

POREFLON™
PTFE MF/UF Membrane Module
HIGH PERFORMANCE IN EXTREME CONDITIONS



News & Highlights

POREFLON™ MBR (Membrane Wastewater Treatment System) Works Well for Textile Wastewater (Japanese Denim Manufacturer)

Situation

In 2015 Sumitomo Electric Industries, Ltd. delivered POREFLON™ MBR system (PTFE (polytetrafluoro-ethylene hollow fiber membrane wastewater treatment systems) to Kaihara Co., Ltd., a leading manufacturer of high-quality denim, headquartered in Fukuyama, Hiroshima.

Working closely with Kaihara, Sumitomo Electric spent a year and a half pilot testing the effectiveness of its PTFE hollow fiber membrane for the treatment of wastewater containing polyvinyl alcohol (PVA).

PVA is a synthetic resin used as a fiber-sizing agent that is not easily degraded in the wastewater stream and tends to cause membrane fouling.

During the test, the **POREFLON™ MBR system** performed to the standards desired.

As a result of the successful pilot test, Kaihara introduced Sumitomo's **POREFLON™ MBR** system into its Kisa plant (**Capacity: 0.32MGD 1,200m³/day**) and another plant in Thailand (**Capacity: 0.22MGD 800 m³/day**).

The **POREFLON™** MBR systems have enabled Kaihara to treat wastewater stably and to minimize industrial waste, energy costs, and equipment installation space.

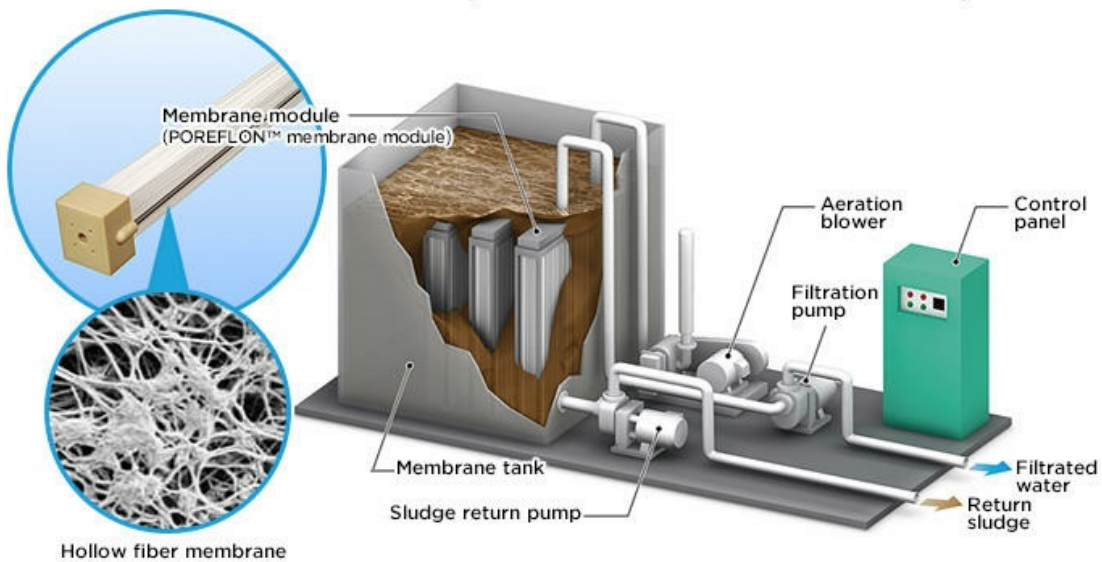
NOTE: Content above is taken from a Press Release published by Sumitomo Electric Industries, Ltd. in Japanese on March 13, 2017.

Choose **POREFLON™ PTFE** membranes for:
Chemical resistance.
Tensile strength.
Mechanical strength. Porosity.
Hollow fiber. Wettability.

Features of the wastewater treatment membrane module:

- **Due to its high degree of flexibility,** Sumitomo Electric's PTFE hollow fiber membrane sways easily. The flexibility of the membrane and the intrinsic properties of the material give the membrane its fouling resistant property.
- **POREFLON™ hollow fiber membranes** are made of a single material (PTFE) which has been proven 8 to 10 times stronger than other hollow fiber membranes made of different materials.
- The **POREFLON™** wastewater treatment system is packaged with a membrane tank, pumps, aeration blower, and a control panel. The membrane module design achieves efficient aeration by its dense array of hollow fiber membranes, while the other necessary equipment and devices are minimized, resulting in overall energy-saving system operations.

POREFLON™ membrane separation wastewater treatment system



Do you have challenges in the treatment
of manufacturing wastewater?

[Learn more about PTFE membrane technology today.](#)

Contact the Water Processing Group at Sumitomo Electric USA
Phone: (408) 881-2011 | [Email](#)

Video about POREFLON™

The multiple advantages of POREFLON™ PTFE in a Membrane Bio Reactor (MBR) system are highlighted [in this short video](#).



For specifications & a demo with Sumitomo's POREFLON™ PTFE

With our sales and service teams in the U.S., we look forward to working with our customers in the Americas.

Please visit our product website and subscribe to our newsletter for case studies and additional information on our U.S. installations.



[Visit our Website](#)