

Global Hollow Fiber Membrane Module Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Hollow Fiber Membrane Module competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A hollow fiber membrane module is a device that assembles hollow fiber membranes in a certain form to achieve the separation of components in a mixture under a specific driving force.

Structure and Composition
Hollow Fiber Membranes: These are the core components, which are thin - walled cylindrical membranes with a hollow interior. They are usually made of materials such as polyethersulfone (PES), polyvinylidene fluoride (PVDF), and polytetrafluoroethylene (PTFE). The membranes have a certain pore size, which can separate substances according to their molecular size or particle size.

Housing and End - Caps: The hollow fiber membranes are installed in a housing, which is usually made of materials such as plastic or metal to provide mechanical support and protection. The end - caps are used to seal the two ends of the housing and connect the hollow fiber membranes to the fluid inlet and outlet channels.

Working Principle
Filtration Modes: There are two main filtration modes, namely inside - out and outside - in. In the inside - out mode, the feed liquid enters the inner cavity of the hollow fiber membrane, and the filtrate passes through the membrane wall and flows out from the outside of the membrane; in the outside - in mode, the feed liquid flows outside the hollow fiber membrane, and the filtrate enters the inner cavity of the membrane and is discharged.

Separation Mechanism: Driven by pressure, concentration difference or other forces, the components in the fluid are separated according to the size of the membrane pores. For example, in ultrafiltration membrane modules, macromolecular organic substances, colloids, bacteria, etc. in the water are retained by the membrane, while water and small - molecular substances pass through the membrane to achieve purification.

The global market situation of hollow fiber

membrane modules is characterized by stable growth in market size, a competitive landscape dominated by several major players, and the emergence of multiple favorable development trends. The Asia - Pacific region holds an important position in the global market, and its market status will become more prominent in the future. China and the United States are the leading markets. The application fields of hollow fiber membrane modules are constantly expanding. In addition to the traditional water treatment and gas separation fields, they are also increasingly used in emerging fields such as hydrogen production, carbon capture and storage, which will provide new growth points for the market. With the continuous advancement of technology, hollow fiber membrane module technology is also constantly evolving. Manufacturers are investing in research and development to improve membrane performance, such as increasing separation efficiency, improving chemical stability and mechanical strength, which will promote the continuous upgrading of products. With the enhancement of global environmental awareness and the pursuit of sustainable development, there is an increasing demand for energy - saving and environmentally - friendly hollow fiber membrane modules. Membrane modules with lower energy consumption and smaller footprint will be more favored by the market.

The industrial chain of hollow fiber membrane modules:

1. Upstream: Raw Material & Equipment Supply
 - 1.1 Core Raw MaterialsRaw materials are divided into membrane - forming materials (the core of hollow fiber membranes) and auxiliary materials (supporting module assembly).
 - 1.2 Key Production EquipmentSpecialized equipment is required for both membrane spinning and module assembly, with high precision requirements:
 - Membrane Spinning Equipment: Hollow fiber spinning machines (to extrude polymer solutions into hollow cylindrical membranes), coagulation baths, and winding machines.
 - Module Assembly Equipment: Membrane bundling tools, potting machines (for fixing membranes with adhesives), housing assembly lines, and leak - detection equipment.
 - Auxiliary Equipment: Solvent recovery systems (to reduce environmental pollution and material costs), and precision filters (to purify raw materials).
2. Midstream: Core Manufacturing & ProcessingThe midstream segment is the "core link" of the industrial chain, responsible for transforming raw materials into finished hollow fiber membrane modules. It includes two key processes: hollow fiber membrane production and module assembly.
 - 2.1 Key Processes
 - 2.1.1 Membrane Spinning (Core of Membrane Preparation):
 - Mix polymer raw materials, solvents, and additives to form a uniform "casting solution".
 - Extrude the casting solution through a spinneret (with a double - layer structure to form the hollow interior) into a coagulation bath.
 - The solvent in the solution diffuses into the bath, and the polymer solidifies to form a hollow fiber membrane with a porous structure.
 - Undergo post - treatment (e.g., washing, drying, and crosslinking) to enhance stability.
 - 2.1.2 Module Assembly (Systematization of Membranes):
 - Bundling: Cut hollow fiber membranes into specified lengths and bundle them into a "membrane

bundle".Potting: Fix the two ends of the membrane bundle with epoxy resin in a housing to form a sealed "membrane core".Trimming & Testing: Trim the potted ends to expose the membrane's inner cavity, install end caps/connectors, and conduct leak - detection and flux testing.Packaging: Finish the qualified modules for delivery.

2.2 Product Classification

Midstream enterprises produce modules of different specifications based on membrane pore size and application scenarios, which correspond to downstream needs:- Microfiltration (MF) Modules: Pore size $0.1\text{--}10\text{ }\mu\text{m}$, for pre - filtration.- Ultrafiltration (UF) Modules: Pore size $0.001\text{--}0.1\text{ }\mu\text{m}$, for water purification.- Nanofiltration (NF) Modules: Pore size $0.0001\text{--}0.001\text{ }\mu\text{m}$, for desalination.- Reverse Osmosis (RO) Modules: Pore size

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