

# Hypersperse\*

## Membrane System Deposit Control Program

Hypersperse pretreatment program is designed to eliminate scale and reduce fouling of membrane in membrane systems, regardless of the feedwater source.

While treatment with ordinary antiscalant does provide some improvement, use of patented GE Water & Process Technologies' chemistry maximizes efficacy against a broad range of scale-forming substances and keeps fouling material in suspension.

Ions concentrate at the membrane surface as the water passes through, leaving behind a more concentrated solution of sparingly soluble species. Scaling and fouling is accentuated by the narrow feedwater channel found in spiral wound and hollow fiber elements.

Common foulants and scalants include calcium carbonate, calcium sulfate, barium sulfate, strontium sulfate, calcium fluoride, iron, colloidal material, silica and other organic contaminants.

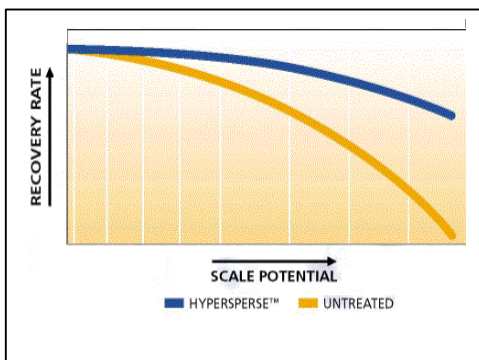
Hypersperse MDC-Series offers protection against scale-forming and colloidal foulants, while Hypersperse MSI series offers silica scale and adhesion protection.

The proper dosage of Hypersperse products is determined by the use of the Argo Analyzer\*. This extensive software package helps you:

- Predict scale
- Select product
- Determine dosage
- Maximize membrane recovery rate

### Features and Benefits

- Controls scales including silica, calcium carbonate, calcium sulfate, barium sulfate and strontium sulfate
- Reduces colloidal fouling
- Safer to handle than sulfuric or hydrochloric acid
- Reduces cleaning and maintenance cost of RO membrane systems
- Long shelf life; solutions could also last longer than ordinary scalant
- RO systems can operate at higher recovery rates, which means lower operating cost
- All products meet ANSI/NSF 60
- Compatible with all leading RO membranes
- Minimize operating costs



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