

# Genesol UF 2

## Acidic U.F. Membrane Cleaner

### Removes Metal Oxides and Inorganic Scales

Genesol UF 2 is a low foaming, multi-component, acidic, UF membrane cleaner formulated with **Osmotic Action** to remove carbonate scales and metal oxides.

Carbonate scales can form in all U.F. systems. In Seawater, shock precipitation of carbonates can occur due to high pH conditions occurring during Chemically Enhanced Backwash (CEB) cycles. Iron and other metals can also gradually accumulate on the membrane surface decreasing performance. As a result, periodic low pH CIP using advanced chemicals is required to remove acid soluble deposits, reduce Trans-Membrane Pressure, (TMP) and restore full Flux when normal CEB does not work.

#### Application

Genesol UF 2 is highly effective when used as a 1% -2% solution with alternating cycles of circulation and soaking for periods of 2 - 3 hours. Genesol UF 2 will clean effectively at ambient temperature. The high ionic strength solution creates an Osmotic effect which helps break up and release deposits from the surface and so allow the active ingredients to work more effectively.

After cleaning, the membrane system should be flushed with permeate water until reaching neutral pH.

Genesol UF 2 is readily dissolved in water.

#### Health and Safety

Genesol UF 2 is a complex of chelating acids and osmotic agents which is classified as non-toxic. 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 2 is 2 years under normal conditions. Ensure the packaging remains sealed and the Genesol UF 2 remains dry.



Carbonate scale deposits



After Cleaning with Genesol UF 2

- ✓ Compatible with all types of ultra-filtration (UF) membranes
- ✓ Effective against inorganic scales
- ✓ Removes iron and calcium based deposits
- ✓ Effective against aluminium based foulants
- ✓ Cost effective low dose treatment

#### Typical properties

Appearance:	White powder
pH of a 1% Solution:	2.0
Bulk Density:	1.3 – 1.4g/cm <sup>3</sup>
Freezing point:	N/A

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