Product Bulletin
Product Name: Lusterclean™ 1 LF
Product Code: 2053014
Revision Date: October 2, 2024

Lusterclean™ 1 lF

Lusterclean™ 1 LF is a moderately alkaline liquid cleaner formulated for use in a pressure spray washer application or in an "AGI-DIP" type machine. Lusterclean™ 1 LF combines high detergency with low alkalinity and low foaming properties. Lusterclean™ 1 LF may be used to clean the following variety of metals: ferrous metals, copper, brass alloys, bronze alloys and some aluminum alloys.

Operating Conditions

In power wash applications pressure spray, scoop, or mechanical agitation. For spray applications, Lusterclean™ 1 LF is preferred because of its low-foaming characteristics.

Concentrations	1 to 10% (vol.). Usually, an average of 2 to 3% (vol.) Is common.
Temperature	120-180F (49-82C)

Note for cleaning aluminum: use low concentrations 1 to 2% (vol.) Unless some mild etch is tolerable, as may be the case in paint preparation lines which includes phosphatizing.

LUSTERCLEAN 1 LF is also effective as the first alkaline cleaner in phosphating lines. The cleaned surfaces are ideal for production of the smoothest and finest phosphate coatings.

Typical Cycles

A) Parts: Steel and aluminum small appliances.
Machine: Belt conveyor with sprays.
Cycle:

1. Lusterclean™ 1 LF - 3-4% by volume, 160F. (71C), 60 sec.
2. Spray rinse.
3. Spray Ahcophos 18Z (zinc phosphate type),140F. (60C) 2% by volume, 60 seconds.
4. Rinse and dry (chromic acid rinses optional in this step).

B) Parts: Steel bearings
Machine: Agitated lift
Cycle:

1. Lusterclean™ 1 LF 10% by volume, 180F (82C), 60 sec.
2. Lusterclean™ 1 LF 10% by volume, 170F (77C), 60 sec.
3. Cold water rinse, 20 seconds
4. HOT AIR DRY.

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Controls for Determining the concentration of Lusterclean 1 lf

TEST KIT PROCEDURE

A slight modification in the conventional Hubbard-Hall test kit operation procedure will be necessary for determining concentration (% vol.). Instead of the 1 ml dropper, it will be necessary to use a 5 ml sample.

1. Fill test bottle 1/4 full with water.
2. Add 5 mls Lusterclean™ 1 LF solution to the bottle, using the 5 ml pipette.
3. Add 3 drops M.O. indicator.
4. Add dropwise N 94 solution until solution turns from yellow to red-orange.
5. Record number drops N 94 solution used.

% (Vol) Lusterclean™ 1 LF = 0.33 x Number Drops N 94 Solution Used.

Titration Procedure

1. Pipette a 50 ml sample into a 250 ml Erlenmeyer flask and dilute with 100 ml water.
2. Add 4 drops methyl orange indicator and mix.
3. Titrate with 0.5 N HCl until a color change of orange to red occurs.
4. Record mls of 0.5 N HCl used.

Calculations:

Concentration (%Vol.) = 0.51 x MLS 0.5 N HCL Used.

Caution

Lusterclean™ 1 LF 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.

Waste Disposal

Neutralize solutions of Lusterclean™ 1 LF to a pH between 6 to 8 with a mineral acid. Use caution when adding the acid since neutralization generates heat. Discharge the neutralized solution to a sewer or settling lagoon. In order to be completely informed on the latest disposal regulations for your area, please contact the local authorities.

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

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