

## **Everite Electrolyte Formulas and Application**

FORMULA ST – Most commonly used electrolyte. Contains Sodium Nitrate and Sodium Nitrite, corrosive effects - relatively mild. Chelated to reduce sludge buildup. Recommended for most metals including stainless steels, nickel alloys, carbon steels, aluminum, nickel/titanium and copper.

FORMULA SN – Contains Sodium Nitrate and Sodium Nitrite, corrosive effects - relatively mild. Same applications as Formula ST but NOT chelated. Will produce more sludge than ST but will not absorb metals and will stay clean longer with proper filtration. Usually requires active filtration such as a centrifuge.

FORMULA LC – Most aggressive electrolyte. Contains Sodium Chloride and Sodium Nitrite. Much more corrosive than Formula ST. Chelated to reduce sludge buildup. Recommended for titanium and zirconium alloys and high metal removal rates on stainless steels. Requires careful wash down of equipment to prevent corrosion.

FORMULA LT – Less aggressive than LC. Contains Sodium Chloride, Sodium Nitrate and Sodium Nitrite. More corrosive than Formula ST. Chelated to reduce sludge buildup. Recommended for titanium and zirconium alloys and Nickel/titanium alloys. Requires careful wash down of equipment to prevent corrosion.

FORMULA GT – Newest formula developed by Everite. Superior cutting ability on most metals including stainless steels, alloy steel, nickel alloys and titanium. Does not contain Sodium Nitrate or Sodium Nitrite. Will not produce hexavalent chrome in the electrochemical process. Corrosiveness depends on concentration but roughly equal to Formula ST. Chelated to reduce sludge buildup.

FORMULA TI – Contains Sodium Chloride and Sodium Nitrite, but NOT chelated. Much more corrosive than Formula ST. Will produce more sludge than ST but will not absorb metals and will stay clean longer with proper filtration. Usually requires active filtration such as a centrifuge. Recommended for titanium. Requires careful wash down of equipment to prevent corrosion.

FORMULA W – Contains Sodium Carbonate and Sodium Nitrite. Highly alkaline and more corrosive than Formula ST. Chelated to reduce sludge buildup. Recommended for tungsten and tungsten alloys. Requires careful wash down of equipment to prevent corrosion.

FORMULA EG – Less aggressive than ST Contains Ethylene Glycol and Sodium Nitrite. Chelated to reduce sludge buildup. Recommended for tungsten carbide tool grinding. Sold in liquid form. Will not dry out and crystallize after use.

