

# Hollow Fiber Membranes Market Expected to Hit USD 8.52 Billion by 2032, Boosted by Water and Gas Filtration Needs

*The rising demand for hollow fiber membranes in water treatment, biopharmaceuticals, and industrial filtration is driving innovation and market growth.*

AUSTIN, TX, UNITED STATES, February 26, 2025 /EINPresswire.com/ -- The [hollow fiber membranes market](#) was valued at USD 2.46 billion in 2023 and is projected to reach USD 8.52 billion by 2032, growing at a CAGR of 14.85% from 2024 to 2032. Reduced water

purification regulations high-efficiency separation process requirement and the increasing application of membranes-based filtration systems over other physical separation techniques in the industrial domain are also responsible for increasing the market. Across the globe, governments are introducing stringent regulations aimed at better wastewater management and provision of potable water, thereby increasing the use of hollow fiber membranes across municipal, industrial, and medical applications. Furthermore, growing technological advancement in ultrafiltration and microfiltration membrane systems is also stimulating the growth of the market.

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## Key Players:

- Sartorius AG (Sartoflow Alpha Plus, Sartocan)
- Repligen Corporation (TFDF Hollow Fiber Filters, Spectrum Hollow Fiber Filters)
- Danaher Corporation (Pall Allegro, Pall Microza)
- Merck KGaA (Pellicon, Durapore)
- Asahi Kasei Corporation (Microza UF, Planova)
- Parker Hannifin Corp. (PROPOR TFF, Hollow Fiber TFF Modules)



- Toray Industries (Toray Romembra, Torayfil)
- DuPont (DowDuPont) (FilmTec, IntegraFlux)
- LG Chem (NanoH2O, LG SWRO)
- Koch Membrane Systems (PURON HF, MegaPure)
- Mitsubishi Chemicals (Sterapore, DiaFellow)
- Pentair (X-Flow HF, AquaFlux)
- Synder Filtration, Inc. (Synder Hollow Fiber UF, Synder TFF)
- Meissner Filtration Products, Inc. (UltraCap HF, BioFlex HF)
- GE Water & Process Technologies (ZeeWeed, GE Hollow Fiber UF)
- Lenntech (Lenntech Hollow Fiber UF, Lenntech Microfiltration)
- Toyobo (Hollosep, Toyobo Hollow Fiber UF)
- Microdyn Nadir (AQUADYN, PureULTRA)
- Polymem France (Neophil, Gigamem)
- Evonik Industries (Sepuran, Evonik Hollow Fiber UF)

By Membrane Material, The Polymer Membranes Segment Accounted for Over 85% Share in 2023

They are low-cost, have fair flexibility, and have good chemical resistance so they are appropriate for the majority of polymer membranes like PES, PVDF, and cellulose acetate. As the American Membrane Technology Association (AMTA) and the European Membrane Society (EMS) report, the adoption rate of polymer membranes is also increasing in the water treatment as well as biopharmaceutical industries. This has led the U.S. Environmental Protection Agency (U.S. EPA) and the European Commission to target polymer membranes used in sustainable wastewater treatment processes for an early mover advantage in the market.

By Filtration Type Microfiltration held the largest market share around 45% in 2023.

Microfiltration is an essential filtration process in the treatment of water, dairy products, and drugs. Its wide applications arise due to the high effectiveness in removing suspended solids, bacteria, and larger particulates. As regulatory authorities such as the FDA monitor pharmaceutical and food industries along strict filtration standards in biopharmaceutical and food products, the demand for microfiltration membranes continues to grow. The WHO WSP contributes also to facilitating the worldwide diffusion of this drinking-water purification technology particularly in developing countries.

By End-use Industry, Water Treatment Held the Largest Market Share of Around 40% in 2023

Water treatment remains the largest application segment, driven by rising concerns over water scarcity, stringent regulations on industrial effluent treatment, and growing urbanization. Hollow fiber membranes are widely used in municipal water treatment plants, industrial wastewater treatment, and desalination processes due to their high surface area, low energy consumption, and excellent filtration capabilities. The increasing adoption of membrane bioreactors (MBRs) in

wastewater treatment plants is further propelling market growth. Governments and industries are investing in advanced water filtration systems to meet environmental standards, thereby strengthening the demand for hollow fiber membranes.

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Asia-Pacific Led the Market with a Share of 40% in 2023

Asia-Pacific dominates the global hollow fiber membranes market, supported by rapid industrialization, increasing water pollution levels, and expanding healthcare infrastructure. Countries such as China, Japan, and India are investing heavily in water purification projects, medical research, and pharmaceutical manufacturing, driving the adoption of advanced filtration technologies. China's National Water Pollution Prevention Action Plan, Japan's Water Supply Act, and India's Smart Cities Mission are key regulatory initiatives contributing to market expansion. Additionally, the growing adoption of membrane-based filtration systems in food and beverage processing and industrial gas separation further solidifies Asia-Pacific's position as the leading regional market.

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Jagney Dave  
SNS Insider Pvt. Ltd  
+1 315 636 4242

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