



Product Bulletin

Better Chemistry. **Better Business.**

Enerox® Cleaner Concentrate LQ-7W

Product Code: 2052085
Revised Date: 12.28.2016

Enerox® Cleaner Concentrate LQ-7W Liquid Additive For Soak & Electrocleaning Steel

Enerox® Cleaner Concentrate LQ-7W is a mildly alkaline concentrate, combined in specific ratios with liquid caustic soda, as a soak cleaner and electrocleaner. **Enerox® Cleaner Concentrate LQ-7W** is a unique blend of detergents, surfactants, and dispersants. It's formulation in conjunction with liquid caustic soda effectively soak cleans a wide variety of oils and grease from steel and copper parts, and facilitates scale, rust, and smut removal. **Enerox® Cleaner Concentrate LQ-7W** prepares the base metal for additional processing in a wide range of finishing cycles.

SPECIAL FEATURES

- Controlled Displacement of Oils for Continuous Removal
- Excellent Dispersion and Suspension of Soils
- Rapid, Efficient Cleaning in Standard Soak & Electrocleaning Cleaning Cycles
- Keeps Polypropylene Barrels Clean
- Suitable for Barrel, Rack, and Strip Lines
- Facilitates SPC and Other Analytical Methods

RECOMMENDED APPLICATION SOAK CLEANER

	Range	Optimum
Enerox® Cleaner Conc. LQ-7W	3 -7% v/v	5% v/v
50% Liq. Caustic Soda	1.5-5% v/v	3% v/v
Ratio LQ-7W: Liq. Caustic	1.4 – 2:1	1.7:1
Temperature	140 - 190° F (60 - 88°C)	165° F (74° C)
Time	2 - 5 minutes	As required
Agitation	Solution movement or mild air	As required





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RECOMMENDED APPLICATION ELECTROCLEANER

	Range	Optimum
Enerox® Cleaner Conc. LQ-7W	½ -4% v/v	2% v/v
50% Liquid Caustic Soda	5-8% v/v	6.5% v/v
Ratio Liq. Caustic: LQ-7W	2-10:1	3.25:1
Current Density (rack)	50-120 ASF	As required
Current Density (barrel)	5-20 ASF	As required
Temperature	160 - 190° F (71 - 88° C)	175° F (79° C)
Time	45 seconds – 3 minutes	As required
Agitation	Solution movement or mild air	As required

!! Don't premix Enerox® Cleaner Concentrate LQ-7W & 50% Liquid Caustic Soda!! The solution will not be stable. Always store and add both products separately.

The ratio of **Enerox® Cleaner Concentrate LQ-7W** and 50% Liquid Caustic Soda can be modified to provide simultaneous soak and electrocleaning in one process tank.

Note: The high alkalinity of **Enerox® Cleaner Concentrate LQ-7W** & Liquid Caustic Soda solutions will discolor brass parts. Aluminum and zinc parts **will** be severely etched. Your **Hubbard-Hall** sales representative or the corporate technical center will be pleased to recommend a suitable soak cleaner for these sensitive metals and electrocleaner for brass and zinc.

EQUIPMENT

Tank	Mild steel, reinforced polypro, or fiberglass
Heater	Steel Coil, steel immersion type, steam fed, or gas fired
Ventilation	Mechanical to maintain levels below permissible exposure limits
Agitation	Stirrer, pump, work movement, or mild air





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SOLUTION MAKE UP

Danger!! Liquid Caustic Soda is highly corrosive. Consult MSDS sheet before handling this material.

Be sure the process tank has been drained and cleaned. Fill to within two thirds of final operating volume with clean, warm water (100 - 120° F, 38 - 49° C). With good solution stirring, gradually add the required amount of **Enerox® Cleaner Concentrate LQ-7W**. Mix well.

TEST KIT METHOD

Materials needed:

- LaMotte Silica Kit
- 1 ml pipette
- 100 ml volumetric flask
- Pipette bulb

Procedure:

1. Insert the Silica Octa-Slide 2 Bar (4465-01) into the Octa-Slide 2 Viewer (1101).
2. Pipette 1 ml sample of cleaner solution into a 100 ml volumetric flask.
3. Fill flask to volume with Distilled water. Cap flask and mix well.
4. Fill test tube (0106) to the 5 ml line with the diluted cleaner solution.
5. Add 7 drops of Silica Reagent #1 (4571). Cap and mix by inverting 4 times.
6. Add 6 drops of Silica Reagent #2 (4467). Cap and mix. Wait 5 minutes.
7. Add 6 drops of Silica Reagent #3 (4468). Cap and mix. Wait 2 minutes.
8. Use pipet (0352) to add 2 drops of Reducing Reagent (6405). Cap and mix. A BLUE color will develop in 10 seconds.
9. Insert test tube into the Octa-Slide 2 Viewer. Match color to a color standard.*
10. Multiply the color standard number by 100 to determine ppm Si.
11. Using the chart, determine the %/volume Enerox Cleaner Concentrate LQ-7W.

* If the color is as dark or darker than color standard 10.0, remove enough solution from the test tube to bring the volume down to 2.5 mls. Add 2.5 mls Distilled water to return the volume to 5 mls. Insert this dilution in the Octi-Slide Viewer. Multiply the color standard number by 200 to determine ppm Si.



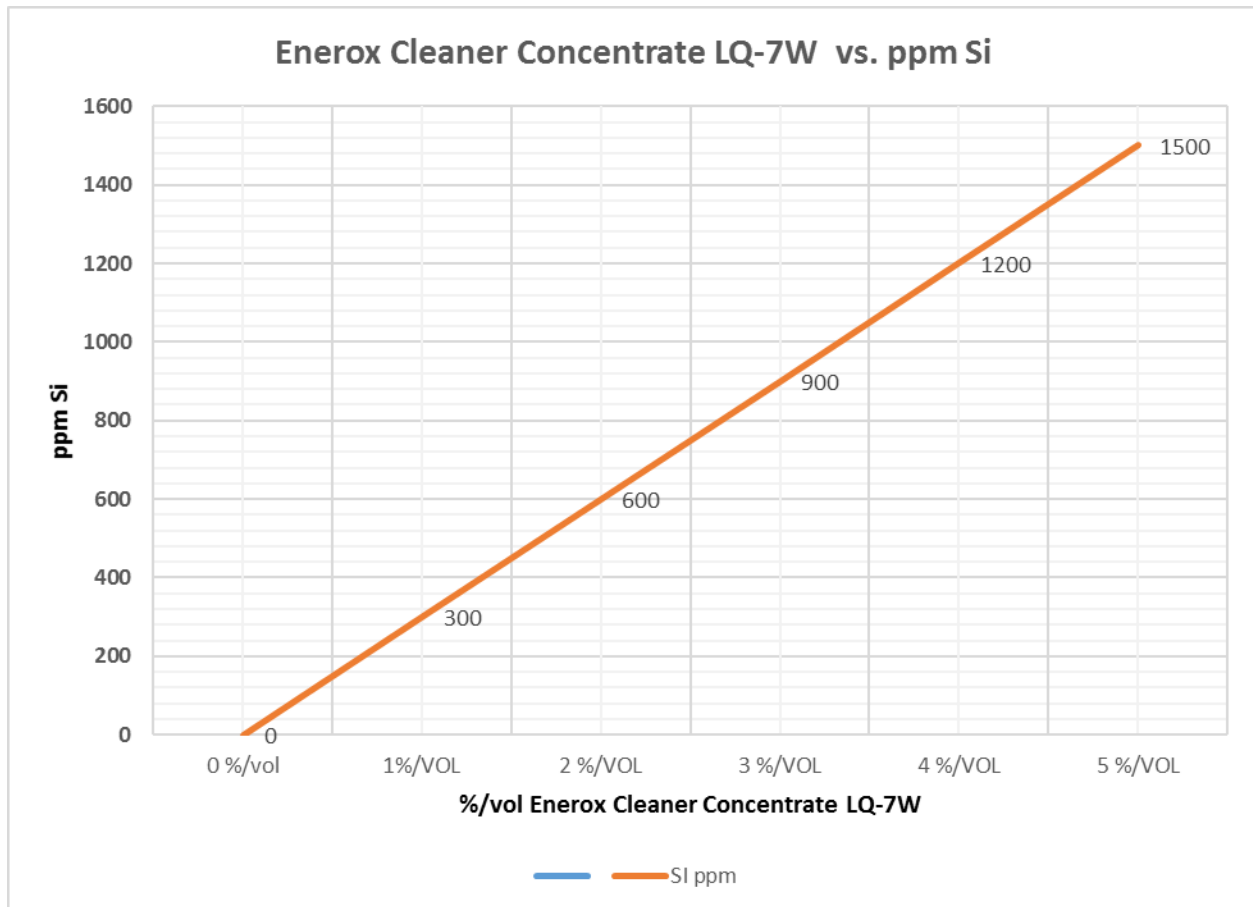


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WARRANTY

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.

