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Genesys HR is an effective antiscalant for use in large seawater membrane filtration systems.

It is a concentrated product with a low dose rate and a low phosphate content. Genesys HR inhibits all scaling species, allowing systems to be designed and operated at high recovery, thereby reducing the amount of feed water needed and reject water requiring disposal, and creating significant capital and operational cost savings.

Application

Genesys HR should be dosed continuously to the feed water upstream of the cartridge filter.

Typical dosage rates are 0.4-0.8 mg/L.

The optimum dosage rate can be calculated using the Genesys Membrane Master software. Genesys HR can be diluted and is fully miscible with water in all proportions.

Health and Safety

Genesys HR is a concentrated solution of phosphonic acid that is classified as safe to use in potable water applications. Genesys HR is corrosive to carbon steel so all dosing pumps, storage tanks and pipework should be constructed of acid resistant materials.

A material safety data sheet is available on request.

Classification

CHIP: Irritant | UN: Corrosive

Packaging

Available in 25 kg kegs, 200 kg drums and 1,000 kg IBCs.

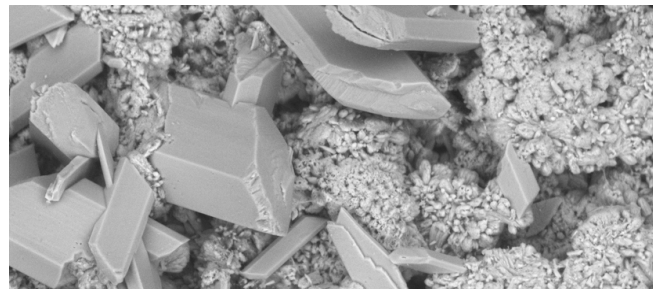
The shelf life is two years under normal conditions of storage.

Typical properties

Appearance: clear liquid
pH as supplied: < 1.5
Specific gravity: 1.14 – 1.16
Freezing point: < -5°C

Genesys HR

Concentrated Seawater Antiscalant



Inhibits Scale Formation



Prevents Iron Fouling

- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Compatible with all polyamide membranes
- ✓ Particularly effective in high pressure systems working at 60-65% recovery
- ✓ Approved for use in drinking water applications (UKDWI)
- ✓ Highly cost effective alternative to SHMP
- ✓ Inhibits common scales
 - Calcium carbonate/sulphate
 - Barium/Strontium sulphate
 - Silica
 - Magnesium hydroxide
 - Iron/Manganese

The information provided in this data sheet is believed to be true and accurate. Genesys International Ltd. accepts no product liability as the use of its products are outside the company's control.