



M-420 ANTISCALANT

FOR
REVERSE OSMOSIS
DESALINATION PLANTS

Application:

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

Highlights:

- Effective Against Silica & Calcium Salts
- An Antiscalant for all types of water





M-420 ANTISCALANT

GENERAL DESCRIPTION

M-420 prevents silica fouling by a combination of anti-precipitation, anti-agglomeration and dispersancy processes. It allows plant operation with high reject brine silica levels. M-420 is also an effective inhibitor for calcium salts and is not deactivated in the presence of iron.

PRINCIPLE USES

M-420 is a synergistic blend of threshold antiscalants and dispersants, developed specifically as a membrane antifoulant for high silica feed-waters.

PRODUCT BENEFITS

- ✓ Effective silica and calcium salt antifoulant in all types of water
- ✓ Liquid product, safe and simple to handle
- ✓ Enables recovery rates to be maximized
- ✓ Compatible with all membrane types
- ✓ Effective over a wide pH range.

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-420. . With high silica brines (180 - 240 mg/l) it is essential the correct level of M-420 is present in the feed water at all times as silica fouled membranes are extremely difficult to clean.

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

M-420 needs to be fed continuously to the feed water. Dosing of the neat product is preferable.

MATERIALS: Storage and application equipment (pumps, lines) should be made of Stainless Steel 304, PE, PP, PU, Neoprene, Hypalon , Buna-N or Plaste 4300 and 7122. Do not use Viton or EPDM in contact with the neat product.

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-420 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-420 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.