

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

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Abstracts

The global Hydrophobic Membrane market size is expected to reach \$ 1950 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

A hydrophobic membrane is a type of thin film material with hydrophobic properties, whose surface can repel water molecules, thereby achieving the separation of different phases of substances such as water and oil, or water and air. This membrane material typically has low surface energy chemical groups or special nanostructures at the microscopic level, which can effectively reduce the adhesion of water molecules to its surface. Hydrophobic membranes are widely used in biomedicine, water treatment, and chemical separation, for example, in blood filtration to prevent plasma protein adsorption, in seawater desalination to improve the separation efficiency of brine and fresh water, and in chemical processes to achieve efficient separation of organic solvents and water. With the continuous progress of nanotechnology, materials science, and surface engineering, the performance and application scope of hydrophobic membranes are rapidly expanding, making them an important field of interdisciplinary research and industrial application.

In 2024, global Hydrophobic Membrane sales volume reached approximately 151 million sqm, with an average global market price of around 7.12 US\$ per sqm.

Market Development Opportunities & Main Driving Factors

With the global emphasis on environmental protection and sustainable development, the application prospects of hydrophobic membranes in the water treatment field are broad. Especially in seawater desalination, industrial wastewater treatment, and drinking water purification, hydrophobic membranes can effectively remove pollutants

from water and improve the utilization rate of water resources. In addition, the demand for hydrophobic membranes in the biomedical field is also increasing. For example, in blood filtration, cell culture, and drug delivery, hydrophobic membranes can prevent the nonspecific adsorption of biomolecules, thereby improving biocompatibility and safety. Technological progress is another important factor driving the development of the hydrophobic membrane market. The application of nanotechnology has continuously improved the performance of hydrophobic membranes, such as higher flux, lower energy consumption, and longer service life. These technological breakthroughs not only reduce the production cost of hydrophobic membranes but also expand their application scope in emerging fields, such as separators in new energy batteries and waterproof coatings for electronic devices.

Market Challenges, Risks, & Restraints

Despite the huge potential of the hydrophobic membrane market, it also faces some challenges and risks. First, the production cost of hydrophobic membranes is still high, especially in high-performance and high-precision application scenarios. This limits its widespread application in some price-sensitive markets. Second, the durability and stability of hydrophobic membranes need to be further improved. For example, in complex industrial environments, hydrophobic membranes may be affected by chemical corrosion, physical wear, or biological contamination, thereby reducing their performance and service life. In addition, the market competition is fierce, with new entrants constantly emerging, which may lead to technological homogenization and price wars. Finally, the imperfection of regulations and standards may also hinder the development of the hydrophobic membrane market, especially in areas involving food safety, medical safety, and environmental protection.

Downstream Demand Trends

From the perspective of downstream demand, the application fields of hydrophobic membranes are constantly expanding. In the water treatment industry, with the intensification of global water shortage problems, seawater desalination and wastewater reuse have become important trends. The application of hydrophobic membranes in these fields will continue to increase to meet the demand for efficient, energy-saving, and environmentally friendly water treatment technologies. In the biomedical field, the development of personalized medicine and precision medicine has driven the demand for high-performance hydrophobic membranes, especially in biosensors and drug delivery systems. In addition, with the rapid development of new energy technologies, the application of hydrophobic membranes in new energy battery separators has also

attracted attention. For example, the separator of lithium-ion batteries needs to have good hydrophobicity and mechanical strength to prevent electrolyte leakage and battery short-circuiting. In the future, the demand for hydrophobic membranes will be more diversified, and the market demand for high-performance, multifunctional, and environmentally friendly hydrophobic membranes will continue to grow.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Hydrophobic 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 Gore, Donaldson Company, Sumitomo Electric, Saint-Gobain, Pall Corporation, GVS Filter Technology, Sartorius, Zeus, Porex, Cobetter, 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 Hydrophobic 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 Hydrophobic Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrophobic Membrane Market, Segmentation by Type:

PTFE Hydrophobic Membrane

PVDF Hydrophobic Membrane

Other

Global Hydrophobic Membrane Market, Segmentation by Filtration Efficiency:

Less than 0.45 μ m

Above 0.45 μ m

Global Hydrophobic Membrane Market, Segmentation by Thickness:

Less than 0.2 mm

0.2-0.3 mm

Above 0.3 mm

Global Hydrophobic Membrane Market, Segmentation by Application:

Medical

Industrial

Electronics & Semiconductors

Food & Beverage

Other

Companies Profiled:

Gore

Donaldson Company

Sumitomo Electric

Saint-Gobain

Pall Corporation

GVS Filter Technology

Sartorius

Zeus

Porex

Cobetter

Suzhou Unique New Material

Membrane Solutions

MicroVent

Shanghai Sinsung Filter Technology

Zhejiang Tailin Bioengineering

Key Questions Answered:

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

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