

Global DLE Membrane Materials Market Growth 2026-2032

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Abstracts

The global DLE Membrane Materials market size is predicted to grow from US\$ 215 million in 2025 to US\$ 765 million in 2032; it is expected to grow at a CAGR of 19.4% from 2026 to 2032.

DLE membrane materials are functional membranes, membrane elements, and membrane stack materials used in direct lithium extraction processes to enable selective lithium-ion transport, valence or size-based separation, magnesium?lithium separation, brine concentration, and electrochemical conversion. The product's gross margin is approximately 42%.

Demand mainly comes from commercial lithium extraction projects using salt lake brines, geothermal brines, and oil and gas produced water resources. Compared with evaporation pond routes, DLE places greater emphasis on continuous operation, low land use, and high recovery rates. The use of membrane materials continues to increase in magnesium?lithium separation, low-grade brine concentration, water recovery, and electrochemical conversion steps.

The supply side is divided into two groups: one consists of established membrane and water treatment companies such as DuPont, Kovalus, and LiqTech, which provide nanofiltration, reverse osmosis, ceramic pretreatment, and concentration modules; the other consists of project-driven lithium-selective or electrically driven membrane technology companies such as EnergyX, Evove, ElectraLith, and alkaLi. Current competition depends not only on membrane flux and selectivity, but also on fouling resistance, high-salinity tolerance, membrane stack scale-up, and compatibility with adsorption, extraction, and crystallization units.

As DLE projects advance in North America, South America, and Europe, procurement of membrane elements and membrane stacks is increasing. In the short term, the market is highly affected by lithium prices and project financing pace, but in the long term, high Mg/Li ratios, low lithium concentrations, and water-scarce regions will continue to drive higher-selectivity membrane materials to replace some traditional concentration and impurity removal processes.

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

This Insight Report provides a comprehensive analysis of the global DLE Membrane Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on DLE Membrane Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global DLE Membrane Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for DLE Membrane Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global DLE Membrane Materials.

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

Segmentation by Type:

Lithium-Selective Membrane

Monovalent-Selective Ion-Exchange Membrane

Nanofiltration Membrane

Reverse Osmosis Concentration Membrane

Electrochemical Membrane

Pretreatment Ceramic Membrane

Other

Segmentation by Membrane Material Structure:

Polyamide Thin-Film Composite

Ion-Exchange Polymer

Bipolar Membrane

Inorganic Ceramic Composite

Nanochannel Composite

Coated Commercial Membrane

Other

Segmentation by Module Form:

Spiral-Wound Element

Flat-Sheet Stack

Plate-Frame Module

Hollow-Fiber Module

Tubular Ceramic Module

Custom Membrane Stack

Other

Segmentation by Process Position:

Primary Lithium Capture

Mg-Li Separation

Brine Concentration

Fouling Pretreatment

Electrolytic Conversion

Water Recovery

Other

Segmentation by Application:

Salt-Lake Brine DLE

Geothermal Brine DLE

Oilfield Produced-Water Lithium Recovery

Clay Leachate Lithium Purification

DLE Pilot and Demonstration Plants

Battery-Grade Lithium Hydroxide Refining

Brine Pretreatment for DLE

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DuPont

EnergyX

Evove

ElectraLith

Saltworks Technologies

Gradiant

alkaLi

Kovalus Separation Solutions

LiqTech

NORAM Electrolysis Systems

De Nora

Ionomr Innovations

SLB

Key Questions Addressed in this Report

What is the 10-year outlook for the global DLE Membrane Materials market?

What factors are driving DLE Membrane Materials market growth, globally and by region?

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

How do DLE Membrane Materials market opportunities vary by end market size?

How does DLE Membrane Materials break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global DLE Membrane Materials Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for DLE Membrane Materials by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for DLE Membrane Materials by Country/Region, 2021, 2025 & 2032
- 2.2 DLE Membrane Materials Segment by Type
 - 2.2.1 Lithium-Selective Membrane
 - 2.2.2 Monovalent-Selective Ion-Exchange Membrane
 - 2.2.3 Nanofiltration Membrane
 - 2.2.4 Reverse Osmosis Concentration Membrane
 - 2.2.5 Electrochemical Membrane
 - 2.2.6 Pretreatment Ceramic Membrane
 - 2.2.7 Other
 - 2.2.8 DLE Membrane Materials Sales by Type
 - 2.2.8.1 Global DLE Membrane Materials Sales Market Share by Type (2021-2026)
 - 2.2.8.2 Global DLE Membrane Materials Revenue and Market Share by Type (2021-2026)
 - 2.2.8.3 Global DLE Membrane Materials Sale Price by Type (2021-2026)
- 2.3 DLE Membrane Materials Segment by Membrane Material Structure
 - 2.3.1 Polyamide Thin-Film Composite
 - 2.3.2 Ion-Exchange Polymer
 - 2.3.3 Bipolar Membrane
 - 2.3.4 Inorganic Ceramic Composite

2.3.5 Nanochannel Composite

2.3.6 Coated Commercial Membrane

2.3.7 Other

2.3.8 DLE Membrane Materials Sales by Membrane Material Structure

2.3.8.1 Global DLE Membrane Materials Sales Market Share by Membrane Material Structure (2021-2026)

2.3.8.2 Global DLE Membrane Materials Revenue and Market Share by Membrane Material Structure (2021-2026)

2.3.8.3 Global DLE Membrane Materials Sale Price by Membrane Material Structure (2021-2026)

2.4 DLE Membrane Materials Segment by Module Form

2.4.1 Spiral-Wound Element

2.4.2 Flat-Sheet Stack

2.4.3 Plate-Frame Module

2.4.4 Hollow-Fiber Module

2.4.5 Tubular Ceramic Module

2.4.6 Custom Membrane Stack

2.4.7 Other

2.4.8 DLE Membrane Materials Sales by Module Form

2.4.8.1 Global DLE Membrane Materials Sales Market Share by Module Form (2021-2026)

2.4.8.2 Global DLE Membrane Materials Revenue and Market Share by Module Form (2021-2026)

2.4.8.3 Global DLE Membrane Materials Sale Price by Module Form (2021-2026)

2.5 DLE Membrane Materials Segment by Process Position

2.5.1 Primary Lithium Capture

2.5.2 Mg-Li Separation

2.5.3 Brine Concentration

2.5.4 Fouling Pretreatment

2.5.5 Electrolytic Conversion

2.5.6 Water Recovery

2.5.7 Other

2.5.8 DLE Membrane Materials Sales by Process Position

2.5.8.1 Global DLE Membrane Materials Sales Market Share by Process Position (2021-2026)

2.5.8.2 Global DLE Membrane Materials Revenue and Market Share by Process Position (2021-2026)

2.5.8.3 Global DLE Membrane Materials Sale Price by Process Position (2021-2026)

2.6 DLE Membrane Materials Segment by Application

2.6.1 Salt-Lake Brine DLE

2.6.2 Geothermal Brine DLE

2.6.3 Oilfield Produced-Water Lithium Recovery

2.6.4 Clay Leachate Lithium Purification

2.6.5 DLE Pilot and Demonstration Plants

2.6.6 Battery-Grade Lithium Hydroxide Refining

2.6.7 Brine Pretreatment for DLE

2.6.8 DLE Membrane Materials Sales by Application

2.6.8.1 Global DLE Membrane Materials Sale Market Share by Application
(2021-2026)

2.6.8.2 Global DLE Membrane Materials Revenue and Market Share by Application
(2021-2026)

2.6.8.3 Global DLE Membrane Materials Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global DLE Membrane Materials Breakdown Data by Company

3.1.1 Global DLE Membrane Materials Annual Sales by Company (2021-2026)

3.1.2 Global DLE Membrane Materials Sales Market Share by Company (2021-2026)

3.2 Global DLE Membrane Materials Annual Revenue by Company (2021-2026)

3.2.1 Global DLE Membrane Materials Revenue by Company (2021-2026)

3.2.2 Global DLE Membrane Materials Revenue Market Share by Company
(2021-2026)

3.3 Global DLE Membrane Materials Sale Price by Company

3.4 Key Manufacturers DLE Membrane Materials Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers DLE Membrane Materials Product Location Distribution

3.4.2 Players DLE Membrane Materials Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR DLE MEMBRANE MATERIALS BY GEOGRAPHIC REGION

4.1 World Historic DLE Membrane Materials Market Size by Geographic Region
(2021-2026)

- 4.1.1 Global DLE Membrane Materials Annual Sales by Geographic Region (2021-2026)
- 4.1.2 Global DLE Membrane Materials Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic DLE Membrane Materials Market Size by Country/Region (2021-2026)
 - 4.2.1 Global DLE Membrane Materials Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global DLE Membrane Materials Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas DLE Membrane Materials Sales Growth
- 4.4 APAC DLE Membrane Materials Sales Growth
- 4.5 Europe DLE Membrane Materials Sales Growth
- 4.6 Middle East & Africa DLE Membrane Materials Sales Growth

5 AMERICAS

- 5.1 Americas DLE Membrane Materials Sales by Country
 - 5.1.1 Americas DLE Membrane Materials Sales by Country (2021-2026)
 - 5.1.2 Americas DLE Membrane Materials Revenue by Country (2021-2026)
- 5.2 Americas DLE Membrane Materials Sales by Type (2021-2026)
- 5.3 Americas DLE Membrane Materials Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC DLE Membrane Materials Sales by Region
 - 6.1.1 APAC DLE Membrane Materials Sales by Region (2021-2026)
 - 6.1.2 APAC DLE Membrane Materials Revenue by Region (2021-2026)
- 6.2 APAC DLE Membrane Materials Sales by Type (2021-2026)
- 6.3 APAC DLE Membrane Materials Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe DLE Membrane Materials by Country

7.1.1 Europe DLE Membrane Materials Sales by Country (2021-2026)

7.1.2 Europe DLE Membrane Materials Revenue by Country (2021-2026)

7.2 Europe DLE Membrane Materials Sales by Type (2021-2026)

7.3 Europe DLE Membrane Materials Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa DLE Membrane Materials by Country

8.1.1 Middle East & Africa DLE Membrane Materials Sales by Country (2021-2026)

8.1.2 Middle East & Africa DLE Membrane Materials Revenue by Country (2021-2026)

8.2 Middle East & Africa DLE Membrane Materials Sales by Type (2021-2026)

8.3 Middle East & Africa DLE Membrane Materials Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of DLE Membrane Materials

10.3 Manufacturing Process Analysis of DLE Membrane Materials

10.4 Industry Chain Structure of DLE Membrane Materials

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 DLE Membrane Materials Distributors

11.3 DLE Membrane Materials Customer

12 WORLD FORECAST REVIEW FOR DLE MEMBRANE MATERIALS BY GEOGRAPHIC REGION

12.1 Global DLE Membrane Materials Market Size Forecast by Region

12.1.1 Global DLE Membrane Materials Forecast by Region (2027-2032)

12.1.2 Global DLE Membrane Materials Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global DLE Membrane Materials Forecast by Type (2027-2032)

12.7 Global DLE Membrane Materials Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 DuPont

13.1.1 DuPont Company Information

13.1.2 DuPont DLE Membrane Materials Product Portfolios and Specifications

13.1.3 DuPont DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 DuPont Main Business Overview

13.1.5 DuPont Latest Developments

13.2 EnergyX

13.2.1 EnergyX Company Information

13.2.2 EnergyX DLE Membrane Materials Product Portfolios and Specifications

13.2.3 EnergyX DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 EnergyX Main Business Overview

13.2.5 EnergyX Latest Developments

13.3 Evove

13.3.1 Evove Company Information

13.3.2 Evove DLE Membrane Materials Product Portfolios and Specifications

13.3.3 Evove DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Evove Main Business Overview

13.3.5 Evove Latest Developments

13.4 ElectraLith

13.4.1 ElectraLith Company Information

13.4.2 ElectraLith DLE Membrane Materials Product Portfolios and Specifications

13.4.3 ElectraLith DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 ElectraLith Main Business Overview

13.4.5 ElectraLith Latest Developments

13.5 Saltworks Technologies

13.5.1 Saltworks Technologies Company Information

13.5.2 Saltworks Technologies DLE Membrane Materials Product Portfolios and Specifications

13.5.3 Saltworks Technologies DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Saltworks Technologies Main Business Overview

13.5.5 Saltworks Technologies Latest Developments

13.6 Gradiant

13.6.1 Gradiant Company Information

13.6.2 Gradiant DLE Membrane Materials Product Portfolios and Specifications

13.6.3 Gradiant DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Gradiant Main Business Overview

13.6.5 Gradiant Latest Developments

13.7 alkaLi

13.7.1 alkaLi Company Information

13.7.2 alkaLi DLE Membrane Materials Product Portfolios and Specifications

13.7.3 alkaLi DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 alkaLi Main Business Overview

13.7.5 alkaLi Latest Developments

13.8 Kovalus Separation Solutions

13.8.1 Kovalus Separation Solutions Company Information

13.8.2 Kovalus Separation Solutions DLE Membrane Materials Product Portfolios and Specifications

13.8.3 Kovalus Separation Solutions DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Kovalus Separation Solutions Main Business Overview

13.8.5 Kovalus Separation Solutions Latest Developments

13.9 LiqTech

13.9.1 LiqTech Company Information

13.9.2 LiqTech DLE Membrane Materials Product Portfolios and Specifications

13.9.3 LiqTech DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 LiqTech Main Business Overview

13.9.5 LiqTech Latest Developments

13.10 NORAM Electrolysis Systems

13.10.1 NORAM Electrolysis Systems Company Information

13.10.2 NORAM Electrolysis Systems DLE Membrane Materials Product Portfolios and Specifications

13.10.3 NORAM Electrolysis Systems DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 NORAM Electrolysis Systems Main Business Overview

13.10.5 NORAM Electrolysis Systems Latest Developments

13.11 De Nora

13.11.1 De Nora Company Information

13.11.2 De Nora DLE Membrane Materials Product Portfolios and Specifications

13.11.3 De Nora DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 De Nora Main Business Overview

13.11.5 De Nora Latest Developments

13.12 Ionomr Innovations

13.12.1 Ionomr Innovations Company Information

13.12.2 Ionomr Innovations DLE Membrane Materials Product Portfolios and Specifications

13.12.3 Ionomr Innovations DLE Membrane Materials Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Ionomr Innovations Main Business Overview

13.12.5 Ionomr Innovations Latest Developments

13.13 SLB

13.13.1 SLB Company Information

13.13.2 SLB DLE Membrane Materials Product Portfolios and Specifications

13.13.3 SLB DLE Membrane Materials Sales, Revenue, Price and Gross Margin
(2021-2026)

13.13.4 SLB Main Business Overview

13.13.5 SLB Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

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

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

Table 3. Major Players of Lithium-Selective Membrane

Table 4. Major Players of Monovalent-Selective Ion-Exchange Membrane

Table 5. Major Players of Nanofiltration Membrane

Table 6. Major Players of Reverse Osmosis Concentration Membrane

Table 7. Major Players of Electrochemical Membrane

Table 8. Major Players of Pretreatment Ceramic Membrane

Table 9. Major Players of Other

Table 10. Global DLE Membrane Materials Sales by Type (2021-2026) & (Sq m)

Table 11. Global DLE Membrane Materials Sales Market Share by Type (2021-2026)

Table 12. Global DLE Membrane Materials Revenue by Type (2021-2026) & (\$ million)

Table 13. Global DLE Membrane Materials Revenue Market Share by Type (2021-2026)

Table 14. Global DLE Membrane Materials Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 15. Major Players of Polyamide Thin-Film Composite

Table 16. Major Players of Ion-Exchange Polymer

Table 17. Major Players of Bipolar Membrane

Table 18. Major Players of Inorganic Ceramic Composite

Table 19. Major Players of Nanochannel Composite

Table 20. Major Players of Coated Commercial Membrane

Table 21. Major Players of Other

Table 22. Global DLE Membrane Materials Sales by Membrane Material Structure (2021-2026) & (Sq m)

Table 23. Global DLE Membrane Materials Sales Market Share by Membrane Material Structure (2021-2026)

Table 24. Global DLE Membrane Materials Revenue by Membrane Material Structure (2021-2026) & (\$ million)

Table 25. Global DLE Membrane Materials Revenue Market Share by Membrane Material Structure (2021-2026)

Table 26. Global DLE Membrane Materials Sale Price by Membrane Material Structure (2021-2026) & (US\$/Sq m)

Table 27. Major Players of Spiral-Wound Element

Table 28. Major Players of Flat-Sheet Stack

Table 29. Major Players of Plate-Frame Module

Table 30. Major Players of Hollow-Fiber Module

Table 31. Major Players of Tubular Ceramic Module

Table 32. Major Players of Custom Membrane Stack

Table 33. Major Players of Other

Table 34. Global DLE Membrane Materials Sales by Module Form (2021-2026) & (Sq m)

Table 35. Global DLE Membrane Materials Sales Market Share by Module Form (2021-2026)

Table 36. Global DLE Membrane Materials Revenue by Module Form (2021-2026) & (\$ million)

Table 37. Global DLE Membrane Materials Revenue Market Share by Module Form (2021-2026)

Table 38. Global DLE Membrane Materials Sale Price by Module Form (2021-2026) & (US\$/Sq m)

Table 39. Major Players of Primary Lithium Capture

Table 40. Major Players of Mg-Li Separation

Table 41. Major Players of Brine Concentration

Table 42. Major Players of Fouling Pretreatment

Table 43. Major Players of Electrolytic Conversion

Table 44. Major Players of Water Recovery

Table 45. Major Players of Other

Table 46. Global DLE Membrane Materials Sales by Process Position (2021-2026) & (Sq m)

Table 47. Global DLE Membrane Materials Sales Market Share by Process Position (2021-2026)

Table 48. Global DLE Membrane Materials Revenue by Process Position (2021-2026) & (\$ million)

Table 49. Global DLE Membrane Materials Revenue Market Share by Process Position (2021-2026)

Table 50. Global DLE Membrane Materials Sale Price by Process Position (2021-2026) & (US\$/Sq m)

Table 51. Global DLE Membrane Materials Sale by Application (2021-2026) & (Sq m)

Table 52. Global DLE Membrane Materials Sale Market Share by Application (2021-2026)

Table 53. Global DLE Membrane Materials Revenue by Application (2021-2026) & (\$ million)

Table 54. Global DLE Membrane Materials Revenue Market Share by Application (2021-2026)

Table 55. Global DLE Membrane Materials Sale Price by Application (2021-2026) & (US\$/Sq m)

Table 56. Global DLE Membrane Materials Sales by Company (2021-2026) & (Sq m)

Table 57. Global DLE Membrane Materials Sales Market Share by Company (2021-2026)

Table 58. Global DLE Membrane Materials Revenue by Company (2021-2026) & (\$ millions)

Table 59. Global DLE Membrane Materials Revenue Market Share by Company (2021-2026)

Table 60. Global DLE Membrane Materials Sale Price by Company (2021-2026) & (US\$/Sq m)

Table 61. Key Manufacturers DLE Membrane Materials Producing Area Distribution and Sales Area

Table 62. Players DLE Membrane Materials Products Offered

Table 63. DLE Membrane Materials Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 64. New Products and Potential Entrants

Table 65. Market M&A Activity & Strategy

Table 66. Global DLE Membrane Materials Sales by Geographic Region (2021-2026) & (Sq m)

Table 67. Global DLE Membrane Materials Sales Market Share Geographic Region (2021-2026)

Table 68. Global DLE Membrane Materials Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 69. Global DLE Membrane Materials Revenue Market Share by Geographic Region (2021-2026)

Table 70. Global DLE Membrane Materials Sales by Country/Region (2021-2026) & (Sq m)

Table 71. Global DLE Membrane Materials Sales Market Share by Country/Region (2021-2026)

Table 72. Global DLE Membrane Materials Revenue by Country/Region (2021-2026) & (\$ millions)

Table 73. Global DLE Membrane Materials Revenue Market Share by Country/Region (2021-2026)

Table 74. Americas DLE Membrane Materials Sales by Country (2021-2026) & (Sq m)

Table 75. Americas DLE Membrane Materials Sales Market Share by Country (2021-2026)

Table 76. Americas DLE Membrane Materials Revenue by Country (2021-2026) & (\$ millions)

Table 77. Americas DLE Membrane Materials Sales by Type (2021-2026) & (Sq m)

Table 78. Americas DLE Membrane Materials Sales by Application (2021-2026) & (Sq m)

Table 79. APAC DLE Membrane Materials Sales by Region (2021-2026) & (Sq m)

Table 80. APAC DLE Membrane Materials Sales Market Share by Region (2021-2026)

Table 81. APAC DLE Membrane Materials Revenue by Region (2021-2026) & (\$ millions)

Table 82. APAC DLE Membrane Materials Sales by Type (2021-2026) & (Sq m)

Table 83. APAC DLE Membrane Materials Sales by Application (2021-2026) & (Sq m)

Table 84. Europe DLE Membrane Materials Sales by Country (2021-2026) & (Sq m)

Table 85. Europe DLE Membrane Materials Revenue by Country (2021-2026) & (\$ millions)

Table 86. Europe DLE Membrane Materials Sales by Type (2021-2026) & (Sq m)

Table 87. Europe DLE Membrane Materials Sales by Application (2021-2026) & (Sq m)

Table 88. Middle East & Africa DLE Membrane Materials Sales by Country (2021-2026) & (Sq m)

Table 89. Middle East & Africa DLE Membrane Materials Revenue Market Share by Country (2021-2026)

Table 90. Middle East & Africa DLE Membrane Materials Sales by Type (2021-2026) & (Sq m)

Table 91. Middle East & Africa DLE Membrane Materials Sales by Application (2021-2026) & (Sq m)

Table 92. Key Market Drivers & Growth Opportunities of DLE Membrane Materials

Table 93. Key Market Challenges & Risks of DLE Membrane Materials

Table 94. Key Industry Trends of DLE Membrane Materials

Table 95. DLE Membrane Materials Raw Material

Table 96. Key Suppliers of Raw Materials

Table 97. DLE Membrane Materials Distributors List

Table 98. DLE Membrane Materials Customer List

Table 99. Global DLE Membrane Materials Sales Forecast by Region (2027-2032) & (Sq m)

Table 100. Global DLE Membrane Materials Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 101. Americas DLE Membrane Materials Sales Forecast by Country (2027-2032) & (Sq m)

Table 102. Americas DLE Membrane Materials Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 103. APAC DLE Membrane Materials Sales Forecast by Region (2027-2032) & (Sq m)

Table 104. APAC DLE Membrane Materials Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 105. Europe DLE Membrane Materials Sales Forecast by Country (2027-2032) & (Sq m)

Table 106. Europe DLE Membrane Materials Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 107. Middle East & Africa DLE Membrane Materials Sales Forecast by Country (2027-2032) & (Sq m)

Table 108. Middle East & Africa DLE Membrane Materials Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 109. Global DLE Membrane Materials Sales Forecast by Type (2027-2032) & (Sq m)

Table 110. Global DLE Membrane Materials Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 111. Global DLE Membrane Materials Sales Forecast by Application (2027-2032) & (Sq m)

Table 112. Global DLE Membrane Materials Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 113. DuPont Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 114. DuPont DLE Membrane Materials Product Portfolios and Specifications

Table 115. DuPont DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 116. DuPont Main Business

Table 117. DuPont Latest Developments

Table 118. EnergyX Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 119. EnergyX DLE Membrane Materials Product Portfolios and Specifications

Table 120. EnergyX DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 121. EnergyX Main Business

Table 122. EnergyX Latest Developments

Table 123. Evove Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 124. Evove DLE Membrane Materials Product Portfolios and Specifications

Table 125. Evove DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 126. Evove Main Business

Table 127. Evove Latest Developments

Table 128. ElectraLith Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 129. ElectraLith DLE Membrane Materials Product Portfolios and Specifications

Table 130. ElectraLith DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 131. ElectraLith Main Business

Table 132. ElectraLith Latest Developments

Table 133. Saltworks Technologies Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 134. Saltworks Technologies DLE Membrane Materials Product Portfolios and Specifications

Table 135. Saltworks Technologies DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 136. Saltworks Technologies Main Business

Table 137. Saltworks Technologies Latest Developments

Table 138. Gradient Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 139. Gradient DLE Membrane Materials Product Portfolios and Specifications

Table 140. Gradient DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 141. Gradient Main Business

Table 142. Gradient Latest Developments

Table 143. alkaLi Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 144. alkaLi DLE Membrane Materials Product Portfolios and Specifications

Table 145. alkaLi DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 146. alkaLi Main Business

Table 147. alkaLi Latest Developments

Table 148. Kovalus Separation Solutions Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 149. Kovalus Separation Solutions DLE Membrane Materials Product Portfolios and Specifications

Table 150. Kovalus Separation Solutions DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 151. Kovalus Separation Solutions Main Business

Table 152. Kovalus Separation Solutions Latest Developments

Table 153. LiqTech Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 154. LiqTech DLE Membrane Materials Product Portfolios and Specifications

Table 155. LiqTech DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 156. LiqTech Main Business

Table 157. LiqTech Latest Developments

Table 158. NORAM Electrolysis Systems Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 159. NORAM Electrolysis Systems DLE Membrane Materials Product Portfolios and Specifications

Table 160. NORAM Electrolysis Systems DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 161. NORAM Electrolysis Systems Main Business

Table 162. NORAM Electrolysis Systems Latest Developments

Table 163. De Nora Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 164. De Nora DLE Membrane Materials Product Portfolios and Specifications

Table 165. De Nora DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 166. De Nora Main Business

Table 167. De Nora Latest Developments

Table 168. Ionomr Innovations Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 169. Ionomr Innovations DLE Membrane Materials Product Portfolios and Specifications

Table 170. Ionomr Innovations DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 171. Ionomr Innovations Main Business

Table 172. Ionomr Innovations Latest Developments

Table 173. SLB Basic Information, DLE Membrane Materials Manufacturing Base, Sales Area and Its Competitors

Table 174. SLB DLE Membrane Materials Product Portfolios and Specifications

Table 175. SLB DLE Membrane Materials Sales (Sq m), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 176. SLB Main Business

Table 177. SLB Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of DLE Membrane Materials
- Figure 2. DLE Membrane Materials Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global DLE Membrane Materials Sales Growth Rate 2021-2032 (Sq m)
- Figure 7. Global DLE Membrane Materials Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. DLE Membrane Materials Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. DLE Membrane Materials Sales Market Share by Country/Region (2025)
- Figure 10. DLE Membrane Materials Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Lithium-Selective Membrane
- Figure 12. Product Picture of Monovalent-Selective Ion-Exchange Membrane
- Figure 13. Product Picture of Nanofiltration Membrane
- Figure 14. Product Picture of Reverse Osmosis Concentration Membrane
- Figure 15. Product Picture of Electrochemical Membrane
- Figure 16. Product Picture of Pretreatment Ceramic Membrane
- Figure 17. Product Picture of Other
- Figure 18. Global DLE Membrane Materials Sales Market Share by Type in 2026
- Figure 19. Global DLE Membrane Materials Revenue Market Share by Type (2021-2026)
- Figure 20. Product Picture of Polyamide Thin-Film Composite
- Figure 21. Product Picture of Ion-Exchange Polymer
- Figure 22. Product Picture of Bipolar Membrane
- Figure 23. Product Picture of Inorganic Ceramic Composite
- Figure 24. Product Picture of Nanochannel Composite
- Figure 25. Product Picture of Coated Commercial Membrane
- Figure 26. Product Picture of Other
- Figure 27. Global DLE Membrane Materials Sales Market Share by Membrane Material Structure in 2026
- Figure 28. Global DLE Membrane Materials Revenue Market Share by Membrane Material Structure (2021-2026)
- Figure 29. Product Picture of Spiral-Wound Element

Figure 30. Product Picture of Flat-Sheet Stack

Figure 31. Product Picture of Plate-Frame Module

Figure 32. Product Picture of Hollow-Fiber Module

Figure 33. Product Picture of Tubular Ceramic Module

Figure 34. Product Picture of Custom Membrane Stack

Figure 35. Product Picture of Other

Figure 36. Global DLE Membrane Materials Sales Market Share by Module Form in 2026

Figure 37. Global DLE Membrane Materials Revenue Market Share by Module Form (2021-2026)

Figure 38. Product Picture of Primary Lithium Capture

Figure 39. Product Picture of Mg-Li Separation

Figure 40. Product Picture of Brine Concentration

Figure 41. Product Picture of Fouling Pretreatment

Figure 42. Product Picture of Electrolytic Conversion

Figure 43. Product Picture of Water Recovery

Figure 44. Product Picture of Other

Figure 45. Global DLE Membrane Materials Sales Market Share by Process Position in 2026

Figure 46. Global DLE Membrane Materials Revenue Market Share by Process Position (2021-2026)

Figure 47. DLE Membrane Materials Consumed in Salt-Lake Brine DLE

Figure 48. Global DLE Membrane Materials Market: Salt-Lake Brine DLE (2021-2026) & (Sq m)

Figure 49. DLE Membrane Materials Consumed in Geothermal Brine DLE

Figure 50. Global DLE Membrane Materials Market: Geothermal Brine DLE (2021-2026) & (Sq m)

Figure 51. DLE Membrane Materials Consumed in Oilfield Produced-Water Lithium Recovery

Figure 52. Global DLE Membrane Materials Market: Oilfield Produced-Water Lithium Recovery (2021-2026) & (Sq m)

Figure 53. DLE Membrane Materials Consumed in Clay Leachate Lithium Purification

Figure 54. Global DLE Membrane Materials Market: Clay Leachate Lithium Purification (2021-2026) & (Sq m)

Figure 55. DLE Membrane Materials Consumed in DLE Pilot and Demonstration Plants

Figure 56. Global DLE Membrane Materials Market: DLE Pilot and Demonstration Plants (2021-2026) & (Sq m)

Figure 57. DLE Membrane Materials Consumed in Battery-Grade Lithium Hydroxide Refining

Figure 58. Global DLE Membrane Materials Market: Battery-Grade Lithium Hydroxide Refining (2021-2026) & (Sq m)

Figure 59. DLE Membrane Materials Consumed in Brine Pretreatment for DLE

Figure 60. Global DLE Membrane Materials Market: Brine Pretreatment for DLE (2021-2026) & (Sq m)

Figure 61. Global DLE Membrane Materials Sale Market Share by Application (2025)

Figure 62. Global DLE Membrane Materials Revenue Market Share by Application in 2025

Figure 63. DLE Membrane Materials Sales by Company in 2025 (Sq m)

Figure 64. Global DLE Membrane Materials Sales Market Share by Company in 2025

Figure 65. DLE Membrane Materials Revenue by Company in 2025 (\$ millions)

Figure 66. Global DLE Membrane Materials Revenue Market Share by Company in 2025

Figure 67. Global DLE Membrane Materials Sales Market Share by Geographic Region (2021-2026)

Figure 68. Global DLE Membrane Materials Revenue Market Share by Geographic Region in 2025

Figure 69. Americas DLE Membrane Materials Sales 2021-2026 (Sq m)

Figure 70. Americas DLE Membrane Materials Revenue 2021-2026 (\$ millions)

Figure 71. APAC DLE Membrane Materials Sales 2021-2026 (Sq m)

Figure 72. APAC DLE Membrane Materials Revenue 2021-2026 (\$ millions)

Figure 73. Europe DLE Membrane Materials Sales 2021-2026 (Sq m)

Figure 74. Europe DLE Membrane Materials Revenue 2021-2026 (\$ millions)

Figure 75. Middle East & Africa DLE Membrane Materials Sales 2021-2026 (Sq m)

Figure 76. Middle East & Africa DLE Membrane Materials Revenue 2021-2026 (\$ millions)

Figure 77. Americas DLE Membrane Materials Sales Market Share by Country in 2025

Figure 78. Americas DLE Membrane Materials Revenue Market Share by Country (2021-2026)

Figure 79. Americas DLE Membrane Materials Sales Market Share by Type (2021-2026)

Figure 80. Americas DLE Membrane Materials Sales Market Share by Application (2021-2026)

Figure 81. United States DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 82. Canada DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 83. Mexico DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 84. Brazil DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 85. APAC DLE Membrane Materials Sales Market Share by Region in 2025

Figure 86. APAC DLE Membrane Materials Revenue Market Share by Region (2021-2026)

Figure 87. APAC DLE Membrane Materials Sales Market Share by Type (2021-2026)

Figure 88. APAC DLE Membrane Materials Sales Market Share by Application (2021-2026)

Figure 89. China DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 90. Japan DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 91. South Korea DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 92. Southeast Asia DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 93. India DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 94. Australia DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 95. China Taiwan DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 96. Europe DLE Membrane Materials Sales Market Share by Country in 2025

Figure 97. Europe DLE Membrane Materials Revenue Market Share by Country (2021-2026)

Figure 98. Europe DLE Membrane Materials Sales Market Share by Type (2021-2026)

Figure 99. Europe DLE Membrane Materials Sales Market Share by Application (2021-2026)

Figure 100. Germany DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 101. France DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 102. UK DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 103. Italy DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 104. Russia DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 105. Middle East & Africa DLE Membrane Materials Sales Market Share by Country (2021-2026)

Figure 106. Middle East & Africa DLE Membrane Materials Sales Market Share by Type (2021-2026)

Figure 107. Middle East & Africa DLE Membrane Materials Sales Market Share by Application (2021-2026)

Figure 108. Egypt DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 109. South Africa DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 110. Israel DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 111. Turkey DLE Membrane Materials Revenue Growth 2021-2026 (\$ millions)

Figure 112. GCC Countries DLE Membrane Materials Revenue Growth 2021-2026 (\$

millions)

Figure 113. Manufacturing Cost Structure Analysis of DLE Membrane Materials in 2026

Figure 114. Manufacturing Process Analysis of DLE Membrane Materials

Figure 115. Industry Chain Structure of DLE Membrane Materials

Figure 116. Channels of Distribution

Figure 117. Global DLE Membrane Materials Sales Market Forecast by Region
(2027-2032)

Figure 118. Global DLE Membrane Materials Revenue Market Share Forecast by
Region (2027-2032)

Figure 119. Global DLE Membrane Materials Sales Market Share Forecast by Type
(2027-2032)

Figure 120. Global DLE Membrane Materials Revenue Market Share Forecast by Type
(2027-2032)

Figure 121. Global DLE Membrane Materials Sales Market Share Forecast by
Application (2027-2032)

Figure 122. Global DLE Membrane Materials Revenue Market Share Forecast by
Application (2027-2032)

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