

# Hypersperse\* MDC220

## Antiscalant / Antifoulant

- Effectively controls scales including calcium carbonate up to LSI +3.0, calcium sulphate, barium sulphate, and strontium sulphate.
- Compatible with all of the leading R.O. membranes.
- Maintains cleaner membrane surfaces by dispersing particulate foulants.
- Effective in feedwaters that range in pH from 5 - 9.
- May be fed neat or diluted.
- Good tolerance to aluminium and iron oxides.
- Certified for use in producing potable water. (Certified to NSF/ANSI Standard 60)

### Description and Use

Hypersperse\* MDC220 is a highly effective liquid antiscalant/antifoulant developed to control scale precipitates and reduce particulate fouling within membrane separation systems. Correct use of this product provides longer run times and extended element life resulting in reduced operating and capital costs. Use in industrial applications show excellent results in membrane separation processes including reverse osmosis, nanofiltration and ultrafiltration applications.

### Typical Applications

For maximum effectiveness, Hypersperse MDC220 should be added prior to the static mixer or cartridge filter housing.

Dilution with RO permeate or DI water is recommended.

### Treatment and Feeding Requirements

Maximum dosage is 10 ppm. Maximum dilution is 10% with Ro permeate or DI water.

Typical dosage range is between 2 and 6 ppm. A sample dosage calculation for general purposes would be as follows:

Example: Hypersperse MDC220 dosage was determined to be 4.0 ppm. If the system feed flow is 100 m<sup>3</sup>/day, at what rate must the chemical be applied?

$$(\text{Feed flow m}^3/\text{day})/1000 \times (\text{ppm Hypersperse}) = \text{Kg per day}$$

$$\text{Kg per day} / \text{Specific Gravity} = \text{litres per day of Hypersperse}$$

#### Calculation:

$$(100/1000) \times 4.0 = 0.4 \text{ kg per day}$$

$$0.4 / 1.15 = 0.35 \text{ litres per day}$$

Important note: Over and under-dosing may cause membrane fouling so please contact your GE representative to define the optimal feedpoint and dosage rate.

### Packaging Information

This product is available in a variety of packages. Precautions should be taken to prevent the liquid from freezing as it may separate. Product integrity may be restored by slowly warming and then agitating.

### Safety Precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.



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