

## MC 110

### MEMBRANE CLEANER

#### DESCRIPTION:

MC 110 is a highly concentrated proprietary phosphate-based membrane cleaner that is effective in the removal of organic matter, foulants and inorganic colloids on the membrane surface. MC 110 is also effective in sequestering iron and copper. MC 110 also contains a dispersant to aid in flushing contaminants from the membrane and feedwater spacer surfaces. MC 110 may be used with both thin film composite and cellulose acetate membranes.

#### GENERAL APPLICATION:

MC 110 should be charged to the chemical cleaning solution tank at the rate of 1 gallon per 10 – 20 gallons of permeate water. For thin-film composite membranes, the pH of the cleaning solution should typically be adjusted to 12 by the addition of dilute sodium hydroxide. For cellulose acetate membranes the pH of the cleaning solution should typically be adjusted to 7 - 8 by the addition of the dilute hydrochloric acid. The cleaning procedure must be performed in accordance with all membrane manufacturer recommendations and guidelines.

#### ADVANTAGES:

- Especially effective against organics and inorganic colloids  
Effectively removes oxides of iron and manganese
- For use on both thin film composite and cellulose acetate membranes

#### Typical Product Characteristics

Appearance .....	Clear liquid
Density at 25° C.....	1.14 g/ml
Weight per US gallon .....	9.5 lbs
pH of product .....	7 - 8

#### SAFETY & HANDLING:

Improper handling of this product can be injurious to workers. Observe all safety precautions shown on the label and Material Safety Data Sheets. Wear proper protective equipment listed on the MSDS. Follow the instructions of your KML Representative in the proper use of this product.

#### PACKAGING:

MC 110 is available in non-returnable, 55 gallon, DOT approved plastic containers.

