



M-412 ANTISCALANT

FOR
REVERSE OSMOSIS
DESALINATION PLANTS

Application:

- Brackish water
- Supersaturated salt solutions, Seawater,
- Process and effluent feed-waters

Highlights:

- Effective against
microbiological
contamination and
mineral deposits
- A New Antiscalant
including Biocide





M-412 ANTISCALANT

GENERAL DESCRIPTION

M-412 is super-threshold microorganism control agent able to stabilize a wide range of supersaturated salt solutions and prevent biofilm growth.

PRINCIPLE USES

M-412 is one of the principal antiscalant and excellent control of microbiological growth used by the membrane industry. For many years M-412 has found application as an antiscalant, antifoulant and microorganism control agent in membrane systems using a wide selection of brackish, high salinity process, effluent feed-waters and landfill leaching.

PRODUCT BENEFITS

- ✓ Includes broad spectrum, non-oxidizing microorganism control agent to prevent biofilm growth on membrane surfaces.
- ✓ Highly effective antiscalant across a broad spectrum of waters
- ✓ Inhibits common scales (Calcium carbonate/Sulphate, Calcium Phosphate, Barium/Strontium Sulphate, Silica, Iron/Manganese)
- ✓ Effective at LSI up to + 3.0
- ✓ Minimizes scaling and reduces the frequency of membrane cleaning
- ✓ Will reduce, and usually replace the need for acid addition
- ✓ Low dose rate gives a cost effective application
- ✓ Compatible with all membrane types
- ✓ Enables systems to work at enhanced rates of recovery
- ✓ Extensive portfolio of toxicological and environmental data available.

DOSAGE & FEEDING

The OSMOTEC computer package will define the optimum chemical requirement for any given water quality. In calculating dosage rates, membrane manufacturer's limits, product capability, operating parameters and feed water quality are all considered.

All calculations are made on the concentrated reject brine and utilize the predicted Langelier Saturation Index, or the Stiff and Davis Index where seawater and high salinity water is in use. Calcium, barium and strontium sulfate solubility's are also calculated as is the dose of M-412. Your OSMOTEC representative will recommend the optimum dosage necessary to ensure maximum program performance according to your specific system parameters.

M-412 needs to be fed continuously to the feed water. Dosing of the neat product is preferable.

MATERIALS: Storage tanks, piping and feeding equipment for M-412 should be constructed of PE, PVC, PTFE or stainless steel. Direct contact of the neat product should be avoided with aluminum, brass, carbon steel and nickel.

HANDLING-STORAGE-SHIPPING

As a standard precaution with all chemicals we recommend the use of personal protective equipments such as goggles and rubber gloves when handling. Consult the Material Safety Data Sheet as the only official source of Environmental and Safety information.

M-412 can be stored for at least 24 months from date of shipping if kept in its original, unopened container and under normal warehouse conditions. Protect from freezing and from exposure to high temperature.

M-412 is available in non-returnable containers of different sizes.

REMARKS

If you need assistance or more information on this product, please call 1300 43 34 43. For more news about OSMOTEC Company, visit our website at www.osmotec.com.au.