

Global Flat Sheet Submerged Ultrafiltration Membranes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Flat Sheet Submerged Ultrafiltration Membranes market size is expected to reach \$ 313 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

In 2025, global Flat Sheet Submerged Ultrafiltration Membranes production reached approximately 3.29 million square meters, with an average global market price of around US\$50 per square meter.

Flat Sheet Submerged Ultrafiltration Membranes are membrane separation products in which flat-sheet UF membrane panels are submerged in a membrane tank or bioreactor and operated by suction or low-pressure filtration to achieve solid-liquid separation. These membranes are typically made from PVDF, PES, PTFE, PAN, or modified composite materials. The membrane sheets are fixed onto support plates or frames; during operation, wastewater or process liquid flows outside the membrane surface, while permeate passes through the membrane into internal channels and is withdrawn by suction. Compared with hollow fiber membranes, flat sheet submerged UF membranes offer stronger mechanical structure, better fouling resistance, lower risk of fiber breakage, and easier cleaning and maintenance. They are mainly used in MBR systems, municipal wastewater treatment, industrial wastewater reuse, landfill leachate treatment, food and beverage wastewater, chemical wastewater, pharmaceutical wastewater, and high-strength organic wastewater treatment.

The upstream supply chain of flat sheet submerged ultrafiltration membranes includes membrane polymers such as PVDF, PES, PTFE, and PAN, solvents such as NMP, DMAc, and DMF, hydrophilic modifiers, pore-forming agents, nonwoven support layers,

membrane plates, ABS/PP/PVDF frames, sealants, potting resins, aeration tubes, and module assembly equipment. Representative suppliers include Arkema, Solvay, BASF, Evonik, Asahi Kasei, SABIC, Dow, and Covestro. Midstream companies manufacture flat sheet membranes, membrane modules, and MBR systems, including Kubota, Toray, Mitsubishi Chemical, Pentair, SUEZ/Veolia Water Technologies, Asahi Kasei, OriginWater, MOTIMO, Litree. Downstream applications include municipal wastewater plants, industrial park wastewater treatment, landfill leachate, food and beverage, pharmaceutical, chemical, electronics, and water reuse projects. Representative users and solution providers include Veolia, SUEZ, Xylem, Evoqua, Beijing Enterprises Water, China Everbright Water, Capital Eco-Pro, Coca-Cola, Nestl?, Pfizer, BASF, and Samsung Electronics.

The flat sheet submerged ultrafiltration membrane market is experiencing steady growth and deeper penetration in high-fouling wastewater applications. MBR wastewater treatment, municipal upgrading projects, industrial wastewater reuse, landfill leachate, and high-strength organic wastewater are the main demand sources. Key trends include high-fouling-resistant PVDF/PTFE membranes, lower-energy aeration, modular membrane units, longer membrane life, intelligent O&M, and better adaptability to complex water quality. Growth drivers include stricter wastewater discharge standards, increasing water reuse demand, industrial park wastewater treatment upgrades, land constraints that favor MBR processes, and the need for stable solid-liquid separation in high-fouling wastewater. Main challenges include membrane fouling and cleaning costs, higher upfront investment than some hollow fiber alternatives, price competition in low-end municipal projects, aeration energy consumption, and maintenance requirements. Overall, flat sheet submerged UF membranes are a higher-resilience segment of the UF membrane market, particularly suited to complex wastewater treatment, with future growth mainly driven by MBR upgrades, industrial water reuse, and difficult wastewater treatment.

This report studies the global Flat Sheet Submerged Ultrafiltration Membranes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Flat Sheet Submerged Ultrafiltration Membranes 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 Flat Sheet Submerged Ultrafiltration Membranes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Flat Sheet Submerged Ultrafiltration Membranes total production and demand, 2021-2032, (K Sqm)

Global Flat Sheet Submerged Ultrafiltration Membranes total production value, 2021-2032, (USD Million)

Global Flat Sheet Submerged Ultrafiltration Membranes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Flat Sheet Submerged Ultrafiltration Membranes consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Flat Sheet Submerged Ultrafiltration Membranes domestic production, consumption, key domestic manufacturers and share

Global Flat Sheet Submerged Ultrafiltration Membranes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Flat Sheet Submerged Ultrafiltration Membranes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Flat Sheet Submerged Ultrafiltration Membranes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Flat Sheet Submerged Ultrafiltration Membranes 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 Kovalus Separation Solutions, Asahi Kasei, Veolia, DuPont, Toray, 3M, Mitsubishi Chemical, Nitto Denko, Synder Filtration, Mann+Hummel, 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 Flat Sheet Submerged Ultrafiltration Membranes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (USD/Sqm) 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 Flat Sheet Submerged Ultrafiltration Membranes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Flat Sheet Submerged Ultrafiltration Membranes Market, Segmentation by Type:

Inorganic Membrane

Organic Membrane

Global Flat Sheet Submerged Ultrafiltration Membranes Market, Segmentation by Material:

PVDF Hollow Fiber Ultrafiltration Membranes

PES Hollow Fiber Ultrafiltration Membranes

PS Hollow Fiber Ultrafiltration Membranes

PAN Hollow Fiber Ultrafiltration Membranes

PVC Hollow Fiber Ultrafiltration Membranes

Global Flat Sheet Submerged Ultrafiltration Membranes Market, Segmentation by Pore Diameter:

0.01?0.03 ?m

0.03?0.05 ?m

0.05?0.10 ?m

Others

Global Flat Sheet Submerged Ultrafiltration Membranes Market, Segmentation by Application:

Food and Beverage

Industrial and Municipal

Healthcare and Bioengineering

Seawater Reverse Osmosis

Potable Water Treatment

Others

Companies Profiled:

Kovalus Separation Solutions

Asahi Kasei

Veolia

DuPont

Toray

3M

Mitsubishi Chemical

Nitto Denko

Synder Filtration

Mann+Hummel

Pentair

QUA group

SUEZ

Applied Membranes

EuroTe

Dow

GE

Supratec

Pall

Hydranautics

Membrane Solutions

Canpure

Scinor

MOTIMO

CITIC Envirotech

Origin Water

Vontron

Hinada

Litree

Key Questions Answered:

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

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