

Protection of your RO plants

Preventive Solutions and Safety Programs

The Hydrex™ 4000 range is specifically formulated for membrane treatment systems. The Hydrex™ products keep the membranes free of scale and bacterial growth and aid in extending membrane life. Hydrex™ chemicals optimize operational costs, protect the expensive membrane modules and ensure smooth, efficient operation.

The Hydrex™ 4000 range is approved by leading international membrane manufacturers for use with their products.

Hydrex™ 4000 SERIES

- **Scale inhibitors**
 - Phosphonate
 - Polycarboxylic polymers, sulfonated polymers
- **Biocides**
 - Isothiazolone, DBNPA
- **Cleaning**
 - Alkaline cleaners, acidic cleaners

Veolia Water Solutions & Technologies offers the right Hydrex™ range including chlorination and de-chlorination agents, disinfectants, antiscalants and cleaners for all types of membranes:

- Reverse osmosis
- Nanofiltration
- Ultrafiltration
- Microfiltration



Example of Hydrex™ products:

- Hydrex™ 4101 is a scale inhibitor for calcium carbonate and calcium sulphate.
- Hydrex™ 4102 is a scale inhibitor for calcium carbonate.
- Hydrex™ 4109 is a scale inhibitor for water with high silica content.

Hydrex™ 4101, 4102, 4103, 4105, 4109 products are ANSI/NSF60 approved.

A Global Packaged Offering for Reverse Osmosis

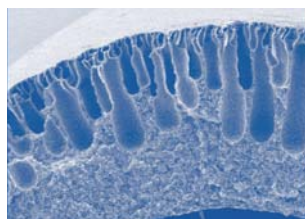


>>> Laboratory services



>>> Specific software for RO applications

- Balancing the ionic composition of the feed water
- Determining scaling potential of various salts at designed recovery and pH
- Offering options of Hydrex™ products to be used to prevent scale formation
- Defining dosage of chosen Hydrex™ product
- Generating final report.



>>> Membrane autopsy

The physical dissection of an RO membrane and the laboratory analysis of its foulants can be one of the most definitive methods of troubleshooting an RO system. A Hydrex™ autopsy includes a wide range of procedures.

- External and internal visual examination
- Test of the element performance
- Chemical identification of the surface foulants
- Loss on ignition test
- Cell and dye test
- Summary and recommendation



>>> Test rig for selection of cleaners

- Proposing preventive/ corrective cleaning sequences adapted to fouling.

Hydrex™ is available worldwide

Contact your local Veolia representative for more information.