



## **ElectroKing™**

### **Aqueous ElectroCleaner**

#### **Product Description**

**ElectroKing™** is an aqueous cleaner that provides excellent degreasing properties when used either with or without a rectifier. (Use without a rectifier for cleaning zinc base metals)

**ElectroKing™** offers a low cost, easily maintainable and ecological alternative to other degreasers and cleaners without the use of petroleum based solvents.

**ElectroKing™** is supplied as a powder for ease of makeup and operation.

#### **Applications:**

Removes light oils and dirt from White Metal, Copper, Brass, Steel, Silver, Gold, Bronze, Nickel, and Zinc.

#### **Cautions: Read all safety information before using this product**

1. Use only in well ventilated area.
2. Wear gloves, safety goggles, apron.
3. Never add powder to water heated over 140°F (60°C)
4. Avoid prolonged contact with skin.
5. Do not mix with **Activator-T™** when below 100°F (32°C)

#### **Operating Conditions:**

Temperature	140°-160°F (49°-71°C).
Current Density	20-40 ASF or 2-6 volts.
PH	10-11
Beaker	Pyrex
Anodes	Stainless Steel

### Bath Set Up:

1. Fill a one quart or 1000 ml. beaker 80% full with water, and heat to 130 degrees F.
2. Pour 2 ounces or 50 grams of **ElectroKing™** into heated water and mix well until all the powder is dissolved.
3. Check solution temperature to assure it is between 130-150 degrees F.
2. Check connections from rectifier to anode and work to be sure the negative (-) and positive (+) wires are connected properly. The work should be charged negative (-), and the anode positive (+). Turn Rectifier On. **(If you are cleaning zinc metal do not turn rectifier on. Simply dip part into solution for 30-60 seconds.)**
3. ElectroClean at 2-6 volts for 15-60 seconds depending on size of part, amount of dirt on part, and type of metal cleaning. Part should be completely clean prior to further plating.
4. Larger parts require slightly higher voltage, while smaller parts require lower voltage. If part shows any burning such as dark deposits around the edges, or black all over, you are burning the part and must lower the voltage. If part is not cleaning after two minutes, voltage is too low, therefore, increase voltage slightly.
6. After electrocleaning, rinse part thoroughly in water and continue the plating process with **Activator-T™**.
7. If you are not going to continue the plating process immediately, then dry the part thoroughly. When you continue the plating process, re-activate the part in **Activator-T™** to assure better adhesion.
8. Change solution when cleaner becomes inactive or noticeably dirty.

### Discard & Replace:

**ElectroKing™** is a rugged bath and guidelines have been provided to help assure the long life of this bath. If, however, a problem should arise that cannot be solved by any of the above recommendations, or recommendations by our or any other qualified laboratory, the bath may need to be replaced: Transfer to a D.O.T. approved container. Check with local authorities for proper disposal.