



## Product Bulletin

Better Chemistry. **Better Business.**

**Aquaease™ EL 44**

**Product Code: 2051007**  
**Revised Date: 07/20/2009**

### **Aquaease™ EL 44**

**Aquaease™ EL 44** is liquid highly alkaline product developed for electro cleaning ferrous metals. It contains a unique wetting system that is stable in this high caustic containing product.

#### **ADVANTAGES**

- Contains no chelating agents.
- High conductivity.
- Readily soluble in cold water
- Can be adapted to an automatic
- Minimizes scale build-up on plate coils.
- Can be added to a hot solution
- Longer life than the conventional powdered products.
- Easily rinsed from parts.
- May be operated at a lower temperature range.

#### **TYPICAL APPLICATIONS**

- Electro cleaner in plating lines.

#### **OPERATING CONDITIONS**

Concentration: 5 to 20% (volume).  
Temperature: 100 - 200f (38 to 93c).  
Current density: 40 to 80 amps/ft<sup>2</sup> (4.0 to 8.0 amps/dm<sup>2</sup>).  
Equipment: mild steel tanks and heating coils.

Note: The above concentrations given are for a wide variety of applications. For the average jobs, the concentration may range between 8 to 11% (vol).

#### **CONTROL PROCEDURE**

1. Pipette 10 ml sample of **Aquaease® EI 44** solution into a 250 ml Erlenmeyer flask.
2. Add 50 mls of water to Erlenmeyer flask.



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3. Add 3 drops phenolphthalein indicator.
4. Titrate with 0.5 n HCl until the solution becomes colorless.
5. Record mls 0.5 n HCl used.

**% (vol) Aquaease™ EL 44 = 0.488 x MLS 0.5 N HCL Used.**

### CAUTION

Is an alkaline product and should be handled accordingly. Avoid skin, eye and oral contact. Wear protective clothing, gloves and goggles when handling the product. Flush exposed areas immediately with clean, cold water. Contact a doctor immediately in case of injury.

### WASTE DISPOSAL

Discharge rinse waters and spent solutions to a permitted waste water disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

### WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.