

Global Chromatography Membrane Stack Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chromatography Membrane Stack market size is expected to reach \$ 1110 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

Chromatography membrane stacks are high-throughput separation media constructed by stacking multiple porous membranes functionalized with ion-exchange, affinity, hydrophobic interaction, or multimodal ligands. These membrane layers are assembled with defined flow channels and support structures and are typically packaged as single-use membrane adsorbers, capsule devices, filter cartridges, or plate-based modules. Their key feature is convective mass transfer, which replaces the diffusion-limited transport in traditional bead-based resins, enabling rapid capture, impurity removal, endotoxin clearance, and purification of viral vectors and nucleic acids under short residence times. Applications include fast process screening, scale-up, and high-flow polishing in biopharmaceutical downstream processing. The estimated gross margin is approximately 60%.

Demand for chromatography membrane stacks is driven by the transition of bioprocessing from traditional packed-bed chromatography toward high-throughput, single-use, and short-cycle workflows. In monoclonal antibody production, membrane adsorbers are widely used for flow-through polishing steps such as removal of host cell proteins, nucleic acids, endotoxins, and viral impurities. For viral vectors, plasmid DNA, and nucleic acid therapeutics, the larger molecular size often limits access to resin pores, making convective membrane transport significantly more efficient than diffusion-based bead resins.

Market expansion is driven not only by direct replacement of column chromatography,

but also by the need for faster process switching, reduced buffer consumption, and improved scalability consistency across multi-product facilities. Leading suppliers remain dominated by companies such as Sartorius, Cytiva, and Merck, while players like Cobetter and Donaldson/Purilogs are expanding in ion-exchange, affinity, and large-scale membrane adsorber segments. Future pricing pressure is expected in standard polishing applications, while higher-margin opportunities are concentrated in high-capacity membranes, specialized ligands, viral vector purification workflows, and nucleic acid manufacturing process packages.

This report studies the global Chromatography Membrane Stack production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chromatography Membrane Stack and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Chromatography Membrane Stack that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chromatography Membrane Stack total production and demand, 2021-2032, (kg)

Global Chromatography Membrane Stack total production value, 2021-2032, (USD Million)

Global Chromatography Membrane Stack production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Chromatography Membrane Stack consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Chromatography Membrane Stack domestic production, consumption, key domestic manufacturers and share

Global Chromatography Membrane Stack production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Chromatography Membrane Stack production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Chromatography Membrane Stack production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Chromatography Membrane Stack market based on the following parameters - company overview, production, value, price, gross

margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sartorius, Cytiva, Merck, Cobetter, Donaldson Life Sciences, Gore, Thermo Fisher Scientific, I3 Membrane, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Chromatography Membrane Stack market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Chromatography Membrane Stack Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chromatography Membrane Stack Market, Segmentation by Type:

Anion Exchange Membrane Stack

Cation Exchange Membrane Stack

Affinity Membrane Stack

Hydrophobic Interaction Membrane Stack

Mixed-Mode Membrane Stack

Other Membrane Stack

Global Chromatography Membrane Stack Market, Segmentation by Matrix Material:

Cellulose-Based Membrane Stack

Polyethersulfone Membrane Stack

Polyacrylamide Hydrogel Membrane Stack

ePTFE Composite Membrane Stack

Nonwoven Hybrid Membrane Stack

Other Matrix Membrane Stack

Global Chromatography Membrane Stack Market, Segmentation by Operation Mode:

Flow-Through Polishing Stack

Bind-and-Elute Capture Stack

Rapid Cycling Capture Stack

Hybrid Clarification Stack

Other Operation Mode Stack

Global Chromatography Membrane Stack Market, Segmentation by Target Biomolecule:

Protein and Antibody Stack

Viral Vector and VLP Stack

Plasmid DNA and mRNA Stack

Oligonucleotide Stack

Impurity Removal Stack

Other Biomolecule Stack

Global Chromatography Membrane Stack Market, Segmentation by Application:

Monoclonal Antibody Polishing

Viral Vector Purification

Plasmid and mRNA Purification

Vaccine and VLP Processing

Impurity and Endotoxin Removal

Process Development and Screening

Companies Profiled:

Sartorius

Cytiva

Merck

Cobetter

Donaldson Life Sciences

Gore

Thermo Fisher Scientific

I3 Membrane

Key Questions Answered:

1. How big is the global Chromatography Membrane Stack market?
2. What is the demand of the global Chromatography Membrane Stack market?
3. What is the year over year growth of the global Chromatography Membrane Stack market?
4. What is the production and production value of the global Chromatography Membrane Stack market?
5. Who are the key producers in the global Chromatography Membrane Stack market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Chromatography Membrane Stack Introduction
- 1.2 World Chromatography Membrane Stack Supply & Forecast
 - 1.2.1 World Chromatography Membrane Stack Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Chromatography Membrane Stack Production (2021-2032)
 - 1.2.3 World Chromatography Membrane Stack Pricing Trends (2021-2032)
- 1.3 World Chromatography Membrane Stack Production by Region (Based on Production Site)
 - 1.3.1 World Chromatography Membrane Stack Production Value by Region (2021-2032)
 - 1.3.2 World Chromatography Membrane Stack Production by Region (2021-2032)
 - 1.3.3 World Chromatography Membrane Stack Average Price by Region (2021-2032)
 - 1.3.4 North America Chromatography Membrane Stack Production (2021-2032)
 - 1.3.5 Europe Chromatography Membrane Stack Production (2021-2032)
 - 1.3.6 China Chromatography Membrane Stack Production (2021-2032)
 - 1.3.7 Japan Chromatography Membrane Stack Production (2021-2032)
 - 1.3.8 India Chromatography Membrane Stack Production (2021-2032)
 - 1.3.9 Southeast Asia Chromatography Membrane Stack Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Chromatography Membrane Stack Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Chromatography Membrane Stack Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Chromatography Membrane Stack Demand (2021-2032)
- 2.2 World Chromatography Membrane Stack Consumption by Region
 - 2.2.1 World Chromatography Membrane Stack Consumption by Region (2021-2026)
 - 2.2.2 World Chromatography Membrane Stack Consumption Forecast by Region (2027-2032)
- 2.3 United States Chromatography Membrane Stack Consumption (2021-2032)
- 2.4 China Chromatography Membrane Stack Consumption (2021-2032)
- 2.5 Europe Chromatography Membrane Stack Consumption (2021-2032)
- 2.6 Japan Chromatography Membrane Stack Consumption (2021-2032)
- 2.7 South Korea Chromatography Membrane Stack Consumption (2021-2032)

2.8 ASEAN Chromatography Membrane Stack Consumption (2021-2032)

2.9 India Chromatography Membrane Stack Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Chromatography Membrane Stack Production Value by Manufacturer (2021-2026)

3.2 World Chromatography Membrane Stack Production by Manufacturer (2021-2026)

3.3 World Chromatography Membrane Stack Average Price by Manufacturer (2021-2026)

3.4 Chromatography Membrane Stack Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Chromatography Membrane Stack Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Chromatography Membrane Stack in 2025

3.5.3 Global Concentration Ratios (CR8) for Chromatography Membrane Stack in 2025

3.6 Chromatography Membrane Stack Market: Overall Company Footprint Analysis

3.6.1 Chromatography Membrane Stack Market: Region Footprint

3.6.2 Chromatography Membrane Stack Market: Company Product Type Footprint

3.6.3 Chromatography Membrane Stack Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Chromatography Membrane Stack Production Value Comparison

4.1.1 United States VS China: Chromatography Membrane Stack Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Chromatography Membrane Stack Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Chromatography Membrane Stack Production Comparison

4.2.1 United States VS China: Chromatography Membrane Stack Production

Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Chromatography Membrane Stack Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Chromatography Membrane Stack Consumption Comparison

4.3.1 United States VS China: Chromatography Membrane Stack Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Chromatography Membrane Stack Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Chromatography Membrane Stack Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Chromatography Membrane Stack Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Chromatography Membrane Stack Production Value (2021-2026)

4.4.3 United States Based Manufacturers Chromatography Membrane Stack Production (2021-2026)

4.5 China Based Chromatography Membrane Stack Manufacturers and Market Share

4.5.1 China Based Chromatography Membrane Stack Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Chromatography Membrane Stack Production Value (2021-2026)

4.5.3 China Based Manufacturers Chromatography Membrane Stack Production (2021-2026)

4.6 Rest of World Based Chromatography Membrane Stack Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Chromatography Membrane Stack Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Chromatography Membrane Stack Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Chromatography Membrane Stack Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Chromatography Membrane Stack Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Anion Exchange Membrane Stack

- 5.2.2 Cation Exchange Membrane Stack
- 5.2.3 Affinity Membrane Stack
- 5.2.4 Hydrophobic Interaction Membrane Stack
- 5.2.5 Mixed-Mode Membrane Stack
- 5.2.6 Other Membrane Stack
- 5.3 Market Segment by Type
 - 5.3.1 World Chromatography Membrane Stack Production by Type (2021-2032)
 - 5.3.2 World Chromatography Membrane Stack Production Value by Type (2021-2032)
 - 5.3.3 World Chromatography Membrane Stack Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MATRIX MATERIAL

- 6.1 World Chromatography Membrane Stack Market Size Overview by Matrix Material: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Matrix Material
 - 6.2.1 Cellulose-Based Membrane Stack
 - 6.2.2 Polyethersulfone Membrane Stack
 - 6.2.3 Polyacrylamide Hydrogel Membrane Stack
 - 6.2.4 ePTFE Composite Membrane Stack
 - 6.2.5 Nonwoven Hybrid Membrane Stack
 - 6.2.6 Other Matrix Membrane Stack
- 6.3 Market Segment by Matrix Material
 - 6.3.1 World Chromatography Membrane Stack Production by Matrix Material (2021-2032)
 - 6.3.2 World Chromatography Membrane Stack Production Value by Matrix Material (2021-2032)
 - 6.3.3 World Chromatography Membrane Stack Average Price by Matrix Material (2021-2032)

7 MARKET ANALYSIS BY OPERATION MODE

- 7.1 World Chromatography Membrane Stack Market Size Overview by Operation Mode: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Operation Mode
 - 7.2.1 Flow-Through Polishing Stack
 - 7.2.2 Bind-and-Elute Capture Stack
 - 7.2.3 Rapid Cycling Capture Stack
 - 7.2.4 Hybrid Clarification Stack
 - 7.2.5 Other Operation Mode Stack

7.3 Market Segment by Operation Mode

7.3.1 World Chromatography Membrane Stack Production by Operation Mode
(2021-2032)

7.3.2 World Chromatography Membrane Stack Production Value by Operation Mode
(2021-2032)

7.3.3 World Chromatography Membrane Stack Average Price by Operation Mode
(2021-2032)

8 MARKET ANALYSIS BY TARGET BIOMOLECULE

8.1 World Chromatography Membrane Stack Market Size Overview by Target Biomolecule: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Target Biomolecule

8.2.1 Protein and Antibody Stack

8.2.2 Viral Vector and VLP Stack

8.2.3 Plasmid DNA and mRNA Stack

8.2.4 Oligonucleotide Stack

8.2.5 Impurity Removal Stack

8.2.6 Other Biomolecule Stack

8.3 Market Segment by Target Biomolecule

8.3.1 World Chromatography Membrane Stack Production by Target Biomolecule
(2021-2032)

8.3.2 World Chromatography Membrane Stack Production Value by Target Biomolecule (2021-2032)

8.3.3 World Chromatography Membrane Stack Average Price by Target Biomolecule
(2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Chromatography Membrane Stack Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Monoclonal Antibody Polishing

9.2.2 Viral Vector Purification

9.2.3 Plasmid and mRNA Purification

9.2.4 Vaccine and VLP Processing

9.2.5 Impurity and Endotoxin Removal

9.2.6 Process Development and Screening

9.3 Market Segment by Application

- 9.3.1 World Chromatography Membrane Stack Production by Application (2021-2032)
- 9.3.2 World Chromatography Membrane Stack Production Value by Application (2021-2032)
- 9.3.3 World Chromatography Membrane Stack Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 Sartorius

- 10.1.1 Sartorius Details
- 10.1.2 Sartorius Major Business
- 10.1.3 Sartorius Chromatography Membrane Stack Product and Services
- 10.1.4 Sartorius Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.1.5 Sartorius Recent Developments/Updates
- 10.1.6 Sartorius Competitive Strengths & Weaknesses

10.2 Cytiva

- 10.2.1 Cytiva Details
- 10.2.2 Cytiva Major Business
- 10.2.3 Cytiva Chromatography Membrane Stack Product and Services
- 10.2.4 Cytiva Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.2.5 Cytiva Recent Developments/Updates
- 10.2.6 Cytiva Competitive Strengths & Weaknesses

10.3 Merck

- 10.3.1 Merck Details
- 10.3.2 Merck Major Business
- 10.3.3 Merck Chromatography Membrane Stack Product and Services
- 10.3.4 Merck Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.3.5 Merck Recent Developments/Updates
- 10.3.6 Merck Competitive Strengths & Weaknesses

10.4 Cobetter

- 10.4.1 Cobetter Details
- 10.4.2 Cobetter Major Business
- 10.4.3 Cobetter Chromatography Membrane Stack Product and Services
- 10.4.4 Cobetter Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.4.5 Cobetter Recent Developments/Updates

- 10.4.6 Cobetter Competitive Strengths & Weaknesses
- 10.5 Donaldson Life Sciences
 - 10.5.1 Donaldson Life Sciences Details
 - 10.5.2 Donaldson Life Sciences Major Business
 - 10.5.3 Donaldson Life Sciences Chromatography Membrane Stack Product and Services
 - 10.5.4 Donaldson Life Sciences Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.5.5 Donaldson Life Sciences Recent Developments/Updates
 - 10.5.6 Donaldson Life Sciences Competitive Strengths & Weaknesses
- 10.6 Gore
 - 10.6.1 Gore Details
 - 10.6.2 Gore Major Business
 - 10.6.3 Gore Chromatography Membrane Stack Product and Services
 - 10.6.4 Gore Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Gore Recent Developments/Updates
 - 10.6.6 Gore Competitive Strengths & Weaknesses
- 10.7 Thermo Fisher Scientific
 - 10.7.1 Thermo Fisher Scientific Details
 - 10.7.2 Thermo Fisher Scientific Major Business
 - 10.7.3 Thermo Fisher Scientific Chromatography Membrane Stack Product and Services
 - 10.7.4 Thermo Fisher Scientific Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Thermo Fisher Scientific Recent Developments/Updates
 - 10.7.6 Thermo Fisher Scientific Competitive Strengths & Weaknesses
- 10.8 I3 Membrane
 - 10.8.1 I3 Membrane Details
 - 10.8.2 I3 Membrane Major Business
 - 10.8.3 I3 Membrane Chromatography Membrane Stack Product and Services
 - 10.8.4 I3 Membrane Chromatography Membrane Stack Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 I3 Membrane Recent Developments/Updates
 - 10.8.6 I3 Membrane Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Chromatography Membrane Stack Industry Chain

11.2 Chromatography Membrane Stack Upstream Analysis

11.2.1 Chromatography Membrane Stack Core Raw Materials

11.2.2 Main Manufacturers of Chromatography Membrane Stack Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Chromatography Membrane Stack Production Mode

11.6 Chromatography Membrane Stack Procurement Model

11.7 Chromatography Membrane Stack Industry Sales Model and Sales Channels

11.7.1 Chromatography Membrane Stack Sales Model

11.7.2 Chromatography Membrane Stack Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Chromatography Membrane Stack Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Chromatography Membrane Stack Production Value by Region (2021-2026) & (USD Million)

Table 3. World Chromatography Membrane Stack Production Value by Region (2027-2032) & (USD Million)

Table 4. World Chromatography Membrane Stack Production Value Market Share by Region (2021-2026)

Table 5. World Chromatography Membrane Stack Production Value Market Share by Region (2027-2032)

Table 6. World Chromatography Membrane Stack Production by Region (2021-2026) & (kg)

Table 7. World Chromatography Membrane Stack Production by Region (2027-2032) & (kg)

Table 8. World Chromatography Membrane Stack Production Market Share by Region (2021-2026)

Table 9. World Chromatography Membrane Stack Production Market Share by Region (2027-2032)

Table 10. World Chromatography Membrane Stack Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Chromatography Membrane Stack Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Chromatography Membrane Stack Major Market Trends

Table 13. World Chromatography Membrane Stack Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)

Table 14. World Chromatography Membrane Stack Consumption by Region (2021-2026) & (kg)

Table 15. World Chromatography Membrane Stack Consumption Forecast by Region (2027-2032) & (kg)

Table 16. World Chromatography Membrane Stack Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Chromatography Membrane Stack Producers in 2025

Table 18. World Chromatography Membrane Stack Production by Manufacturer (2021-2026) & (kg)

Table 19. Production Market Share of Key Chromatography Membrane Stack Producers in 2025

Table 20. World Chromatography Membrane Stack Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Chromatography Membrane Stack Company Evaluation Quadrant

Table 22. World Chromatography Membrane Stack Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Chromatography Membrane Stack Production Site of Key Manufacturer

Table 24. Chromatography Membrane Stack Market: Company Product Type Footprint

Table 25. Chromatography Membrane Stack Market: Company Product Application Footprint

Table 26. Chromatography Membrane Stack Competitive Factors

Table 27. Chromatography Membrane Stack New Entrant and Capacity Expansion Plans

Table 28. Chromatography Membrane Stack Mergers & Acquisitions Activity

Table 29. United States VS China Chromatography Membrane Stack Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Chromatography Membrane Stack Production Comparison, (2021 & 2025 & 2032) & (kg)

Table 31. United States VS China Chromatography Membrane Stack Consumption Comparison, (2021 & 2025 & 2032) & (kg)

Table 32. United States Based Chromatography Membrane Stack Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Chromatography Membrane Stack Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Chromatography Membrane Stack Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Chromatography Membrane Stack Production (2021-2026) & (kg)

Table 36. United States Based Manufacturers Chromatography Membrane Stack Production Market Share (2021-2026)

Table 37. China Based Chromatography Membrane Stack Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Chromatography Membrane Stack Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Chromatography Membrane Stack Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Chromatography Membrane Stack Production,

(2021-2026) & (kg)

Table 41. China Based Manufacturers Chromatography Membrane Stack Production Market Share (2021-2026)

Table 42. Rest of World Based Chromatography Membrane Stack Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Chromatography Membrane Stack Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Chromatography Membrane Stack Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Chromatography Membrane Stack Production, (2021-2026) & (kg)

Table 46. Rest of World Based Manufacturers Chromatography Membrane Stack Production Market Share (2021-2026)

Table 47. World Chromatography Membrane Stack Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Chromatography Membrane Stack Production by Type (2021-2026) & (kg)

Table 49. World Chromatography Membrane Stack Production by Type (2027-2032) & (kg)

Table 50. World Chromatography Membrane Stack Production Value by Type (2021-2026) & (USD Million)

Table 51. World Chromatography Membrane Stack Production Value by Type (2027-2032) & (USD Million)

Table 52. World Chromatography Membrane Stack Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Chromatography Membrane Stack Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Chromatography Membrane Stack Production Value by Matrix Material, (USD Million), 2021 & 2025 & 2032

Table 55. World Chromatography Membrane Stack Production by Matrix Material (2021-2026) & (kg)

Table 56. World Chromatography Membrane Stack Production by Matrix Material (2027-2032) & (kg)

Table 57. World Chromatography Membrane Stack Production Value by Matrix Material (2021-2026) & (USD Million)

Table 58. World Chromatography Membrane Stack Production Value by Matrix Material (2027-2032) & (USD Million)

Table 59. World Chromatography Membrane Stack Average Price by Matrix Material (2021-2026) & (US\$/kg)

Table 60. World Chromatography Membrane Stack Average Price by Matrix Material (2027-2032) & (US\$/kg)

Table 61. World Chromatography Membrane Stack Production Value by Operation Mode, (USD Million), 2021 & 2025 & 2032

Table 62. World Chromatography Membrane Stack Production by Operation Mode (2021-2026) & (kg)

Table 63. World Chromatography Membrane Stack Production by Operation Mode (2027-2032) & (kg)

Table 64. World Chromatography Membrane Stack Production Value by Operation Mode (2021-2026) & (USD Million)

Table 65. World Chromatography Membrane Stack Production Value by Operation Mode (2027-2032) & (USD Million)

Table 66. World Chromatography Membrane Stack Average Price by Operation Mode (2021-2026) & (US\$/kg)

Table 67. World Chromatography Membrane Stack Average Price by Operation Mode (2027-2032) & (US\$/kg)

Table 68. World Chromatography Membrane Stack Production Value by Target Biomolecule, (USD Million), 2021 & 2025 & 2032

Table 69. World Chromatography Membrane Stack Production by Target Biomolecule (2021-2026) & (kg)

Table 70. World Chromatography Membrane Stack Production by Target Biomolecule (2027-2032) & (kg)

Table 71. World Chromatography Membrane Stack Production Value by Target Biomolecule (2021-2026) & (USD Million)

Table 72. World Chromatography Membrane Stack Production Value by Target Biomolecule (2027-2032) & (USD Million)

Table 73. World Chromatography Membrane Stack Average Price by Target Biomolecule (2021-2026) & (US\$/kg)

Table 74. World Chromatography Membrane Stack Average Price by Target Biomolecule (2027-2032) & (US\$/kg)

Table 75. World Chromatography Membrane Stack Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Chromatography Membrane Stack Production by Application (2021-2026) & (kg)

Table 77. World Chromatography Membrane Stack Production by Application (2027-2032) & (kg)

Table 78. World Chromatography Membrane Stack Production Value by Application (2021-2026) & (USD Million)

Table 79. World Chromatography Membrane Stack Production Value by Application

(2027-2032) & (USD Million)

Table 80. World Chromatography Membrane Stack Average Price by Application
(2021-2026) & (US\$/kg)

Table 81. World Chromatography Membrane Stack Average Price by Application
(2027-2032) & (US\$/kg)

Table 82. Sartorius Basic Information, Manufacturing Base and Competitors

Table 83. Sartorius Major Business

Table 84. Sartorius Chromatography Membrane Stack Product and Services

Table 85. Sartorius Chromatography Membrane Stack Production (kg), Price (US\$/kg),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Sartorius Recent Developments/Updates

Table 87. Sartorius Competitive Strengths & Weaknesses

Table 88. Cytiva Basic Information, Manufacturing Base and Competitors

Table 89. Cytiva Major Business

Table 90. Cytiva Chromatography Membrane Stack Product and Services

Table 91. Cytiva Chromatography Membrane Stack Production (kg), Price (US\$/kg),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Cytiva Recent Developments/Updates

Table 93. Cytiva Competitive Strengths & Weaknesses

Table 94. Merck Basic Information, Manufacturing Base and Competitors

Table 95. Merck Major Business

Table 96. Merck Chromatography Membrane Stack Product and Services

Table 97. Merck Chromatography Membrane Stack Production (kg), Price (US\$/kg),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Merck Recent Developments/Updates

Table 99. Merck Competitive Strengths & Weaknesses

Table 100. Cobetter Basic Information, Manufacturing Base and Competitors

Table 101. Cobetter Major Business

Table 102. Cobetter Chromatography Membrane Stack Product and Services

Table 103. Cobetter Chromatography Membrane Stack Production (kg), Price (US\$/kg),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Cobetter Recent Developments/Updates

Table 105. Cobetter Competitive Strengths & Weaknesses

Table 106. Donaldson Life Sciences Basic Information, Manufacturing Base and
Competitors

Table 107. Donaldson Life Sciences Major Business

Table 108. Donaldson Life Sciences Chromatography Membrane Stack Product and
Services

Table 109. Donaldson Life Sciences Chromatography Membrane Stack Production (kg),

Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Donaldson Life Sciences Recent Developments/Updates

Table 111. Donaldson Life Sciences Competitive Strengths & Weaknesses

Table 112. Gore Basic Information, Manufacturing Base and Competitors

Table 113. Gore Major Business

Table 114. Gore Chromatography Membrane Stack Product and Services

Table 115. Gore Chromatography Membrane Stack Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Gore Recent Developments/Updates

Table 117. Gore Competitive Strengths & Weaknesses

Table 118. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors

Table 119. Thermo Fisher Scientific Major Business

Table 120. Thermo Fisher Scientific Chromatography Membrane Stack Product and Services

Table 121. Thermo Fisher Scientific Chromatography Membrane Stack Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Thermo Fisher Scientific Recent Developments/Updates

Table 123. Thermo Fisher Scientific Competitive Strengths & Weaknesses

Table 124. I3 Membrane Basic Information, Manufacturing Base and Competitors

Table 125. I3 Membrane Major Business

Table 126. I3 Membrane Chromatography Membrane Stack Product and Services

Table 127. I3 Membrane Chromatography Membrane Stack Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. I3 Membrane Recent Developments/Updates

Table 129. I3 Membrane Competitive Strengths & Weaknesses

Table 130. Global Key Players of Chromatography Membrane Stack Upstream (Raw Materials)

Table 131. Global Chromatography Membrane Stack Typical Customers

Table 132. Chromatography Membrane Stack Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Chromatography Membrane Stack Picture

Figure 2. World Chromatography Membrane Stack Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Chromatography Membrane Stack Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Chromatography Membrane Stack Production (2021-2032) & (kg)

Figure 5. World Chromatography Membrane Stack Average Price (2021-2032) & (US\$/kg)

Figure 6. World Chromatography Membrane Stack Production Value Market Share by Region (2021-2032)

Figure 7. World Chromatography Membrane Stack Production Market Share by Region (2021-2032)

Figure 8. North America Chromatography Membrane Stack Production (2021-2032) & (kg)

Figure 9. Europe Chromatography Membrane Stack Production (2021-2032) & (kg)

Figure 10. China Chromatography Membrane Stack Production (2021-2032) & (kg)

Figure 11. Japan Chromatography Membrane Stack Production (2021-2032) & (kg)

Figure 12. India Chromatography Membrane Stack Production (2021-2032) & (kg)

Figure 13. Southeast Asia Chromatography Membrane Stack Production (2021-2032) & (kg)

Figure 14. Chromatography Membrane Stack Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 17. World Chromatography Membrane Stack Consumption Market Share by Region (2021-2032)

Figure 18. United States Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 19. China Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 20. Europe Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 21. Japan Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 22. South Korea Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 23. ASEAN Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 24. India Chromatography Membrane Stack Consumption (2021-2032) & (kg)

Figure 25. Producer Shipments of Chromatography Membrane Stack by Manufacturer

Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Chromatography Membrane Stack Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Chromatography Membrane Stack Markets in 2025

Figure 28. United States VS China: Chromatography Membrane Stack Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Chromatography Membrane Stack Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Chromatography Membrane Stack Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Chromatography Membrane Stack Production Market Share 2025

Figure 32. China Based Manufacturers Chromatography Membrane Stack Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Chromatography Membrane Stack Production Market Share 2025

Figure 34. World Chromatography Membrane Stack Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Chromatography Membrane Stack Production Value Market Share by Type in 2025

Figure 36. Anion Exchange Membrane Stack

Figure 37. Cation Exchange Membrane Stack

Figure 38. Affinity Membrane Stack

Figure 39. Hydrophobic Interaction Membrane Stack

Figure 40. Mixed-Mode Membrane Stack

Figure 41. Other Membrane Stack

Figure 42. World Chromatography Membrane Stack Production Market Share by Type (2021-2032)

Figure 43. World Chromatography Membrane Stack Production Value Market Share by Type (2021-2032)

Figure 44. World Chromatography Membrane Stack Average Price by Type (2021-2032) & (US\$/kg)

Figure 45. World Chromatography Membrane Stack Production Value by Matrix Material, (USD Million), 2021 & 2025 & 2032

Figure 46. World Chromatography Membrane Stack Production Value Market Share by Matrix Material in 2025

Figure 47. Cellulose-Based Membrane Stack

Figure 48. Polyethersulfone Membrane Stack

- Figure 49. Polyacrylamide Hydrogel Membrane Stack
- Figure 50. ePTFE Composite Membrane Stack
- Figure 51. Nonwoven Hybrid Membrane Stack
- Figure 52. Other Matrix Membrane Stack
- Figure 53. World Chromatography Membrane Stack Production Market Share by Matrix Material (2021-2032)
- Figure 54. World Chromatography Membrane Stack Production Value Market Share by Matrix Material (2021-2032)
- Figure 55. World Chromatography Membrane Stack Average Price by Matrix Material (2021-2032) & (US\$/kg)
- Figure 56. World Chromatography Membrane Stack Production Value by Operation Mode, (USD Million), 2021 & 2025 & 2032
- Figure 57. World Chromatography Membrane Stack Production Value Market Share by Operation Mode in 2025
- Figure 58. Flow-Through Polishing Stack
- Figure 59. Bind-and-Elute Capture Stack
- Figure 60. Rapid Cycling Capture Stack
- Figure 61. Hybrid Clarification Stack
- Figure 62. Other Operation Mode Stack
- Figure 63. World Chromatography Membrane Stack Production Market Share by Operation Mode (2021-2032)
- Figure 64. World Chromatography Membrane Stack Production Value Market Share by Operation Mode (2021-2032)
- Figure 65. World Chromatography Membrane Stack Average Price by Operation Mode (2021-2032) & (US\$/kg)
- Figure 66. World Chromatography Membrane Stack Production Value by Target Biomolecule, (USD Million), 2021 & 2025 & 2032
- Figure 67. World Chromatography Membrane Stack Production Value Market Share by Target Biomolecule in 2025
- Figure 68. Protein and Antibody Stack
- Figure 69. Viral Vector and VLP Stack
- Figure 70. Plasmid DNA and mRNA Stack
- Figure 71. Oligonucleotide Stack
- Figure 72. Impurity Removal Stack
- Figure 73. Other Biomolecule Stack
- Figure 74. World Chromatography Membrane Stack Production Market Share by Target Biomolecule (2021-2032)
- Figure 75. World Chromatography Membrane Stack Production Value Market Share by Target Biomolecule (2021-2032)

Figure 76. World Chromatography Membrane Stack Average Price by Target Biomolecule (2021-2032) & (US\$/kg)

Figure 77. World Chromatography Membrane Stack Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 78. World Chromatography Membrane Stack Production Value Market Share by Application in 2025

Figure 79. Monoclonal Antibody Polishing

Figure 80. Viral Vector Purification

Figure 81. Plasmid and mRNA Purification

Figure 82. Vaccine and VLP Processing

Figure 83. Impurity and Endotoxin Removal

Figure 84. Process Development and Screening

Figure 85. World Chromatography Membrane Stack Production Market Share by Application (2021-2032)

Figure 86. World Chromatography Membrane Stack Production Value Market Share by Application (2021-2032)

Figure 87. World Chromatography Membrane Stack Average Price by Application (2021-2032) & (US\$/kg)

Figure 88. Chromatography Membrane Stack Industry Chain

Figure 89. Chromatography Membrane Stack Procurement Model

Figure 90. Chromatography Membrane Stack Sales Model

Figure 91. Chromatography Membrane Stack Sales Channels, Direct Sales, and Distribution

Figure 92. Methodology

Figure 93. Research Process and Data Source

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