

# Fast and efficient quality control of high performance membranes

Norit develops and applies state-of-the-art purification technologies to help society, through our clients, meet environmental, health, and safety challenges, and work towards a sustainable future. Headquartered in The Netherlands, Norit supplies consumables, components, systems, and solutions, based on proprietary technology to a variety of industries including the water, beverage, food, chemical, pharmaceutical and marine industries. Norit's activated carbon, membranes, pumps, aseptic and hygienic valves, carbon dioxide systems, and quality control equipment rank among the world's best. Norit X-Flow is the membrane production and research facility inside the Norit Group. Norit X-Flow membranes are used in the field of ultrafiltration (UF) and microfiltration in capillary form as well as UF and reverse osmosis (RO) in tubular form, which makes selective filtration possible. Norit X-Flow has expertise and experience in all water areas, from potable water production to the treatment of process and wastewater, and also in the food, beverage and pharmaceutical industries. The extensive portfolio of membrane products assures the right specifications for each application.



**Dr. – Ing. Jens Potreck,**  
**Norit X-Flow Research & Development**

## **Quality as an integral standard**

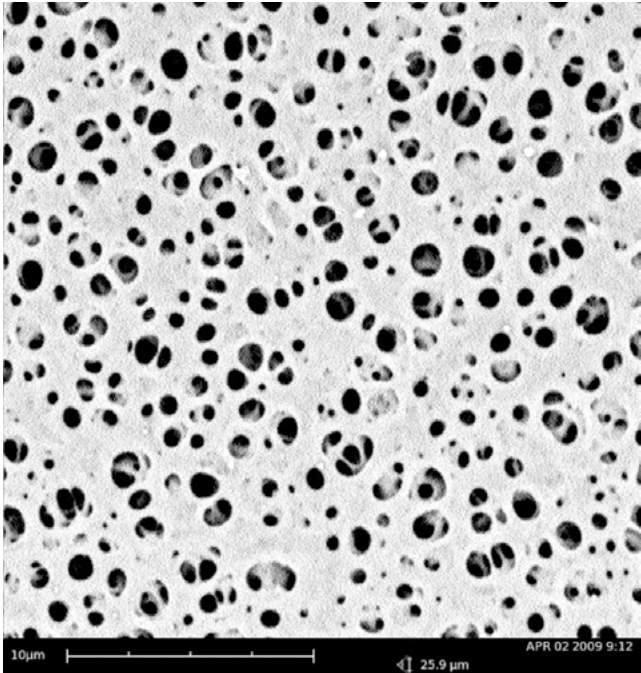
Quality management is deeply rooted within Norit X-Flow's culture. The Norit X-Flow Quality Management System, certified according to the ISO 9001:2000 standard by Lloyds of London is an assurance for the unconditional quality of the design, production, installation and service.

## **Quality control embedded in ISO 9001:2000**

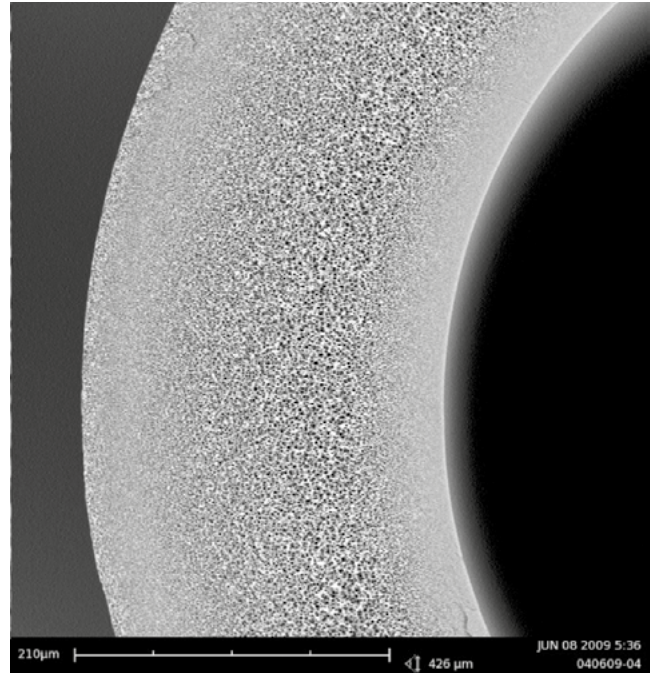
To ensure the given implementation into the ISO 9001:2000 standards each batch of membranes leaving the factory is integrity tested and proven with various testing techniques. One of these is scanning electron microscopy with a Phenom™ scanning electron microscope. Some pictures of the scanned membranes with the Phenom are shown on the next page.

Since many decisions on quality and integrity must be made quickly, Norit X-Flow requires fast and reliable testing techniques. The Phenom combines the perfect combination of easy usability for quality control, reliable quality of the scans, and a fast and efficient measurement tool to ensure the highest quality standards at Norit X-Flow. The Phenom is a high quality product, which increases Norit X-Flow's efficiency and ensures products of high value impact for the separation industry.

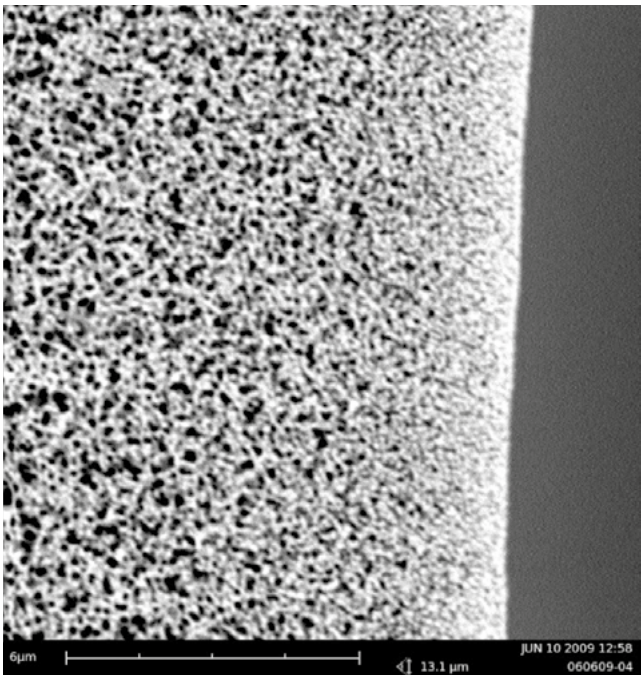
# Norit X-Flow



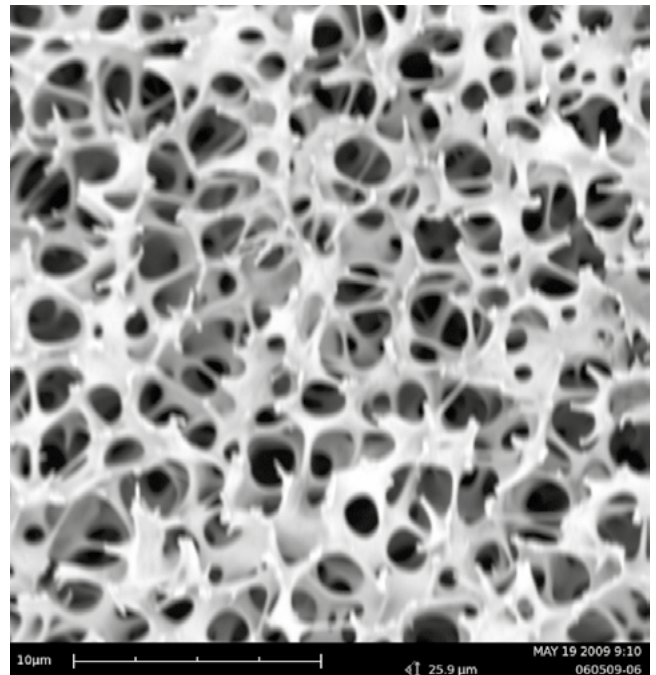
Outside surface of a UF membrane.



Cross sectional area of a UF membrane.



Porous sponge structure of a UF membrane.



Unique, highly porous sponge structure.