

Global Chiral Membrane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chiral Membrane market size is expected to reach \$ 73.22 million by 2032, rising at a market growth of 21.6% CAGR during the forecast period (2026-2032).

Chiral membranes refer to membrane-based separation materials with enantioselective recognition capability, typically constructed from polymeric, inorganic, or hybrid matrices functionalized with chiral selectors (e.g., polysaccharide derivatives, cyclodextrins, chiral small molecules, or metal coordination structures), enabling differential transport behavior (e.g., diffusion or solution-diffusion mechanisms) between enantiomers, thereby achieving enantioselective permeation and separation, mainly applied in chiral separation and process intensification systems.

Pricing sits at the higher end of functional membranes (USD 500–2,000/m²), with mixed-matrix and biomimetic membranes commanding premium pricing and gradually dominating value contribution; gross margins are relatively high, with functional polymer membranes at 40–60% and advanced chiral-selective membranes reaching 60–75%; downstream demand is led by pharmaceutical chiral separation, with increasing adoption in continuous manufacturing and process intensification; upstream relies on high-performance polymers, chiral ligands, and MOF/COF materials, while downstream is integrated into fine chemical and pharmaceutical continuous processing systems; the industry remains fragmented without a clear oligopoly, characterized by parallel development from material platform companies and research-driven entities, though stability of enantioselectivity and industrial validation cycles remain key uncertainties; overall, the sector is transitioning from technology introduction to early industrialization, driven by cost reduction and continuous manufacturing, with structural features of dispersed high-end technologies and application-driven differentiation.

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

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

Highlights and key features of the study

Global Chiral Membrane total production and demand, 2021-2032, (Sq m)

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

Global Chiral Membrane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Chiral Membrane consumption by region & country, CAGR, 2021-2032 & (Sq m)

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

Global Chiral Membrane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Chiral Membrane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Chiral Membrane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Chiral 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 Daicel, YMC, Merck KGaA, Thermo Fisher Scientific, Agilent Technologies, Shimadzu, Chiral Technologies, Regis Technologies, Phenomenex, Avantor (VWR), 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 Chiral Membrane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) 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 Chiral Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chiral Membrane Market, Segmentation by Type:

Solution-Diffusion

Facilitated Transport

Molecular Sieving

Affinity-based

Global Chiral Membrane Market, Segmentation by Material:

Polymeric Membranes

Mixed-Matrix Membranes

Inorganic Membranes

Biomimetic Membranes

Global Chiral Membrane Market, Segmentation by Application:

Pharmaceutical Chiral Separation

Continuous Manufacturing

Fine Chemicals

Agrochemicals

Process Intensification

Others

Companies Profiled:

Daicel

YMC

Merck KGaA

Thermo Fisher Scientific

Agilent Technologies

Shimadzu

Chiral Technologies

Regis Technologies

Phenomenex

Avantor (VWR)

Sepax Technologies

Dalian Institute of Chemical Physics

Nankai University Chiral Group

Welch Materials

Dikma Technologies

Hanbon Science & Technology

Qingdao Kechuang

Key Questions Answered:

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

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