

BONDERITE C-AK LS NP-LT AERO

LIQUID ALKALINE CLEANER

(KNOWN AS TURCO LIQUID SPRAYEZE NP-LT)

Issued
10/15/2014

INTRODUCTION

BONDERITE C-AK LS NP-LT AERO (known as TURCO LIQUID SPRAYEZE NP-LT) is a straw colored liquid, developed to remove shop soil, lube oils, light drawing oils and drawing waxes from ferrous, aluminum, copper and titanium alloys. BONDERITE C-AK LS NP-LT AERO is also suitable for cleaning most magnesium alloys, zinc and cadmium, and is ideal for precleaning metals prior to phosphating and painting.

BONDERITE C-AK LS NP-LT AERO does not contain free caustic, readily rinses from metal surfaces with room temperature water and is effective from 32 to 88°C.

FEATURES

- Pratt & Whitney Approved
- General Electric Aircraft Engine Approved
- Operates at a wide temperature range, from 32° to 88°C
- Used at low concentrations
- Free rinsing from parts at room temperature water
- Solution is controlled by simple titration
- Contains less than 1 ppm lead, silver, zinc, tin, copper and cadmium
- Contains less than 50 ppm halogens
- Passes ARP 1755B, Category 10
- Passes ASTM F-945 (AMS 4911 and AMS 4916 Titanium)
- Passes ASTM F-519, Type 1A hydrogen embrittlement test

USE INSTRUCTIONS

Equipment: Tanks and associated equipment may be fabricated from mild steel or stainless steel. Stainless steel is preferred.

Spray Systems: Add **BONDERITE C-AK LS NP-LT AERO** at 3% to 10% by volume of water. Operate system at 32° to 88°C, with a contact time of 1 to 2 minutes, with a spray pressure of 20 to 30 psi. Rinse with cold to warm water. For automatic dispensing systems, set pump to maintain concentration as recommended above.

Dip Systems: Add **BONDERITE C-AK LS NP-LT AERO** at 5% to 25% by volume of water. Operate system at 32° to 88°C with a contact time of 5 to 30 minutes, with air or mechanical agitation. Rinse with cold to warm water. For automatic dispensing systems, set pump to maintain concentrations as recommended above.

CONTROL

Apparatus:

1. 205402 - Beaker, 250 mL
2. 205853 - Graduated cylinder, 100mL
3. 205700 - Buret, 25 mL
4. pH meter
5. Pipet, 100 mL, 20 mL



BONDERITE C-AK LS NP-LT AERO LIQUID ALKALINE CLEANER

(KNOWN AS TURCO LIQUID SPRAYEZE NP-LT)

Reagents:

205220 - Titrating Solution 20 (Sulfuric Acid, 0.1N)

Procedure:

1. The size of the sample depends on the expected concentration of the solution. The sample has to be cooled before obtaining the proper sample size.
2. For concentration greater than 7%, pipet 20 mL sample, and add 80 mL DI water in a 250 mL beaker. For
3. concentration below 7%, pipet 100 mL sample into a 250 mL beaker.
4. Titrate with TS 20 using a pH meter to pH 8.3.

Calculation:

1. For 20 mL samples:
2. $\text{mLs of TS 20} \times 1.085 = \% \text{ by volume BONDERITE C-AK LS NP-LT AERO}$
3. For 100 mL samples:
4. $\text{mLs of TS 20} \times 0.22 = \% \text{ by volume BONDERITE C-AK LS NP-LT AERO}$

DISPOSAL INFORMATION

Dispose of spent solution per local, state and regional regulations. Refer to Henkel MATERIAL SAFETY DATA SHEET for additional disposal information.

PRECAUTIONARY INFORMATION

WARNING! On contact causes eye irritation. May cause skin irritation.

BONDERITE C-AK LS NP-LT AERO contains silicate and surfactants. Avoid contact with eyes, skin and clothing. Do not take internally. Use with adequate (equivalent to outdoor) ventilation.

Protective clothing, such as a chemical face shield or goggles and gloves, made from alkaline resistant materials should be worn when handling this product. A NIOSH approved respirator equipped with a mechanical filter should be worn for mist conditions.

Transport and store in closed containers at temperature below 55°C.

Before using this product refer to container label and Henkel MATERIAL SAFETY DATA SHEET for additional precautionary, handling and first aid information.

Henkel Corporation | 32100 Stephenson Highway | Madison Heights, MI 48071
PHONE: (248) 583-9300 | FAX: (248) 583-2976 | www.henkelna.com/

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

