



# Technical Data Sheet

Product Code: ASEA230 Revised Date: 12/9/2024

## Seaclean 230 EL

### Product Description

Seaclean 230 EL is a liquid surfactant package for the electro cleaning of steel, and stainless steel. This is a high alkalinity, non-chelated, heavy-duty electro cleaner formulated to be effective with or without reverse electro cleaning.

Seaclean 230 EL can also be used for combination soak and electrocleaning of other substrates, including zinc die-cast.

### Performance Features

- Add caustic as required by analysis
- Liquid concentrate – safer to use than powdered cleaners
- Non-hazardous product
- High conductivity for maximum gassing and cleaning effect
- Not sensitive to hard water
- Very economical system
- Can be used for rack and barrel plating
- Good rinsing properties

### Equipment Requirements

**TANKS:** Mild steel tank or any material suitable for hot alkaline solutions.

**HEATING:** Mild steel heating coils or immersion heaters may be used.

**VENTILATION:** Tanks should be ventilated to remove steam generated by the high temperature operation.

**Other optional equipment:** Automatic feeder and controller, oil skimmer, overflow system with holding tank to segregate floating contaminants.

### Product Make-Up

**Seaclean 230 EL:** Required for makeup and replenishment.

**50% CAUSTIC SODA:** Required for makeup and replenishment.

### Operating Conditions

#### FOR SOAK CLEANING OF ZINC DIE CASTINGS:

#### Optimum

**Seaclean 230 EL** 4 to 8 % v/v

**50% Liquid Caustic Soda** 0.5 to 1.0 % v/v

**Immersion Time:** 1 to 3 minutes

**Temperature:** 150 to 195°F (65 – 90°C)

#### FOR ELECTROCLEANING OF ZINC DIE CASTINGS

**Seaclean 230 EL**

4 to 8 % v/v

**50% Liquid Caustic Soda**

0.5 to 1.0 % v/v

**Immersion Time:**

30 to 120 seconds

**Temperature:**

130 to 150°F (55 to 65°C)



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## CURRENT DENSITY

Anodic(Reverse): 15 to 25 ASF  
Cathodic (Direct): X

## FOR ELECTROPLATING OF STEEL

Steel  
Seaclean 230 EL 2 to 3 % v/v  
50% Liquid Caustic Soda 3 to 10 % v/v  
Immersion Time: 30 to 120 seconds  
Temperature: 150 to 195°F (65 to 90°C)

## CURRENT DENSITY

Anodic(Reverse): 20 to 100 ASF  
Cathodic (Direct): 20 to 100 ASF

## Concentration Management

Reagents:

Phenolphthalein Indicator  
Standard 1.0 N Sulfuric Acid Solution

Procedure:

1. Pipette a 5 ml sample into a 250 ml Erlenmeyer flask and add 100 ml D.I. water.
2. Add 5 drops phenolphthalein indicator.
3. Titrate with 1.0 N Sulfuric acid to colorless.

Calculation:

(ml of 1.0 N Sulfuric Acid) = % v/v of 50% caustic soda

Add caustic as required by analysis and add Seaclean 230 EL in ratio to the caustic additions.

## Safety and Handling

Please review and understand the PRODUCT SDS before handling.

## Waste Treatment

Individual users should verify the nature of spent solutions to assure compliance with local, state, and federal regulations.



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