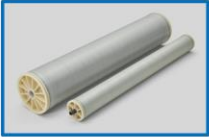
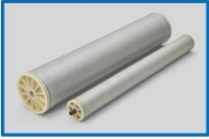




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|---------------------|--|
| Company Name | Toray Industries, Inc. |
| Website URL | www.water.toray |
| Company Outline | <p>【Address】 1-1, Nihonbashi-muromachi 2-chome, Chuo-ku, Tokyo 103-8666</p> |
| | <p>【Contents of Business】 Manufacturing, processing and sales of the following products, among others: -Fibers and Textiles -Performance Chemicals -Carbon Fiber Composite Materials -Environment and Engineering *Comprehensive engineering; condominiums; industrial equipment and machinery; IT-related equipment; <u>water treatment membranes and related equipment</u>; materials for housing, building and civil engineering applications. -Life Science -Pharmaceuticals; medical devices, etc. -Others (Analysis, physical evaluation, research, and other services.)</p> |
| | <p>【Overseas Offices, as of March 2021】 103 in Japan; 180 Overseas (28 countries) <Water related overseas main offices> Toray Membrane USA, Inc. (San Diego, USA), Toray Membrane Europe AG (Basel, Switzerland) Toray Membrane Middle East LLC (Al Khobar, Saudi Arabia) Toray Asia Pte. Ltd. (Singapore) Toray BlueStar Membrane Co., Ltd. (Beijing, China) Toray Advanced Materials Korea Inc. (Seoul, Korea)</p> |
| Contact Information | <p>【Department】 Toshiaki Yoshida (GM, Global Sales & Marketing) UF & MBR Membrane Products Dept. Water Treatment & Environment Division</p> |
| | <p>Tel: +81-3-3245-4542 E-Mail: toshiaki.yoshida.e3@mail.toray</p> |
| Company PR | <p>Toray is an innovator of advanced materials that improve the quality of our everyday lives. Established in 1926, we operate on the guiding principle "Contributing to society through the creation of new value with innovative ideas, technologies, and products." with more than 48,000 dedicated professionals worldwide.</p> <p>Toray began developing membranes for water treatment in 1968. Since then, we have built decades of experience in R&D, manufacturing and application development for reverse osmosis (RO), nanofiltration (NF), ultrafiltration (UF), microfiltration (MF), and membrane bioreactor (MBR) technologies. Toray is a unique company that has all types of water treatment membranes developed all by ourselves and now we are one of the leading membrane suppliers in the world.</p> <p>For drinking water production our UF has many large-scale references all over the world. "Toray UF" is hollow fiber membrane made from PVDF (Polyvinylidene fluoride) which has one of the industry's highest mechanical strength and chemical resistance, and effectively removes suspended solids and microorganisms. We are contributing to society through providing safe and clean water with our state of the art technology.</p> |

<Toray's membrane Line-Up>

| Size | 0.001 μm | 0.01 μm | 0.1 μm | 1 μm | 10 μm |
|----------------------|---|---|--|---|-----------------|
| Separation materials | Ion, Low molecular weight organics | High molecular weight polymer | Colloid | Clay | |
| | Trihalomethane Monovalent ions | Agricultural & Organic Material Multivalent ions | | Bacteria Coliform | Cryptosporidium |
| Types | Reverse Osmosis [RO] | Nanofiltration [NF] | Ultrafiltration [UF] | Microfiltration [MF] | |
| Membrane products | Ultrapure Water, Seawater Desalination, Advanced Water Treatment | Softening, Removal of Toxic substance | Municipal Drinking Water, Reuse of Wastewater, Pretreatment for RO Process | Sewage Water Treatment | |
| |  |  |  |  | |
| | RO(Spiral) | NF(spiral) | UF (Hollow Fiber) | MBR(Flat Sheet) | |

Company PR

<“Toray UF” reference in Tokyo Waterworks Bureau>

| | |
|----------------------|---|
| Facility Name | Kinuta Purification Plant |
| Capacity | 88,000m ³ /d(44,000m ³ /d x 2 trains) |
| Module Type | HFM-2320 (75m ²) |
| No. of Modules | 1st stage : 264 pcs. 2nd stage: 20 pcs. |
| Water Recovery Ratio | 99.9% |
| Design Flux rate | 1st stage : 208lmh (5m/d) |
| Raw Water | River-Bed Water |

