Hypersperse* MDC120

FACT SHEET

Antiscalant/Antifoulant

- Certified for use in producing potable water. (Certified to NSF/ANSI Standard 60).
- Effectively controls scales including calcium carbonate, 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 a broad feed water pH range.
- May be fed neat or diluted.

Description and Use

Hypersperse MDC120 is a highly effective liquid antiscalant developed to control scale precipitates within membrane separation systems. Correct use of this product provides longer run times and extended element life resulting in reduced operating and capital costs. Years of use in industrial applications show excellent results in membrane separation processes, including reverse osmosis, nanofiltration, and ultrafiltration applications.

Typical Applications

Hypersperse MDC120 should be added prior to the static mixer or cartridge filter housing for maximum effectiveness.

If dilution is required, dilution with RO permeate, or demineralised water is recommended.

Maximum dilution is temperature related as shown below:

Temperature, °C	Maximum Dilution, %
<30	10
30-35	25
>35	50

Treatment and Feeding Requirements

Typical dosage range is between 1 and 6 mg/l.

A sample dosage calculation for general purposes would be as follows:

Dosing Example: Hypersperse MDC120 dosage was determined to be 4.0 mg/l. If the system feed flow is 100 m^3/day, at what rate must the chemical be applied?

Feed flow, m^3/day x Hypersperse, mg/l/1000 = kg/day

(kg/day)/Specific Gravity =
litres/day of Hypersperse

Calculation:
100 x 4.0 / 1000 = 0.4 kg/day
0.4 / 1.22 = 0.33 liters/day

Please contact your Veolia representative to define the optimal feed point and dosage rate.

Packaging Information

Hypersperse MDC120 is a liquid material available in a wide variety of customized containers and delivery methods. Contact your Veolia representative for more details.

Storage and Handling

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 the product.

Safety Precautions

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

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