



Product Bulletin

Better Chemistry. **Better Business.**

Aquaease™ E

Product Code: 2001017
Revised Date: 04/01/2014

Aquaease™ E

Aquaease™ E is a general purpose, alkaline cleaner formulated especially for cleaning copper, brass and bronze. **Aquaease™ E** can also be used in cleaning ferrous metals and lead alloys.

ADVANTAGES

- May be used as a soak, electrolytic or steam cleaner.
- Free rinsing, even in hard water. Will not precipitate to form fatty acid films when acid dipped.
- Non-dusting, free flowing powder-safer and easier to use than ordinary alkaline products.

HOW TO USE

For electrolytic cleaning, use 4 to 8 oz/gal at 160-180°F. Use 20 to 40 amperes/sq ft., 4 to 6 volts, either anodic (reverse) current for up to 30 seconds, or cathodic (direct) current 1 to 2 minutes. When using cathodic current, complete cycle by making work anodic for 10 to 30 seconds.

The higher current densities are used on ferrous metals. When working up a fresh bath, clean cathodes (panel or tank) thoroughly. A slime build-up will interfere with electrolytic cleaning efficiency.

For soak cleaning, use 4 to 12 oz/gal at 140-190°F.

For steam cleaning, use concentrations of 1/2 to 3 oz/gal.

PHYSICAL DATA

Solubility in water.....appreciable

Appearance and odor..... white to brownish - granular

CONTROL

1. Pipette 10 mls of the cleaning solution into a 250 ml Erlenmeyer flask.
2. Add 25 mls of water and 4 drops of methyl orange indicator.
3. Titrate with .5 N hydrochloric acid until the color changes from yellow to orange-pink.



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CALCULATION

Titration X .46 = oz/gal Aquaease™ E

TEST KIT PROCEDURE

Factor (oz/gal) 0.4
Factor (gms/l) 3.0

1. Fill bottles 1/3 full of water. Add 1.0 ml of Aquaease™ E.
2. Add 4-8 drops Phenolphthalein Indicator.
3. Add N-94 solution drop-wise while mixing until the solution turns from pink to a colorless endpoint. Record number of drops.

Concentration of Aquaease™ E = Factor X number of drops N-94 Solution

CAUTION

Aquaease™ E is an alkaline material and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, gloves and goggles. Flush exposed areas immediately with clean, cold water. In case of injury, contact a doctor immediately.

WASTE DISPOSAL

Discharge to a 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.