



## Esma-GP E589

### Alkaline Ultrasonic Cleaner (Concentrate)

**DESCRIPTION:** Esma-GP E589 is a mildly alkaline blended detergent. When used in conjunction with Esma ultrasonic cleaning and rinsing units, Esma-GP E589 will aid in the removal of oils, dirt, grime, particulates, residues, fluxes, chemicals and solvents, etc.

Esma-GP E589 is designed for use in industrial ultrasonic cleaners and washers. Esma-GP E589 is suitable for use on stainless steel, not recommended on brass or aluminum alloys. Esma-GP E589 offers convenience and economy as a concentrated liquid cleaner and is suitable for automatic chemical feeding. Esma-GP E589 is free-rinsing and safe to use due to its mild alkalinity. Esma-GP E589 does not contain dyes, perfumes, or preservatives for complete rinsing of instruments and equipment

#### PROPERTIES:

Appearance	Clear/Slight Green
pH (100%)	10.5 – 10.8
Odor	Mild
Foaming	Low
Rinsing	Complete
Lbs./Gal	10.51 (Gravity: 1.26)

#### DIRECTIONS:

For use in ultrasonic tanks dilute to 5% - 10% solution (6 oz. per gallon)

For use in automatic ultrasonic wash machines dilute 1:128 (1 oz. per gallon)

Temperature: Ambient - **200°F**

#### PRECAUTIONS:

May cause irritation to the eyes and skin upon contact.

**\*\*AVOID EYE CONTACT\*\***

Wear goggles or safety glasses, wash thoroughly after handling. Fatal if swallowed. Keep out of reach of children. Refer to MSDS.



ESMA Incorporated  
450 Taft Drive  
South Holland, IL 60473  
800-276-2466

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#### **Maintenance Procedures for E589**

The cleaning bath should be monitored to determine when the solution can be recharged with detergent and when it is spent, mandating a fresh batch.

A very simple, yet effective, techniques is to monitor the pH of the solution.

E589 has a typical pH when mixed of 10.5. Assuming that the soils are acidic, inorganic, or saponifiable natural oils, the pH will drop as the cleaning solution is used up. Typically, when the pH drops 0.5 pH units, the detergent should be recharged by adding concentrated E589 to the mixture to increase the pH to the normal operating range.

It is only recommended to recharge the solution 1x times before disposing of the mixture and making a fresh batch.

\*\* It may not be worth risking inadequate, or even uncontrolled, cleaning simply to get every last penny of performance from a detergent solution.



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