

**BONDERITE C-AK 6871
ALKALINE CLEANER
(KNOWN AS TURCO 6871)**

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1. Introduction:

BONDERITE C-AK 6871 (known as TURCO 6871) is a clear, straw-colored alkaline concentrate designed to be diluted with water to clean painted and unpainted exterior aircraft surfaces by spraying or foaming methods.

BONDERITE C-AK 6871 (known as TURCO 6871) offers the following features: -

1. Nonflammable in concentrated or diluted form
2. Will not stain or streak aluminum
3. Readily soluble in water
4. Free of chromate, phosphates and silicates
5. Readily rinses from aircraft surfaces with water
6. Will not craze Plexiglas or polycarbonate
7. Will not attack metals or well-bonded painted surfaces
8. Non-embrittling to high strength steels
9. Relatively low pH (8.7 - 9.5)
10. Low VOC (112 g/l)

2. Operating Summary:

<u>Chemical:</u>	<u>Operating Solution Preparation:</u>
BONDERITE C-AK 6871 (known as TURCO 6871)	Heavy duty cleaning 1 part BONDERITE C-AK 6871 (known as TURCO 6871) to 5-9 parts water
	Light cleaning 1 part BONDERITE C-AK 6871 (known as TURCO 6871) to 9-15 parts water
	Foam cleaning 1 part BONDERITE C-AK 6871 (known as TURCO 6871) to 9 parts water
<u>Operation and Control:</u>	
Titration for Control	
Heavy Duty Cleaning	11.2ml - 19ml (10% - 16.7% concentration)
Light Cleaning	6.5ml - 11.2ml (6.25% - 10% concentration)
Foam Generator	9.7ml - 12.7ml (9% - 11% concentration)



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3. The Process:

Heavy Duty Cleaning - Add 1 part BONDERITE C-AK 6871 (known as TURCO 6871) to 5-9 parts of water. Mix well. Apply by nonatomizing spray or mopping. Agitate surface with a soft bristle brushes or mops. Keep surfaces wet with cleaner. Rinse with high pressure, clean water.

Light Cleaning - Add 1 part BONDERITE C-AK 6871 (known as TURCO 6871) with 9-15 parts of water. Mix well. Apply by nonatomizing spray, mop or brush. Agitate surface with a soft bristle brush or mop. Rinse with high pressure, clean water.

Foam Generator - Add 1 part BONDERITE C-AK 6871 (known as TURCO 6871) to 9 parts water. Mix well. Apply by foam generator. If necessary, agitate surface with a soft bristle brush or mop. Rinse with high pressure, clean water.

4. Equipment:

Tanks and associated equipment should be fabricated from mild steel or stainless steel. Stainless steel is preferred.

5. Testing and Control:

Apparatus

Pipette 100ml
868826-Beaker 300ml
592477-Burette 25ml
pH meter
592494-Pipette filler

Reagents

592430-Titrating Solution 20 (0.1N Sulfuric acid)

Procedure

1. Obtain a sample of the process solution.
2. Pipette a 100ml sample of the process solution into the 300ml beaker using the pipette and pipette filler.
3. Add 50ml Deionized water to the solution in the 300ml beaker.
4. Titrate, using the pH meter, with Titrating Solution 20 to pH = 8.2.
5. Record the milliliters of Titrating Solution 20 used to reach pH = 8.2.

Process Solution Adjustment

Concentration of BONDERITE C-AK 6871 (known as TURCO 6871) solution = $\frac{\text{mls of titrant} + 1.2}{1.24}$

(To adjust the BONDERITE C-AK 6871 (known as TURCO 6871) process solution by 0.1ml (of Titrating Solution 20), add 0.081 gallons per 100 gallons of BONDERITE C-AK 6871 (known as TURCO 6871) process solution.)

6. Storage Requirements:

Store in a closed container away from excessive heat or direct sunlight.



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

8. Precautionary Information:

WARNING! Causes eye irritation. May cause skin irritation. Bonderite C-AK 6871 contains alkanolamines and detergents. 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, apron and boots, made from alkali resistant materials should be worn. A NIOSH-approved respirator should be worn during mist conditions. Before using this product, refer to container label and Henkel MATERIAL SAFETY DATA SHEET for additional precautionary, handling and first aid information.

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