



M-400P ANTISCALANT

FOR
REVERSE OSMOSIS
DESALINATION PLANTS

Application:

- Brackish water
- High salinity, Seawater,
- Process and effluent feed-waters

Effective against:

- Calcium Carbonate
- Calcium Sulfate &
- Iron



M-400P ANTISCALANT (NSF)

GENERAL DESCRIPTION

M-400P is super-threshold agent able to stabilize a wide range of supersaturated salt solutions.

PRINCIPLE USES

M-400P is one of the principal antiscalants used by the membrane industry. For many years M-400P has found application as an antiscalant and antifoulant in membrane systems using a wide selection of brackish, high salinity, process and effluent feed-waters.

PRODUCT BENEFITS

- ✓ Highly effective antiscalant across a broad spectrum of waters
- ✓ Minimizes scale formation and reduces frequent membrane cleaning
- ✓ Reduces or replaces the need for acid
- ✓ Cost effective application due to low dose rate
- ✓ Compatible with all membrane types
- ✓ Effective iron sequestrant
- ✓ More stable and more effective than sodium hexameta-phosphate (SHMP)
- ✓ Enables systems to work at enhanced rates of recovery
- ✓ Extensive portfolio of toxicological and environmental data available
- ✓ NSF approved for use in potable water production up to 10 ppm (mg/lit)

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-400P.

In all reverse osmosis systems, continuous dosing to the feed water line downstream of the cartridge filters provides maximum protection. The product should be fed by a dosing pump, preferably straight from the packaging or diluted with distilled water.

The dosage rate can vary in the range of 1 – 10 ppm according to feed water quality and operating conditions.

Your OSMOTEC representative will recommend the optimum dosage necessary to ensure maximum program performance according to your specific system parameters.

M-400P 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-400P 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-SHIPING

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.

MAKS 400P 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.

MAKS 400P 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.