

# Hypersperse\* MDC200

## Antiscalant / Antifoulant

- Certified for use in producing potable water (Certified to NSF/ANSI Standard 60)
- Effectively controls scales including calcium carbonate up to LSI +2.50, 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
- Easy to handle liquid formulations
- Compatible with feedwaters that contain aluminum and iron oxides

### Description and Use

Hypersperse\* MDC200 was developed to control scale precipitates and reduce particulate fouling within membrane separation systems.

Hypersperse MDC200 is a highly effective formulated liquid antiscalant developed to control inorganic scale formation associated with carbonate, sulphate and metallic oxides precipitation within membrane separation systems. Use of this product provides longer run times between system cleans resulting in extended membrane life and reduced operating costs.

Application of the Hypersperse MDC200 product has been proven to be effective in the operating conditions found in reverse osmosis and nanofiltration membrane plants.

### Typical Applications

Inorganic precipitation associated with the high salinity of the feedwater and metallic compounds is a major deposit-causing contaminant in membrane separation equipment. They must be controlled to inhibit deposit formation on membrane surfaces and feed spacers and to prevent increased differential pressures and the resulting membrane damage.

Hypersperse MDC200 can be applied on feedwaters from a variety of feed sources.

Hypersperse programmes combine the threshold action of phosphonates with the dispersing power of Polymers to prevent hardness and metallic oxides deposition.

### Treatment and Feeding Requirements

**Feedpoint** – For maximum effectiveness, Hypersperse MDC200 should be added prior to the static mixer or cartridge filter housing.

Check with your local GE Water & Process Technologies representative to determine the specific conditions in your system in order to define the optimum feedpoint and dosage rate. In some systems, specific feedpoint and injection facilities may be required.

**Feedrate** - The required feedrate depends on the specific plant operating conditions. Depending on feedwater salinity, temperature, conversion ratios, and membrane selection a specific quantity will be dosed in proportion to the feed flow to the system.

The Argo Analyzer custom software package is available to assist in dose rate determination.



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**Dilution** – Hypersperse MDC200 can be fed neat or diluted to any convenient strength with permeate or potable water.

## Packaging Information

Hypersperse MDC200 is a liquid blend and is available in a wide variety of customised containers and delivery methods. Contact your local GE representative for details.

## Safety Precautions

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