

BioMate*

Biocides for Membrane Systems

Features

- Highly effective in reducing bacterial growth and slime build-up
- EPA registered, non-oxidizing biocides
- Specifically formulated to be compatible with thin film polyamide, polysulfone and PVDF membranes
- May be fed continuously, intermittently or in a clean-in-place mode
- RO performance is enhanced when using BioMate with Kleen* MCT membrane cleaners.

BioMate* MBC781 is an EPA-registered, non-oxidizing biocide used to sanitize reverse osmosis (RO) systems and membranes. BioMate MBC781 is fed continuously to the feedwater of these systems. A treatment program that includes BioMate MBC781 with other cleaning formulations from GE Water & Process Technologies results in more effective membrane cleaning and decreased cleaning frequencies.

BioMate MBC881 is an EPA-registered, broad-spectrum biocontrol agent used as an intermittent treatment to reduce slime build-up in RO membranes. For optimal results, the system should be cleaned with Kleen* MCT882 and Kleen MCT511, or Kleen MCT442 and Kleen MCT411 prior to the start of the BioMate MBC881 treatment.

BioMate MBC2881 is an EPA-registered, non-oxidizing biocide used to sanitize RO systems and membranes. BioMate MBC2881 may be used as an intermittent treatment to the feedwater of these systems. BioMate MBC2881 is applied by injection into the feed stream during operation of the membrane plant while permeate is discharged to the drain. Normal dosage time is 30 minutes per application.

Biogrowth Control Program

Biofouling is one of the most costly problems facing the water treatment industry. The colonization of naturally occurring microorganisms on membrane surfaces shortens membrane element life and inflates operating costs. Combating and eliminating biofouling is essential for optimal membrane performance.

The Biogrowth Control Program can assist in controlling microbiological activity in a few simple steps:

- Conduct microbiological tests and normalize RO performance data
- Clean with Kleen MCT membrane cleaners
- Sanitize pipework and pretreatment equipment with biocides
- Set up continuous, optimal injection of BioMate biocide dosage and monitor bacteria levels and system performance
- Record and normalize operating data.

The Biogrowth Control Program is highly effective in reducing microorganism growth and slime build-up, resulting in a significant increase in RO system performance.



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