

# Genesol UF Fe

## Oxalic acid based U.F. Membrane Cleaner

### Removes Iron and Manganese Deposits

Genesol UF Fe is a low pH cleaner formulated to remove Iron and Manganese fouling from Ultra-filtration membranes, especially in SWRO applications.

Metallic coagulants are often used in the pre-treatment of Seawater & Brackish Water Reverse Osmosis systems to improve filtration efficiency. However, the coagulants themselves can foul UF membranes causing decrease in performance. In addition, iron corrosion products and naturally occurring feed water iron cause UF membrane fouling.

Membrane manufacturers recommend Oxalic acid for the removal of Iron and Manganese deposits from UF membranes, Genesys has formulated UF Fe based on a synergistic blend of Oxalic and other chelating acids including an Osmotic effect cleaner to enhance foulant removal.

#### Application

Genesol UF Fe should be used as a 1% - 2% solution v/v of CIP solution and should be alternately soaked and recycled through the membrane system for 3-4 hours depending on the level of fouling. Genesol UF Fe will clean effectively at ambient temperature. For heavily fouled systems the cleaning period can be extended, including overnight soaking. For a detailed cleaning programme please contact Genesys International Ltd.

After cleaning, the membrane system should be thoroughly flushed with permeate.

Genesol UF Fe is readily soluble in Permeate water.

#### Health and Safety

Low pH solutions are corrosive against carbon steels and concrete so pumping equipment, piping and storage tanks must be constructed of acid-resistant materials. Observe all safety precautions detailed in the Material Safety Data Sheet which is available upon request.

#### Packaging

Available in 25 kg Pails and 1,000 Kg Bulk Bags.

The shelf life of Genesol UF Fe is 2 years under normal conditions. Ensure the packaging remains sealed and the Genesol UF Fe remains dry.



Typical Iron fouling



Effective cleaner for severe Iron fouling

- ✓ Compatible with all types of ultra-filtration (UF) membranes
- ✓ Acidic pH cleaner to remove Iron fouling
- ✓ Synergized to boost efficiency
- ✓ Cost effective low dose treatment

#### Typical properties

Appearance:	White powder
pH of a 1% Solution:	2.0
Bulk Density:	1.2 – 1.3g/cm <sup>3</sup>
Freezing point:	N/A

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