



Technical Data Sheet

Antiscalant/ Antifoulant



Highly effective Antiscalant across a wide quality of feedwater

Compatible with all types of polyamide membrane
Effective over a wide pH range.

Crystal modification distorts inorganic salt crystal growth and reduces system fouling
Chelation/complexing of metallic oxides reduces fouling potential.

Replaces acid addition

Inhibits common scales

- ▶ Calcium phosphate
- ▶ Silica
- ▶ Iron/Manganese

General product information

HydroTreat100 is a multifunctional antiscalant for Reverse Osmosis (RO), Nanofiltration (NF) and Electro-dialysis Reversal (EDR) systems. It is highly effective in controlling calcium carbonate scale on membrane surfaces. Besides its excellent calcium carbonate scale inhibition, HydroTreat100 is highly effective against all common scales, including calcium, barium and strontium sulphate, calcium fluoride and metal oxides scale.

- will enable membrane systems to operate at their highest possible recovery rates.

Physical and chemical product properties

appearance: straw coloured liquid
pH as supplied: <2
S.G.at 20oC: 1.25-1.30
freezing point: <-5°C
Fully miscible with water in all proportions

Chemical reactivity

HydroTreat100 is not affected by chlorine or other oxidizing biocides. HydroTreat100 should be injected in membrane systems after chlorine and sodium metabisulphite treatment.

is not compatible with residual cationic polymers from the pretreatment

Application and dosage level

HydroTreat100 is an aqueous solution and corrosive in its concentrated form. Corrosion resistant dosing equipment must be used.

The dosage level is dependent on the quality of the feedwater and the saturation indices of the various scales forming species present in the concentrated brine. Dose rates of 1-3 mg/L are typical.

The optimum dosage rate can be calculated using the software.

Recommended injection point is into the feedwater, downstream of any filtration equipment and cartridge filters housings.

Health & Safety

HydroTreat100 is an aqueous solution of an Organo-phosphonic acid.

Classification

CHIP Classification: Not Classified/ UN: Non Hazardous

Packaging and shelf life

HydroTreat100 is available in 25 kg pails, 250 kg drums.

Shelf life of HydroTreat100 is 2 years under normal handling and storage conditions.



ANSI/NSF Standard 60
Drinking Water Treatment
Chemicals – Health Effects
MAX Use Level: 20 mg/L

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Water Treatment