

Genesol UF 12

Alkaline Effervescent U.F. Membrane Cleaner Removes Biofilm and Organic fouling

Genesol UF12 is an effervescent, alkaline, detergent, U.F. Membrane cleaner formulated with osmotic action to remove difficult biofouling, metals and organic deposits.

In all U.F. systems, periodic CIP using advanced cleaners is required to restore full membrane Flux performance and reduce Trans Membrane Pressure (TMP) when normal chemical enhanced backwash (CEB) does not work.

Genesol U.F.12 formulation includes detergents and multi-effect chemistry to penetrate and break down biofilms whilst alkaline components remove protein derivatives, oils and greases. Chelating agents disrupt cell walls and help to remove metals whilst the mechanical effects of Osmotic Action and Effervescence promote foulant release from membrane surfaces.

Application

Genesol UF 12 is highly effective when used as a 1% -2% solution with alternating cycles of circulation and soaking for periods of 2 - 3 hours. A temperature of 35°C – 40°C will help improve foulant removal. The high ionic strength solution creates an osmotic effect which help to break up and release deposits from the membrane surface and so enhance the chelating action. Effervescence generates turbulence during soaking and bubble nucleation releases foulant particles from the membrane surface.

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

Genesol UF 12 is readily dissolved in water.

Health and Safety

Genesol UF 12 is a powder blend of mixed cleaners, including a surfactant, a biodegradable chelant, detergent and an effervescing agent. It is compatible with carbon steel and commonly used materials of construction found in membrane plants and CIP installations.

Protective clothing should be used. Observe all safety precautions shown in the material safety data sheet, available on request.

Packaging

Available in 25 kg Pails and 1,000 Kg bulk bags.

The shelf life of Genesol UF 12 is 2 years under normal conditions. Ensure the packaging remains sealed and the Genesol UF 12 remains dry.



Biofouling and Iron



After cleaning with Genesol U.F. 12

- ✓ Compatible with all types of ultra-filtration (UF) membranes
- ✓ Effective against biofilm
- ✓ Removes organics, proteins, oils and greases
- ✓ Removes particulates such as Silt and clay
- ✓ Cost effective low dose treatment

Typical properties

Appearance:	White powder
pH of a 1% Solution:	11.5
Bulk Density:	1.3 – 1.4g/cm ³
Freezing point:	N/A

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.