Hubbard-Hall Inc. • 563 South Leonard Street, Waterbury, CT 07608 • HubbardHall.com • 800-648-3412

Product Bulletin

Product Name: Lusterclean 11 L Product Code: 2052004 Revision Date August 23, 2021

Lusterclean 11 L

Lusterclean 11 L is a liquid concentrate which may be used as an electrolytic cleaner, soak cleaner or cleaner/deruster of ferrous metals in either rack or barrel line. This product could split mineral based oils, thereby extending the life of the solution.

Features & Benefits

Silicate Free	Ideal for cleaning prior to heat
	treating
Highly Chelated	Effective at de-rusting and
	descaling steel
High Conductivity	Effective for electro-cleaning

Physical Data

Specific gravity	1.28
Solubility in water	Complete
Appearance and odor	Dark brown, mild odor
pH 10% solution	12.0 – 13.0
pH concentrate	14.0

Operating Conditions

Immersion (Rack or Barrel)

Concentration	6% – 35%
Temperature	130°F – 200°F
Time	1 – 6 minutes
Equipment	Mild steel tanks and heating coils
Ventilation	Suggested

Notes.

1. Skimming off soils is recommended when Lusterclean 11 L is being used in a soak operation.









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2. When Lusterclean 11 L is being used as cleaner/deruster operating concentration should be in excess of 30% by volume.

Scale or rust removal for steel and iron by electrolytic cleaning

This is accomplished by an immersion method, anodic cleaning, or by periodic reverse cleaning.

Heavier rust and scale will require anodic or the periodic reverse electro-cleaning.

Anodic Electro-Cleaning

9
10% – 25%
130°F – 200°F
20 – 80 amps/ft ²
Graphite type AGX are preferred, or 316 Stainless Steel
1:1
Mild steel, Lined Steel preferred
316 Stainless Steel, bent pipe
Lucite, Tempron, or Polypropylene
Steel, Koroseal, Rubber, or Neoprene
Lined
Steel or Stainless Steel, Titanium, or steel
tip plastisol coated

Periodic Electro-Cleaning

Concentration	10% – 30%
Temperature	130°F – 200°F
Current Density	20 - 80 amps/ft ²
Electrodes	Graphite type AGX are preferred, or 316 Stainless Steel. Periodic cycle should provide equal time on each polarity. 5 – 10 second intervals have been found to be satisfactory cycle.
Polarity	Periodic cycle should provide equal time on each polarity. 5 – 10 second









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	intervals have been found to be a satisfactory cycle.
Anode to Cathode ratio	1:1

Note: Must end the cycle on the anodic side

Consumption of the cleaner is affected by reaction with soils, neutralization of fatty acids, and drag out of the cleaner solution. Additions to maintain desired concentration are recommended.

Titration Method

- 1. Pipette a 10 mL sample into a 250 mL Erlenmeyer flask and dilute with 50 mL of distilled water.
- 2. Add 4 drops Methyl Orange indicator and mix.
- 3. Titrate with 0.5 N Hydrochloric Acid until the color changes from orange to pink.
- 4. Record mL used.

Calculation

Concentration = mL of 0.5 N HCl x 0.84

Test Kit Method

- 1. Fill bottle 1/3 full of water. Add 1/2 mL of Lusterclean 11 L using syringe provided.
- 2. Add 8 to 10 drops Methyl Orange indicator
- Add 0.72 N Hydrochloric Acid dropwise and record number of drops required for color change.
- 4. Record the number of drops used.

Calculation

Concentration = # Drops of 0.72 N HCl x 1.11

Waste Disposal

Discharge rinse waters and spent solutions to a permitted disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.









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Caution

Lusterclean 11 L is an alkaline product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, goggles and gloves. Flush exposed areas immediately with clean cold water. Contact a doctor promptly in case of injury. Consult SDS for details.

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.

Our people. Your problem solvers.

For more information on this process please call us at 1-800-648-3412

or techservice@hubbardhall.com













