

Global Blood Purification Membrane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Blood Purification Membrane market size is expected to reach \$ 1608 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Blood Purification Membrane refers to the functional semipermeable membrane used as the core separation medium in extracorporeal blood purification, primarily in hollow-fiber dialyzers and related blood purification filters. Its principal function is to achieve selective transport or removal of uremic solutes, excess water and other target substances through diffusion, convection and, for certain membrane materials, adsorption, while controlling the loss of essential macromolecules such as albumin. Commercial Blood Purification Membrane products are differentiated by polymer chemistry, hollow-fiber structure, pore-size distribution, membrane thickness, surface characteristics, permeability, molecular-weight cut-off, biocompatibility and sterilization condition. Main material platforms include polysulfone, polyethersulfone, cellulose triacetate, PMMA, PAN/AN69, PEPA and EVAL, while product performance ranges from conventional low- and medium-flux membranes to high-flux, medium cut-off and high cut-off designs. This study focuses on Blood Purification Membrane products used in hospital hemodialysis units, independent dialysis centers and home dialysis environments.

Key Findings

Synthetic membranes remain the core platform for mainstream blood purification membranes

High-flux and sharper cut-off designs are advancing product differentiation

Middle-molecule clearance and albumin retention define next-generation performance priorities

Institutional dialysis settings remain the principal downstream demand base

Material chemistry and hollow-fiber engineering shape competitive differentiation

Market Trends

The Blood Purification Membrane market is moving from basic solute-removal capability toward more precisely engineered separation performance. High-flux membranes remain an important commercial platform, while medium cut-off, sharp cut-off and other enhanced-permeability technologies are extending clearance toward larger middle molecules without proportionally increasing albumin loss. At the same time, membrane development is becoming increasingly multidimensional: manufacturers are optimizing polymer formulation, asymmetric pore architecture, fiber wall thickness, hydrophilicity, surface modification and blood compatibility rather than relying solely on nominal flux classification. Polysulfone and polyethersulfone continue to support broad product portfolios, while CTA, PMMA, PEPA and other differentiated materials maintain specific positions based on biocompatibility, adsorption characteristics or transport profiles. Product development is therefore increasingly centered on balancing clearance efficiency, selectivity, albumin retention, hemocompatibility and treatment stability, with membrane engineering becoming a major determinant of clinical positioning and product differentiation.

Market Dynamics

Drivers

Demand for Blood Purification Membrane is fundamentally supported by the recurring nature of maintenance hemodialysis and the continuous requirement for disposable dialyzers and filtration components. Beyond patient volume, the market is increasingly influenced by higher expectations for dialysis adequacy and broader toxin-removal performance. Clinical product development has moved beyond efficient removal of

small solutes toward improved removal of middle and larger-middle molecules, creating demand for more precisely controlled membrane pore structures and permeability profiles. Expansion of high-flux dialysis, hemodiafiltration and other enhanced blood purification approaches also raises the technical requirements placed on membrane materials. At the manufacturing level, continuous improvements in hollow-fiber spinning, polymer blending and membrane surface engineering enable suppliers to improve performance while maintaining consistency at commercial production scale, supporting replacement and upgrading of established membrane platforms.

Restraints

Blood Purification Membrane manufacturing has relatively high technical and quality-control barriers because changes in polymer composition, spinning conditions, pore-size distribution or surface characteristics can affect clearance, albumin loss, blood compatibility and filtration stability. Manufacturers therefore need to maintain tight process control from polymer preparation and hollow-fiber spinning through module assembly and sterilization. More advanced permeability is not automatically equivalent to better overall performance, as higher transport capacity must be balanced against unwanted macromolecule loss and treatment safety. Product development also faces qualification and regulatory requirements associated with medical devices and blood-contacting materials, which can lengthen commercialization cycles. In addition, established dialysis systems and clinical operating protocols create switching costs, meaning new membrane technologies generally require both measurable performance differentiation and reliable manufacturing consistency before achieving broad adoption.

Opportunities

The principal opportunity lies in the transition from conventional flux-based differentiation toward membranes engineered around defined molecular-removal windows. Medium cut-off, sharp cut-off, super high-flux and related technologies demonstrate increasing industry attention to removal of larger middle molecules while preserving clinically important proteins. This creates opportunities for membrane suppliers capable of controlling pore distribution more precisely and integrating selective transport with improved hemocompatibility. Specialty membrane materials also retain opportunity where adsorption, biocompatibility or unique polymer structures provide functional differentiation beyond standard polysulfone platforms. Another opportunity is vertical integration: companies with internal capabilities in polymer formulation, hollow-fiber spinning, membrane modification and dialyzer assembly can shorten development

cycles and more closely coordinate membrane performance with finished-device design. Chinese manufacturers with integrated membrane-spinning and assembly capabilities may benefit from continued localization of high-performance dialysis consumables.

Challenges

The major long-term challenge is converting incremental membrane improvements into clinically meaningful and commercially defensible differentiation. Blood Purification Membrane performance is determined by multiple interacting parameters, and improvements in clearance must be balanced against albumin retention, blood compatibility, mechanical stability and reproducibility. Competition is also moving toward increasingly sophisticated proprietary fiber structures and membrane formulations, raising R&D and process-development requirements. At the same time, dialysis consumables are used repeatedly and at large volume, making manufacturing yield, quality consistency and cost control important alongside clinical performance. New membrane technologies must therefore demonstrate not only differentiated separation characteristics but also scalable production, sterilization compatibility and stable performance across treatment conditions. The need to satisfy both clinical and economic requirements can slow the adoption of technologies whose performance gains are insufficiently differentiated from established high-flux products.

Industry Chain Analysis

The upstream value base of the Blood Purification Membrane industry consists primarily of medical-grade polymer resins and cellulose derivatives, membrane-forming solvents and additives, hydrophilic modifiers, potting and housing materials, together with precision hollow-fiber spinning, extrusion and inspection equipment. Polymer purity, molecular-weight distribution, formulation stability and raw-material consistency have direct influence on membrane morphology and production yield. In the midstream, value creation is concentrated in polymer formulation, spinning solution preparation, hollow-fiber extrusion, phase separation, pore-structure control, surface modification, washing, drying or wet preservation, module assembly and sterilization. These steps determine permeability, selectivity, blood compatibility and manufacturing consistency. Downstream, membranes are integrated into dialyzers and related blood purification filters and ultimately consumed through hospital dialysis units, independent dialysis centers and home dialysis channels. Compared with standardized structural

components, a greater proportion of technological differentiation is concentrated in membrane formulation, fiber formation and pore-control capabilities; manufacturers that integrate membrane spinning with dialyzer assembly can more directly optimize membrane properties, housing design and overall clearance performance as a single system.

Segment Insights

By membrane material, synthetic polymer membranes constitute the main technology platform, with polysulfone and polyethersulfone supporting a broad range of commercial hemodialysis products because they can be engineered across different permeability and clearance levels. The market nevertheless remains technologically diversified: cellulose triacetate emphasizes a differentiated blood-contact material route, PMMA combines filtration with characteristic protein adsorption, and PEPA uses a polymer-alloy structure to achieve differentiated transport and endotoxin-retention characteristics. These specialty materials therefore compete less through simple material substitution and more through specific performance profiles.

By permeability and cut-off characteristics, the competitive focus is progressively shifting toward high-flux and more selectively engineered membrane structures. Low- and medium-flux products continue to address established treatment requirements, while high-flux products provide stronger small- and middle-molecule clearance. Medium cut-off, high cut-off and newer sharp cut-off designs extend the technical frontier by narrowing the balance between enhanced removal of larger molecules and retention of albumin. Sterilization method and dry-versus-wet product configuration represent additional product-engineering dimensions because they affect manufacturing processes, storage, handling and membrane conditioning. These segmentation dimensions increasingly interact rather than operate independently, making membrane design a multi-parameter optimization problem.

Downstream Market Opportunities

Hospital hemodialysis units and independent dialysis centers remain the principal downstream environments for Blood Purification Membrane consumption because recurring treatments generate continuous demand for single-use dialyzers and related filtration products. In these institutional settings, purchasing decisions increasingly balance clearance performance, treatment compatibility, operating convenience, supply reliability and overall consumable economics. Home dialysis represents a smaller but

strategically relevant application direction, where standardized preparation, reliable membrane performance and user-friendly consumable design become particularly important. Across downstream settings, the opportunity is gradually shifting from supplying a generic filtration medium toward matching membrane characteristics to specific therapy objectives, including conventional hemodialysis, high-flux treatment and broader middle-molecule removal. Suppliers capable of linking membrane performance with complete dialyzer design and treatment protocols are therefore positioned to capture more value than suppliers competing primarily on basic membrane capacity.

Regional Insights

Regional development of the Blood Purification Membrane industry reflects differences in dialysis infrastructure, local manufacturing capability and membrane technology accumulation. Japan has a particularly diversified technology base across polysulfone, polyethersulfone, CTA, PMMA and PEPA membrane platforms, supported by multiple established manufacturers with proprietary membrane technologies. Europe combines large integrated dialysis-system suppliers with specialized membrane and filtration capabilities, while the North American market remains an important commercialization environment for advanced high-flux and expanded-hemodialysis technologies. China is increasingly characterized by localization of hollow-fiber membrane spinning and dialyzer assembly, with domestic suppliers developing integrated production capabilities rather than relying solely on imported membrane components. As a result, regional competition is becoming less dependent on simple production capacity and more dependent on membrane formulation, manufacturing consistency, clinical positioning and integration with local dialysis delivery systems.

Competitive Landscape Analysis

Competition in Blood Purification Membrane is technology-led and closely linked to vertical integration in the dialysis consumables industry. Fresenius Medical Care, Asahi Kasei Medical, Nikkiso, Nipro, Toray, B. Braun, Vantive and SB-KAWASUMI participate through differentiated dialyzer and membrane platforms, while MEDICA contributes specialized hollow-fiber membrane capabilities and WEGO represents an increasingly integrated Chinese supply model. The competitive basis is not limited to membrane material choice: companies differentiate through polymer formulation, proprietary hollow-fiber structures, permeability profiles, surface engineering, adsorption characteristics, albumin retention, sterilization design and integration between membrane and dialyzer

architecture. Established suppliers benefit from accumulated membrane-processing expertise, validated manufacturing processes and broad dialysis-product portfolios, while newer product development is concentrating on high-flux, MCO, sharp cut-off and other advanced separation profiles. Chinese suppliers are strengthening internal membrane-spinning and assembly capabilities, increasing competition in localized supply and manufacturing integration. The market therefore exhibits a combination of established global dialysis platforms, specialized membrane technologies and emerging vertically integrated regional manufacturers rather than a single standardized technology route.

Report Scope

This report studies the global Blood Purification Membrane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Blood Purification Membrane 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 Blood Purification Membrane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Blood Purification Membrane total production and demand, 2021-2032, (K Sqm)

Global Blood Purification Membrane total production value, 2021-2032, (USD Million)

Global Blood Purification Membrane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Blood Purification Membrane consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Blood Purification Membrane domestic production, consumption, key domestic manufacturers and share

Global Blood Purification Membrane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Blood Purification Membrane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Blood Purification Membrane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Blood Purification Membrane 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 Fresenius, Vantive Health, Nipro, Asahi Kasei, B. Braun, Wego, Toray, Toyobo, 3M, Kaneka Corporation, 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 Blood Purification Membrane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Blood Purification Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Blood Purification Membrane Market, Segmentation by Type:

Polysulfone (PSf) Membrane

Polyethersulfone (PES) Membrane

Other

Global Blood Purification Membrane Market, Segmentation by Membrane Permeability:

Low-Flux Membrane

Medium-Flux Membrane

High-Flux Membrane

Global Blood Purification Membrane Market, Segmentation by Membrane Storage Condition:

Dry-Type Membrane

Wet-Type Membrane

Global Blood Purification Membrane Market, Segmentation by Application:

Hemodialyzer

Hemofilter

Hemoperfusion Cartridge

Other

Companies Profiled:

Fresenius

Vantive Health

Nipro

Asahi Kasei

B. Braun

Wego

Toray

Toyobo

3M

Kaneka Corporation

Kuraray

Mitsubishi Chemical

Evonik Industries

Sartorius

Key Questions Answered

1. How big is the global Blood Purification Membrane market?
2. What is the demand of the global Blood Purification Membrane market?
3. What is the year over year growth of the global Blood Purification Membrane market?
4. What is the total value of the global Blood Purification Membrane market?
5. Who are the Major Players in the global Blood Purification Membrane market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Blood Purification Membrane Demand (2021-2032)
- 2.2 World Blood Purification Membrane Consumption by Region
 - 2.2.1 World Blood Purification Membrane Consumption by Region (2021-2026)
 - 2.2.2 World Blood Purification Membrane Consumption Forecast by Region (2027-2032)
- 2.3 United States Blood Purification Membrane Consumption (2021-2032)
- 2.4 China Blood Purification Membrane Consumption (2021-2032)
- 2.5 Europe Blood Purification Membrane Consumption (2021-2032)
- 2.6 Japan Blood Purification Membrane Consumption (2021-2032)
- 2.7 South Korea Blood Purification Membrane Consumption (2021-2032)
- 2.8 ASEAN Blood Purification Membrane Consumption (2021-2032)
- 2.9 India Blood Purification Membrane Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Blood Purification Membrane Production Value by Manufacturer (2021-2026)
- 3.2 World Blood Purification Membrane Production by Manufacturer (2021-2026)
- 3.3 World Blood Purification Membrane Average Price by Manufacturer (2021-2026)
- 3.4 Blood Purification Membrane Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Blood Purification Membrane Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Blood Purification Membrane in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Blood Purification Membrane in 2025
- 3.6 Blood Purification Membrane Market: Overall Company Footprint Analysis
 - 3.6.1 Blood Purification Membrane Market: Region Footprint
 - 3.6.2 Blood Purification Membrane Market: Company Product Type Footprint
 - 3.6.3 Blood Purification Membrane 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: Blood Purification Membrane Production Value Comparison
 - 4.1.1 United States VS China: Blood Purification Membrane Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Blood Purification Membrane Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Blood Purification Membrane Production Comparison
 - 4.2.1 United States VS China: Blood Purification Membrane Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Blood Purification Membrane Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Blood Purification Membrane Consumption Comparison
 - 4.3.1 United States VS China: Blood Purification Membrane Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Blood Purification Membrane Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Blood Purification Membrane Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Blood Purification Membrane Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Blood Purification Membrane Production Value (2021-2026)

4.4.3 United States Based Manufacturers Blood Purification Membrane Production (2021-2026)

4.5 China Based Blood Purification Membrane Manufacturers and Market Share

4.5.1 China Based Blood Purification Membrane Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Blood Purification Membrane Production Value (2021-2026)

4.5.3 China Based Manufacturers Blood Purification Membrane Production (2021-2026)

4.6 Rest of World Based Blood Purification Membrane Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Blood Purification Membrane Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Blood Purification Membrane Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Blood Purification Membrane Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Polysulfone (PSf) Membrane

5.2.2 Polyethersulfone (PES) Membrane

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Blood Purification Membrane Production by Type (2021-2032)

5.3.2 World Blood Purification Membrane Production Value by Type (2021-2032)

5.3.3 World Blood Purification Membrane Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MEMBRANE PERMEABILITY

6.1 World Blood Purification Membrane Market Size Overview by Membrane Permeability: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Membrane Permeability

6.2.1 Low-Flux Membrane

6.2.2 Medium-Flux Membrane

6.2.3 High-Flux Membrane

6.3 Market Segment by Membrane Permeability

6.3.1 World Blood Purification Membrane Production by Membrane Permeability (2021-2032)

6.3.2 World Blood Purification Membrane Production Value by Membrane Permeability (2021-2032)

6.3.3 World Blood Purification Membrane Average Price by Membrane Permeability (2021-2032)

7 MARKET ANALYSIS BY MEMBRANE STORAGE CONDITION

7.1 World Blood Purification Membrane Market Size Overview by Membrane Storage Condition: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Membrane Storage Condition

7.2.1 Dry-Type Membrane

7.2.2 Wet-Type Membrane

7.3 Market Segment by Membrane Storage Condition

7.3.1 World Blood Purification Membrane Production by Membrane Storage Condition (2021-2032)

7.3.2 World Blood Purification Membrane Production Value by Membrane Storage Condition (2021-2032)

7.3.3 World Blood Purification Membrane Average Price by Membrane Storage Condition (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Blood Purification Membrane Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Hemodialyzer

8.2.2 Hemofilter

8.2.3 Hemoperfusion Cartridge

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Blood Purification Membrane Production by Application (2021-2032)

8.3.2 World Blood Purification Membrane Production Value by Application (2021-2032)

8.3.3 World Blood Purification Membrane Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Fresenius

9.1.1 Fresenius Details

9.1.2 Fresenius Major Business

9.1.3 Fresenius Blood Purification Membrane Product and Services

9.1.4 Fresenius Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Fresenius Recent Developments/Updates

9.1.6 Fresenius Competitive Strengths & Weaknesses

9.2 Vantive Health

9.2.1 Vantive Health Details

9.2.2 Vantive Health Major Business

9.2.3 Vantive Health Blood Purification Membrane Product and Services

9.2.4 Vantive Health Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Vantive Health Recent Developments/Updates

9.2.6 Vantive Health Competitive Strengths & Weaknesses

9.3 Nipro

9.3.1 Nipro Details

9.3.2 Nipro Major Business

9.3.3 Nipro Blood Purification Membrane Product and Services

9.3.4 Nipro Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Nipro Recent Developments/Updates

9.3.6 Nipro Competitive Strengths & Weaknesses

9.4 Asahi Kasei

9.4.1 Asahi Kasei Details

9.4.2 Asahi Kasei Major Business

9.4.3 Asahi Kasei Blood Purification Membrane Product and Services

9.4.4 Asahi Kasei Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Asahi Kasei Recent Developments/Updates

9.4.6 Asahi Kasei Competitive Strengths & Weaknesses

9.5 B. Braun

9.5.1 B. Braun Details

9.5.2 B. Braun Major Business

9.5.3 B. Braun Blood Purification Membrane Product and Services

9.5.4 B. Braun Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 B. Braun Recent Developments/Updates

9.5.6 B. Braun Competitive Strengths & Weaknesses

9.6 Wego

9.6.1 Wego Details

9.6.2 Wego Major Business

9.6.3 Wego Blood Purification Membrane Product and Services

9.6.4 Wego Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Wego Recent Developments/Updates

9.6.6 Wego Competitive Strengths & Weaknesses

9.7 Toray

9.7.1 Toray Details

9.7.2 Toray Major Business

9.7.3 Toray Blood Purification Membrane Product and Services

9.7.4 Toray Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Toray Recent Developments/Updates

9.7.6 Toray Competitive Strengths & Weaknesses

9.8 Toyobo

9.8.1 Toyobo Details

9.8.2 Toyobo Major Business

9.8.3 Toyobo Blood Purification Membrane Product and Services

9.8.4 Toyobo Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Toyobo Recent Developments/Updates

9.8.6 Toyobo Competitive Strengths & Weaknesses

9.9 3M

9.9.1 3M Details

9.9.2 3M Major Business

9.9.3 3M Blood Purification Membrane Product and Services

9.9.4 3M Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 3M Recent Developments/Updates

9.9.6 3M Competitive Strengths & Weaknesses

9.10 Kaneka Corporation

9.10.1 Kaneka Corporation Details

9.10.2 Kaneka Corporation Major Business

9.10.3 Kaneka Corporation Blood Purification Membrane Product and Services

9.10.4 Kaneka Corporation Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Kaneka Corporation Recent Developments/Updates

9.10.6 Kaneka Corporation Competitive Strengths & Weaknesses

9.11 Kuraray

9.11.1 Kuraray Details

9.11.2 Kuraray Major Business

9.11.3 Kuraray Blood Purification Membrane Product and Services

9.11.4 Kuraray Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Kuraray Recent Developments/Updates

9.11.6 Kuraray Competitive Strengths & Weaknesses

9.12 Mitsubishi Chemical

9.12.1 Mitsubishi Chemical Details

9.12.2 Mitsubishi Chemical Major Business

9.12.3 Mitsubishi Chemical Blood Purification Membrane Product and Services

9.12.4 Mitsubishi Chemical Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Mitsubishi Chemical Recent Developments/Updates

9.12.6 Mitsubishi Chemical Competitive Strengths & Weaknesses

9.13 Evonik Industries

9.13.1 Evonik Industries Details

9.13.2 Evonik Industries Major Business

9.13.3 Evonik Industries Blood Purification Membrane Product and Services

9.13.4 Evonik Industries Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Evonik Industries Recent Developments/Updates

9.13.6 Evonik Industries Competitive Strengths & Weaknesses

9.14 Sartorius

9.14.1 Sartorius Details

9.14.2 Sartorius Major Business

9.14.3 Sartorius Blood Purification Membrane Product and Services

9.14.4 Sartorius Blood Purification Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Sartorius Recent Developments/Updates

9.14.6 Sartorius Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Blood Purification Membrane Industry Chain

10.2 Blood Purification Membrane Upstream Analysis

10.2.1 Blood Purification Membrane Core Raw Materials

10.2.2 Main Manufacturers of Blood Purification Membrane Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Blood Purification Membrane Production Mode

10.6 Blood Purification Membrane Procurement Model

10.7 Blood Purification Membrane Industry Sales Model and Sales Channels

10.7.1 Blood Purification Membrane Sales Model

10.7.2 Blood Purification Membrane Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

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

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

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

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

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

Table 6. World Blood Purification Membrane Production by Region (2021-2026) & (K Sqm)

Table 7. World Blood Purification Membrane Production by Region (2027-2032) & (K Sqm)

Table 8. World Blood Purification Membrane Production Market Share by Region (2021-2026)

Table 9. World Blood Purification Membrane Production Market Share by Region (2027-2032)

Table 10. World Blood Purification Membrane Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Blood Purification Membrane Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Blood Purification Membrane Major Market Trends

Table 13. World Blood Purification Membrane Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sqm)

Table 14. World Blood Purification Membrane Consumption by Region (2021-2026) & (K Sqm)

Table 15. World Blood Purification Membrane Consumption Forecast by Region (2027-2032) & (K Sqm)

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

Table 17. Production Value Market Share of Key Blood Purification Membrane Producers in 2025

Table 18. World Blood Purification Membrane Production by Manufacturer (2021-2026) & (K Sqm)

Table 19. Production Market Share of Key Blood Purification Membrane Producers in 2025

Table 20. World Blood Purification Membrane Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Blood Purification Membrane Company Evaluation Quadrant

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

Table 23. Head Office and Blood Purification Membrane Production Site of Key Manufacturer

Table 24. Blood Purification Membrane Market: Company Product Type Footprint

Table 25. Blood Purification Membrane Market: Company Product Application Footprint

Table 26. Blood Purification Membrane Competitive Factors

Table 27. Blood Purification Membrane New Entrant and Capacity Expansion Plans

Table 28. Blood Purification Membrane Mergers & Acquisitions Activity

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

Table 30. United States VS China Blood Purification Membrane Production Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 31. United States VS China Blood Purification Membrane Consumption Comparison, (2021 & 2025 & 2032) & (K Sqm)

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

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

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

Table 35. United States Based Manufacturers Blood Purification Membrane Production (2021-2026) & (K Sqm)

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

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

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

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

Table 40. China Based Manufacturers Blood Purification Membrane Production, (2021-2026) & (K Sqm)

Table 41. China Based Manufacturers Blood Purification Membrane Production Market

Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers Blood Purification Membrane Production, (2021-2026) & (K Sqm)

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

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

Table 48. World Blood Purification Membrane Production by Type (2021-2026) & (K Sqm)

Table 49. World Blood Purification Membrane Production by Type (2027-2032) & (K Sqm)

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

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

Table 52. World Blood Purification Membrane Average Price by Type (2021-2026) & (US\$/Sq m)

Table 53. World Blood Purification Membrane Average Price by Type (2027-2032) & (US\$/Sq m)

Table 54. World Blood Purification Membrane Production Value by Membrane Permeability, (USD Million), 2021 & 2025 & 2032

Table 55. World Blood Purification Membrane Production by Membrane Permeability (2021-2026) & (K Sqm)

Table 56. World Blood Purification Membrane Production by Membrane Permeability (2027-2032) & (K Sqm)

Table 57. World Blood Purification Membrane Production Value by Membrane Permeability (2021-2026) & (USD Million)

Table 58. World Blood Purification Membrane Production Value by Membrane Permeability (2027-2032) & (USD Million)

Table 59. World Blood Purification Membrane Average Price by Membrane Permeability (2021-2026) & (US\$/Sq m)

Table 60. World Blood Purification Membrane Average Price by Membrane Permeability (2027-2032) & (US\$/Sq m)

Table 61. World Blood Purification Membrane Production Value by Membrane Storage Condition, (USD Million), 2021 & 2025 & 2032

Table 62. World Blood Purification Membrane Production by Membrane Storage Condition (2021-2026) & (K Sqm)

Table 63. World Blood Purification Membrane Production by Membrane Storage Condition (2027-2032) & (K Sqm)

Table 64. World Blood Purification Membrane Production Value by Membrane Storage Condition (2021-2026) & (USD Million)

Table 65. World Blood Purification Membrane Production Value by Membrane Storage Condition (2027-2032) & (USD Million)

Table 66. World Blood Purification Membrane Average Price by Membrane Storage Condition (2021-2026) & (US\$/Sq m)

Table 67. World Blood Purification Membrane Average Price by Membrane Storage Condition (2027-2032) & (US\$/Sq m)

Table 68. World Blood Purification Membrane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Blood Purification Membrane Production by Application (2021-2026) & (K Sqm)

Table 70. World Blood Purification Membrane Production by Application (2027-2032) & (K Sqm)

Table 71. World Blood Purification Membrane Production Value by Application (2021-2026) & (USD Million)

Table 72. World Blood Purification Membrane Production Value by Application (2027-2032) & (USD Million)

Table 73. World Blood Purification Membrane Average Price by Application (2021-2026) & (US\$/Sq m)

Table 74. World Blood Purification Membrane Average Price by Application (2027-2032) & (US\$/Sq m)

Table 75. Fresenius Basic Information, Manufacturing Base and Competitors

Table 76. Fresenius Major Business

Table 77. Fresenius Blood Purification Membrane Product and Services

Table 78. Fresenius Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Fresenius Recent Developments/Updates

Table 80. Fresenius Competitive Strengths & Weaknesses

Table 81. Vantive Health Basic Information, Manufacturing Base and Competitors

Table 82. Vantive Health Major Business

Table 83. Vantive Health Blood Purification Membrane Product and Services

Table 84. Vantive Health Blood Purification Membrane Production (K Sqm), Price

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

Table 85. Vantive Health Recent Developments/Updates

Table 86. Vantive Health Competitive Strengths & Weaknesses

Table 87. Nipro Basic Information, Manufacturing Base and Competitors

Table 88. Nipro Major Business

Table 89. Nipro Blood Purification Membrane Product and Services

Table 90. Nipro Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Nipro Recent Developments/Updates

Table 92. Nipro Competitive Strengths & Weaknesses

Table 93. Asahi Kasei Basic Information, Manufacturing Base and Competitors

Table 94. Asahi Kasei Major Business

Table 95. Asahi Kasei Blood Purification Membrane Product and Services

Table 96. Asahi Kasei Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Asahi Kasei Recent Developments/Updates

Table 98. Asahi Kasei Competitive Strengths & Weaknesses

Table 99. B. Braun Basic Information, Manufacturing Base and Competitors

Table 100. B. Braun Major Business

Table 101. B. Braun Blood Purification Membrane Product and Services

Table 102. B. Braun Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. B. Braun Recent Developments/Updates

Table 104. B. Braun Competitive Strengths & Weaknesses

Table 105. Wego Basic Information, Manufacturing Base and Competitors

Table 106. Wego Major Business

Table 107. Wego Blood Purification Membrane Product and Services

Table 108. Wego Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Wego Recent Developments/Updates

Table 110. Wego Competitive Strengths & Weaknesses

Table 111. Toray Basic Information, Manufacturing Base and Competitors

Table 112. Toray Major Business

Table 113. Toray Blood Purification Membrane Product and Services

Table 114. Toray Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Toray Recent Developments/Updates

Table 116. Toray Competitive Strengths & Weaknesses

Table 117. Toyobo Basic Information, Manufacturing Base and Competitors
Table 118. Toyobo Major Business
Table 119. Toyobo Blood Purification Membrane Product and Services
Table 120. Toyobo Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Toyobo Recent Developments/Updates
Table 122. Toyobo Competitive Strengths & Weaknesses
Table 123. 3M Basic Information, Manufacturing Base and Competitors
Table 124. 3M Major Business
Table 125. 3M Blood Purification Membrane Product and Services
Table 126. 3M Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. 3M Recent Developments/Updates
Table 128. 3M Competitive Strengths & Weaknesses
Table 129. Kaneka Corporation Basic Information, Manufacturing Base and Competitors
Table 130. Kaneka Corporation Major Business
Table 131. Kaneka Corporation Blood Purification Membrane Product and Services
Table 132. Kaneka Corporation Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Kaneka Corporation Recent Developments/Updates
Table 134. Kaneka Corporation Competitive Strengths & Weaknesses
Table 135. Kuraray Basic Information, Manufacturing Base and Competitors
Table 136. Kuraray Major Business
Table 137. Kuraray Blood Purification Membrane Product and Services
Table 138. Kuraray Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Kuraray Recent Developments/Updates
Table 140. Kuraray Competitive Strengths & Weaknesses
Table 141. Mitsubishi Chemical Basic Information, Manufacturing Base and Competitors
Table 142. Mitsubishi Chemical Major Business
Table 143. Mitsubishi Chemical Blood Purification Membrane Product and Services
Table 144. Mitsubishi Chemical Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Mitsubishi Chemical Recent Developments/Updates
Table 146. Mitsubishi Chemical Competitive Strengths & Weaknesses
Table 147. Evonik Industries Basic Information, Manufacturing Base and Competitors
Table 148. Evonik Industries Major Business

Table 149. Evonik Industries Blood Purification Membrane Product and Services

Table 150. Evonik Industries Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Evonik Industries Recent Developments/Updates

Table 152. Evonik Industries Competitive Strengths & Weaknesses

Table 153. Sartorius Basic Information, Manufacturing Base and Competitors

Table 154. Sartorius Major Business

Table 155. Sartorius Blood Purification Membrane Product and Services

Table 156. Sartorius Blood Purification Membrane Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Sartorius Recent Developments/Updates

Table 158. Sartorius Competitive Strengths & Weaknesses

Table 159. Global Key Players of Blood Purification Membrane Upstream (Raw Materials)

Table 160. Global Blood Purification Membrane Typical Customers

Table 161. Blood Purification Membrane Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Blood Purification Membrane Picture

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

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

Figure 4. World Blood Purification Membrane Production (2021-2032) & (K Sqm)

Figure 5. World Blood Purification Membrane Average Price (2021-2032) & (US\$/Sq m)

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

Figure 7. World Blood Purification Membrane Production Market Share by Region (2021-2032)

Figure 8. North America Blood Purification Membrane Production (2021-2032) & (K Sqm)

Figure 9. Europe Blood Purification Membrane Production (2021-2032) & (K Sqm)

Figure 10. China Blood Purification Membrane Production (2021-2032) & (K Sqm)

Figure 11. Japan Blood Purification Membrane Production (2021-2032) & (K Sqm)

Figure 12. India Blood Purification Membrane Production (2021-2032) & (K Sqm)

Figure 13. Southeast Asia Blood Purification Membrane Production (2021-2032) & (K Sqm)

Figure 14. Blood Purification Membrane Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 17. World Blood Purification Membrane Consumption Market Share by Region (2021-2032)

Figure 18. United States Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 19. China Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 20. Europe Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 21. Japan Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 22. South Korea Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 23. ASEAN Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 24. India Blood Purification Membrane Consumption (2021-2032) & (K Sqm)

Figure 25. Producer Shipments of Blood Purification Membrane by Manufacturer Revenue (\$MM) and Market Share (%): 2025

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

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

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

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

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

Figure 31. United States Based Manufacturers Blood Purification Membrane Production Market Share 2025

Figure 32. China Based Manufacturers Blood Purification Membrane Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Blood Purification Membrane Production Market Share 2025

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

Figure 35. World Blood Purification Membrane Production Value Market Share by Type in 2025

Figure 36. Polysulfone (PSf) Membrane

Figure 37. Polyethersulfone (PES) Membrane

Figure 38. Other

Figure 39. World Blood Purification Membrane Production Market Share by Type (2021-2032)

Figure 40. World Blood Purification Membrane Production Value Market Share by Type (2021-2032)

Figure 41. World Blood Purification Membrane Average Price by Type (2021-2032) & (US\$/Sq m)

Figure 42. World Blood Purification Membrane Production Value by Membrane Permeability, (USD Million), 2021 & 2025 & 2032

Figure 43. World Blood Purification Membrane Production Value Market Share by Membrane Permeability in 2025

Figure 44. Low-Flux Membrane

Figure 45. Medium-Flux Membrane

Figure 46. High-Flux Membrane

Figure 47. World Blood Purification Membrane Production Market Share by Membrane Permeability (2021-2032)

Figure 48. World Blood Purification Membrane Production Value Market Share by

Membrane Permeability (2021-2032)

Figure 49. World Blood Purification Membrane Average Price by Membrane Permeability (2021-2032) & (US\$/Sq m)

Figure 50. World Blood Purification Membrane Production Value by Membrane Storage Condition, (USD Million), 2021 & 2025 & 2032

Figure 51. World Blood Purification Membrane Production Value Market Share by Membrane Storage Condition in 2025

Figure 52. Dry-Type Membrane

Figure 53. Wet-Type Membrane

Figure 54. World Blood Purification Membrane Production Market Share by Membrane Storage Condition (2021-2032)

Figure 55. World Blood Purification Membrane Production Value Market Share by Membrane Storage Condition (2021-2032)

Figure 56. World Blood Purification Membrane Average Price by Membrane Storage Condition (2021-2032) & (US\$/Sq m)

Figure 57. World Blood Purification Membrane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Blood Purification Membrane Production Value Market Share by Application in 2025

Figure 59. Hemodialyzer

Figure 60. Hemofilter

Figure 61. Hemoperfusion Cartridge

Figure 62. Other

Figure 63. World Blood Purification Membrane Production Market Share by Application (2021-2032)

Figure 64. World Blood Purification Membrane Production Value Market Share by Application (2021-2032)

Figure 65. World Blood Purification Membrane Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 66. Blood Purification Membrane Industry Chain

Figure 67. Blood Purification Membrane Procurement Model

Figure 68. Blood Purification Membrane Sales Model

Figure 69. Blood Purification Membrane Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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