



EC Reduction Program

A major issue facing food processing plants is the electrical conductivity in the effluent water that is discharged to municipalities. As more and more States require tighter controls on discharge; this has forced companies to reevaluate how they process and clean to reduce the EC loading of their effluent.

Typical EC Concentrations

0.25% Caustic: 13,930 $\mu\text{S}/\text{cm}$
0.50% Caustic: 27,860 $\mu\text{S}/\text{cm}$
1.00% Caustic: 55,720 $\mu\text{S}/\text{cm}$
1.50% Caustic: 63,800 $\mu\text{S}/\text{cm}$
1.75% Caustic: 97,510 $\mu\text{S}/\text{cm}$
2.00% Caustic: 111,420 $\mu\text{S}/\text{cm}$
2.50% Caustic: 147,530 $\mu\text{S}/\text{cm}$

Did you know?

It takes 147,560 gallons of pure water to dilute 1,000 gallons of water with an EC of 111,420 $\mu\text{S}/\text{cm}$ to just 750.

Chemco Products has developed a special product line to help food plants lower the EC effluent by as much as 30-50%. This program utilizes several specially formulated chemicals that either replace existing cleaners or are used as additives to bases and acids, which in turn requires less of those chemicals for each wash.



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Monsoon ECR: is a concentrated detergent formulation specifically designed for cleaning CIP equipment. **Monsoon ECR** is an effective additive to alkaline cleaners in use/dilution to aid in soil penetration, wetting, suspension, emulsification and reduces the amount of alkalinity typically used for cleaning. Contributes <1,000 $\mu\text{S}/\text{cm}$ at use dilution to a facility's waste water system when used as directed.

Thunder ECR: is a highly concentrated liquid, wetting and penetrating agent designed primarily for use as an additive to alkaline cleaning solutions to improve detergency, to suspend and remove soils, and to control water films. **Thunder ECR** boosts the cleaning performance of alkaline and caustic cleaning solutions and is effective on a wide variety of soils and cleaning applications.

Triumph ECR: is a concentrated chlorinated detergent formulation specifically designed for cleaning cold process CIP equipment, even at temperatures less than 140 degrees. **Triumph ECR** is an effective cleaner aiding in soil penetration, wetting, suspension and emulsification. Contributes <1,200 $\mu\text{S}/\text{cm}$ at use dilution to a facility's waste water system when used as directed.

Membrane Cleaner ECR: is a concentrated detergent formulation specifically designed for cleaning CIP equipment. It is compatible with other Chemco cleaners and also stable with chlorine in cleaning solutions. **Membrane Cleaner ECR** is an effective additive aiding in soil penetration, wetting, suspension and emulsification. Contributes <100 $\mu\text{S}/\text{cm}$ at use dilution to a facility's waste water

Features and Benefits

Concentrated Product

Time Savings

Energy Savings

Defoamer

Improves Cleaning Effectiveness

Effective at Low Use Concentrations

Clean at Lower Caustic Concentrations

Reduces CIP Cycle Times

Clean at Lower Temperatures

Low Contribution to Discharge