



HYDREX™ 4109

Product Information – Technical Data Sheet

Water Treatment Chemical
Membrane Antiscalant



Description and Use

Hydrex 4109 is a multifunctional antiscalant for reverse osmosis and nanofiltration systems.

Detailed Studies have shown that Hydrex 4109 is considerably more effective than many competitive products at controlling silica scale formation over a wide range of conditions. Besides its excellent silica scale inhibition properties Hydrex 4109 is effective in controlling calcium carbonate, strontium sulphate, barium sulphate, calcium fluoride and metal oxides fouling.

Hydrex 4109 is certified to ANSI/NSF Standard 60 for use in reverse osmosis and nanofiltration systems producing potable water.

Advantages

- Highly effective antiscalant across a broad spectrum of water parameters
- Particularly effective in controlling silica scale formation
- Approved under ANSI/NSF Standard for potable water production
- Proven to be more effective than competitive products over a wide range of conditions
- Allows systems to work at higher rates of recovery
- Cost effective liquid concentrate

Application Information

Hydrex 4109 is miscible with water in all proportions. It may be applied as neat product, or as a solution in permeate water. Minimum dosing solution strength of 10% w/w is recommended. Hydrex 4109 should be dosed continuously and proportionately to the feed water flow to maintain the recommended dosage level.

The correct dosage rate is dependant upon several parameters, including feed temperature, pH, and chemical analysis, and will be specified by our VWS consultant after a detailed survey of your plant.

The product should be injected in membrane systems after Chlorine and Sodium Metabisulphite treatment, downstream of any filtration equipment and cartridge filters.

Specifications

Appearance :	Clear amber liquid
Specific Gravity:	1.20 – 1.25 (@ 20 °C)
pH (as supplied) :	1.5 – 3.5 (@ 25 °C)
Flash Point :	Non-flammable
Solubility in Water :	Soluble in all proportions

Materials Compatibility

Hydrex 4109 is an aqueous solution and corrosive in its concentrated form. Corrosion resistant dosing equipment must be used. Suitable materials are PVC, glass lined, glass reinforced plastic, PP or HDPE.

Packaging

Hydrex 4109 is supplied in 25 kg pails, 250 kg plastic drums and 1200 kg containers. Other packaging including bulk and semi-bulk containers are available upon request.

Safety Information

Please refer to the Material Safety Data Sheet for more detailed information.

Publication

This product information is released on 25 Mar. 2024, to replace all previous versions of Hydrex 4109 product information document.

DISTRIBUTOR IN VIETNAM: VATECH JSC

#16, Lane 160, Lac Long Quan Str., Tay Ho Dist., Hanoi, VN
Tel: +84-24-3748.0118 Fax: +84-24-37557429

Website: www.vatech.com.vn