation Membrane Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific CO2 Capture Separation Membrane Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific CO2 Capture Separation Membrane Market Size by Region (2020-2025) & (M USD)
- Table 50. South America CO2 Capture Separation Membrane Sales by Country (2020-2025) & (K Units)
- Table 51. South America CO2 Capture Separation Membrane Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa CO2 Capture Separation Membrane Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa CO2 Capture Separation Membrane Market Size by Region (2020-2025) & (M USD)
- Table 54. Global CO2 Capture Separation Membrane Production (K Units) by Region(2020-2025)
- Table 55. Global CO2 Capture Separation Membrane Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global CO2 Capture Separation Membrane Revenue Market Share by Region (2020-2025)
- Table 57. Global CO2 Capture Separation Membrane Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America CO2 Capture Separation Membrane Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe CO2 Capture Separation Membrane Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan CO2 Capture Separation Membrane Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China CO2 Capture Separation Membrane Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Evonik Basic Information
- Table 63. Evonik CO2 Capture Separation Membrane Product Overview
- Table 64. Evonik CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview
- Table 70. Air Liquide CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview
- Table 76. Air Products CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview
- Table 82. UBE Corporation CO2 Capture Separation Membrane 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 Capture Separation Membrane Product Overview
- Table 87. Linde Engineering CO2 Capture Separation Membrane 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. Grasys Basic Information
- Table 91. Grasys CO2 Capture Separation Membrane Product Overview
- Table 92. Grasys CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Grasys Business Overview
- Table 94. Grasys Recent Developments
- Table 95. Airrane Basic Information
- Table 96. Airrane CO2 Capture Separation Membrane Product Overview
- Table 97. Airrane CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Airrane Business Overview
- Table 99. Airrane Recent Developments
- Table 100. Generon IGS Basic Information
- Table 101. Generon IGS CO2 Capture Separation Membrane Product Overview
- Table 102. Generon IGS CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Generon IGS Business Overview

- Table 104. Generon IGS Recent Developments
- Table 105. DMT International Basic Information
- Table 106. DMT International CO2 Capture Separation Membrane Product Overview
- Table 107. DMT International CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. DMT International Business Overview
- Table 109. DMT International Recent Developments
- Table 110. MTR Basic Information
- Table 111. MTR CO2 Capture Separation Membrane Product Overview
- Table 112. MTR CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. MTR Business Overview
- Table 114. MTR Recent Developments
- Table 115. Fujifilm Basic Information
- Table 116. Fujifilm CO2 Capture Separation Membrane Product Overview
- Table 117. Fujifilm CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Fujifilm Business Overview
- Table 119. Fujifilm Recent Developments
- Table 120. Toray Basic Information
- Table 121. Toray CO2 Capture Separation Membrane Product Overview
- Table 122. Toray CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Toray Business Overview
- Table 124. Toray Recent Developments
- Table 125. BORSIG Basic Information
- Table 126. BORSIG CO2 Capture Separation Membrane Product Overview
- Table 127. BORSIG CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. BORSIG Business Overview
- Table 129. BORSIG Recent Developments
- Table 130. SLB Basic Information
- Table 131. SLB CO2 Capture Separation Membrane Product Overview
- Table 132. SLB CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. SLB Business Overview
- Table 134. SLB Recent Developments
- Table 135. Sumitomo Chemical Basic Information
- Table 136. Sumitomo Chemical CO2 Capture Separation Membrane Product Overview

Table 137. Sumitomo Chemical CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 138. Sumitomo Chemical Business Overview

Table 139. Sumitomo Chemical Recent Developments

Table 140. Honeywell Basic Information

Table 141. Honeywell CO2 Capture Separation Membrane Product Overview

Table 142. Honeywell CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. Honeywell Business Overview

Table 144. Honeywell Recent Developments

Table 145. NGK Insulators Basic Information

Table 146. NGK Insulators CO2 Capture Separation Membrane Product Overview

Table 147. NGK Insulators CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. NGK Insulators Business Overview

Table 149. NGK Insulators Recent Developments

Table 150. Tianbang Basic Information

Table 151. Tianbang CO2 Capture Separation Membrane Product Overview

Table 152. Tianbang CO2 Capture Separation Membrane Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 153. Tianbang Business Overview

Table 154. Tianbang Recent Developments

Table 155. Global CO2 Capture Separation Membrane Sales Forecast by Region (2026-2035) & (K Units)

Table 156. Global CO2 Capture Separation Membrane Market Size Forecast by Region (2026-2035) & (M USD)

Table 157. North America CO2 Capture Separation Membrane Sales Forecast by Country (2026-2035) & (K Units)

Table 158. North America CO2 Capture Separation Membrane Market Size Forecast by Country (2026-2035) & (M USD)

Table 159. Europe CO2 Capture Separation Membrane Sales Forecast by Country (2026-2035) & (K Units)

Table 160. Europe CO2 Capture Separation Membrane Market Size Forecast by Country (2026-2035) & (M USD)

Table 161. Asia Pacific CO2 Capture Separation Membrane Sales Forecast by Region (2026-2035) & (K Units)

Table 162. Asia Pacific CO2 Capture Separation Membrane Market Size Forecast by Region (2026-2035) & (M USD)

Table 163. South America CO2 Capture Separation Membrane Sales Forecast by

Country (2026-2035) & (K Units)

Table 164. South America CO2 Capture Separation Membrane Market Size Forecast by Country (2026-2035) & (M USD)

Table 165. Middle East and Africa CO2 Capture Separation Membrane Sales Forecast by Country (2026-2035) & (Units)

Table 166. Middle East and Africa CO2 Capture Separation Membrane Market Size Forecast by Country (2026-2035) & (M USD)

Table 167. Global CO2 Capture Separation Membrane Sales Forecast by Type (2026-2035) & (K Units)

Table 168. Global CO2 Capture Separation Membrane Market Size Forecast by Type (2026-2035) & (M USD)

Table 169. Global CO2 Capture Separation Membrane Price Forecast by Type (2026-2035) & (USD/Unit)

Table 170. Global CO2 Capture Separation Membrane Sales (K Units) Forecast by Application (2026-2035)

Table 171. Global CO2 Capture Separation Membrane Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of CO2 Capture Separation Membrane
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global CO2 Capture Separation Membrane Market Size (M USD), 2025-2035
- Figure 5. Global CO2 Capture Separation Membrane Market Size (M USD) (2020-2035)
- Figure 6. Global CO2 Capture Separation Membrane 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 Capture Separation Membrane Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global CO2 Capture Separation Membrane Product Life Cycle
- Figure 13. CO2 Capture Separation Membrane Sales Share by Manufacturers in 2025
- Figure 14. Global CO2 Capture Separation Membrane Revenue Share by Manufacturers in 2025
- Figure 15. CO2 Capture Separation Membrane Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market CO2 Capture Separation Membrane Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by CO2 Capture Separation Membrane Revenue in 2025
- Figure 18. Industry Chain Map of CO2 Capture Separation Membrane
- Figure 19. Global CO2 Capture Separation Membrane Market PEST Analysis
- Figure 20. Global CO2 Capture Separation Membrane 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 Capture Separation Membrane Market Share by Type
- Figure 27. Sales Market Share of CO2 Capture Separation Membrane by Type (2020-2025)
- Figure 28. Sales Market Share of CO2 Capture Separation Membrane by Type in 2025
- Figure 29. Market Share of CO2 Capture Separation Membrane by Type (2020-2025)

- Figure 30. Market Share of CO2 Capture Separation Membrane by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global CO2 Capture Separation Membrane Market Share by Application
- Figure 33. Global CO2 Capture Separation Membrane Sales Market Share by Application (2020-2025)
- Figure 34. Global CO2 Capture Separation Membrane Sales Market Share by Application in 2025
- Figure 35. Global CO2 Capture Separation Membrane Market Share by Application (2020-2025)
- Figure 36. Global CO2 Capture Separation Membrane Market Share by Application in 2025
- Figure 37. Global CO2 Capture Separation Membrane Sales Growth Rate by Application (2020-2025)
- Figure 38. Global CO2 Capture Separation Membrane Sales Market Share by Region (2020-2025)
- Figure 39. Global CO2 Capture Separation Membrane Market Size by Region (2020-2025)
- Figure 40. North America CO2 Capture Separation Membrane Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America CO2 Capture Separation Membrane Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America CO2 Capture Separation Membrane Sales Market Share by Country in 2024
- Figure 43. North America CO2 Capture Separation Membrane Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America CO2 Capture Separation Membrane Market Size by Country in 2024
- Figure 45. U.S. CO2 Capture Separation Membrane Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. CO2 Capture Separation Membrane Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada CO2 Capture Separation Membrane Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada CO2 Capture Separation Membrane Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico CO2 Capture Separation Membrane Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico CO2 Capture Separation Membrane Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe CO2 Capture Separation Membrane Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe CO2 Capture Separation Membrane Sales Market Share by Country in 2024

Figure 53. Europe CO2 Capture Separation Membrane Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe CO2 Capture Separation Membrane Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 75. India CO2 Capture Separation Membrane Market Size and Growth Rate (2020-2025) & (M USD)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 90. Middle East and Africa CO2 Capture Separation Membrane Market Size and

Growth Rate (M USD)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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