



# Product Bulletin

*technicalservice@hubbardhall.com*

P.O. Box 790 • Waterbury, CT 06720-0790 • Tel: (203) 756-5521 • Fax: (203) 756-9017  
P.O. Box 969 • Inman, SC 29349-0969 • Tel: (864) 472-9031 • Fax: (864) 472-2117

## AQUAEASE® S 188 NE

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**AQUAEASE® S 188 NE** is a water soluble, non-silicated, phosphate free, non-etch, mildly alkaline soak cleaner for aluminum, aluminum alloys, and alclad stock. **AQUAEASE®S 188 NE** is formulated to remove stenciling inks, fabrication oils, and shop dirt without etching the aluminum.

### ADVANTAGES

- Will perform in hard water areas as well as it does in soft water areas.
- Safe to handle - contains mild alkaline material.
- Should be used in areas where the rinse between the soak cleaner and alkaline etch is quite poor or non-existent. A silicate bearing cleaner would present a problem in such a situation.
- Because **AQUAEASE®S 188 NE** is non-silicated, it will not interfere with subsequent conversion coatings or bright dips.
- Non-dusting.

### PHYSICAL DATA

Solubility in water:..... appreciable  
 Appearance and odor:..... white powder  
 pH ( 4 oz/gal ): .....9 < 10

### OPERATING CONDITIONS

Concentration: ..... 4 to 12 oz/gal (30 to 90 gms/l)  
 Temperature: .....140 - 190 °F (60 - 88 °C)  
 Time: .....2 to 6 minutes  
 Equipment:.....mild steel tanks and heating coils

Note: At the higher operating temperatures 170 - 190 °F (77 - 88 °C) there will be some slight gassing on the work's surface.

### CONTROLS

#### Titration Procedure

Factor (oz/gal)	1.0
Factor (gms/l)	7.5

1. Pipette 10 ml sample of **AQUAEASE®S 188 NE** into a 250 ml Erlenmeyer flask.
2. Add 50 mls of water and 4 to 5 drops bromophenol blue indicator to Erlenmeyer flask.
3. Titrate with 0.5 N HCl until color goes from blue to greenish-yellow.
4. Record mls 0.5 N HCl used.

**CONCENTRATION AQUAEASE®S 188 NE = FACTOR X MLS 0.5 N HCL USED**

## **AQUAEASE® S 188 NE**

### **Test Kit Method**

Factor (oz/gal)	0.63
Factor (GMS/l)	4.7

1. Fill bottle 1/3 full of water. Add 1 ml sample of **AQUAEASE® S 188 NE**
2. Add 10 drops methyl orange indicator.
3. Add N-94 solution dropwise – record number of drops till color changes from yellow to red-orange.

**CONCENTRATION AQUAEASE® S 188 NE = FACTOR X DROPS N-94 SOLUTION**

### **CAUTION**

**AQUAEASE® S 188 NE** is mildly alkaline. Avoid skin, eye and oral contact. Wear protective clothing, goggles and gloves when handling the product. If exposed, flush thoroughly with clear, cold water. In case of injury please contact a doctor.

### **WASTE DISPOSAL**

Discharge cleaner solution to a disposal unit. Adjust pH between 6 to 8 with a mineral acid. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

Note: Solutions of **AQUAEASE® S 188 NE** pH's are below 10.0

### **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.