



## TRICLEAN 210 LOW PH POWDER ACID MEMBRANE CLEANER

- Removes iron and metal hydroxide fouling.
- Removes calcium carbonate scale

### PROBLEM

In many installations worldwide, RO membranes can become fouled with calcium carbonate scale and/or iron and other metal hydroxide colloids. These foulants can quickly lead to a loss of system performance associated with a decrease in permeate flow, and increase in differential pressure, and a loss of element rejection. If left unchecked, this fouling can permanently damage the membrane elements leading to costly and premature membrane replacement.

### SOLUTION

TriClean 210 removes calcium carbonate scale and iron and metal hydroxide colloids without damaging sensitive polyamide composite membrane elements. Used after a system has exhibited performance loss or as a preventative maintenance cleaning, TriClean 210 should be the first step in any cleaning regime.

### APPLICATION

TriClean 210 should be mixed in a cleaning tank equipped with a mechanical mixer, heater, low pressure recirculation pump, and cartridge or bag filter. This cleaner works best when applied at a temperature of 40°-45°C, a pH of 2.5 to 3.5, and at a flow rate of 8-10 gpm per 4" pressure tube or 30-40 gpm per 8" pressure tube at a pressure of between 20-50 psi. Add 1.5 lbs of TriClean 210 per 10 gallons of RO permeate or DI water. Check and adjust pH if necessary. Add ammonium hydroxide to increase the pH and add more TriClean 210 to decrease the pH. Recirculate solution for 1 hour checking pH regularly. Shut-down pump and allow to soak for 1 hour. After soak, recirculate for an additional 20 minutes and then rinse.

### PACKAGING

TriClean 210 is shipped as a powder in 4 lb, 10 x 4 lb, 40 lb, or 100 lb plastic containers. Pricing is F.O.B. our factory in Goleta, CA. Delivery for most orders is 1-2 days after receipt of order.

### MSDS SHEETS

For the most up to date information on MSDS sheets, please contact our web site at [www.trisep.com](http://www.trisep.com)