



Technical Data Sheet

Product Code: ASEA190 Revised Date: 12/9/2024

Seaclean 190 SL

Product Description

Seaclean 190 SL is a liquid surfactant package for the soak cleaning of steel, stainless steel, leaded steel and aluminum. This is a high alkalinity, heavy-duty soak cleaner formulated to be effective in hard water areas.

Performance Features

- Add caustic as required by analysis
- Liquid concentrate – safer to use than powdered cleaners
- Specifically formulated to not require rinsing prior to electro cleaning in Seaclean 230E
- Can be oil splitting or emulsifying depending on caustic level
- Not sensitive to hard water
- Very economical system
- Can be used for rack and barrel plating
- Good rinsing properties
- Will remove water-soluble oils, mineral oils, drawing compounds, chlorinated or sulfonated paraffin lubricants
- Nonylphenol and nonylphenol ethoxylate free

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 190 SL: Required for makeup and replenishment. Dilute to specific concentration prior to use.

50%CAUSTIC SODA: Required for makeup and replenishment when used for steel/stainless steel.

Operating Conditions

FOR STEEL:

	Optimum	Range
Seaclean 190 SL:	3 % v/v	2 - 6 % v/v
50% Liquid Caustic Soda:	4% v/v	3 – 6 % v/v
or		
Immersion Time:	usually 3 minutes	as required
Temperature:		120 – 185°F (65– 85°C)

FOR MILD ETCH SOAK CLEANING OF ALUMINUM:

	Optimum	Range
Seaclean 190 SL:	5 % v/v	2 - 7 % v/v
Immersion time:	usually 3 minutes	as required
Temperature:		150 – 185°F (50 – 85°C)



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Concentration and Application Method

Phenolphthalein Indicator

Standardized 1.0 N Sulfuric Acid Solution

Standardized 0.1 N Sulfuric Acid Solution (For aluminum procedure)

FOR STEEL:

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 190 SL in ratio to the caustic additions.

FOR MILD ETCH SOAK CLEANING OF ALUMINUM:

Procedure:

1. Pipette a 10 ml sample into a 250 ml Erlenmeyer flask and add 100ml D.I. water.
2. Add 5 drops phenolphthalein indicator.
3. Titrate with 0.1 N Sulfuric acid to colorless.

Calculation:

(ml of 0.1 N Sulfuric Acid) X 1.52 = % v/v of Seaclean 190 SL

Add Seaclean 190 SL as required by analysis.

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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