



Technical Process Bulletin

BONDERITE C-AK VITKL AERO

HOT TANK CAUSTIC CLEANER

(KNOWN AS TURCO VITRO-KLENE)

INTRODUCTION:

BONDERITE C-AK VITKL AERO (known as TURCO VITRO-KLENE) is a brown granular mixture formulated to remove drawing compounds, lube oil, rust preventive compounds, and other tenacious soils from ferrous and titanium alloys prior to vitreous enameling and other processes that require a high degree of cleanliness.

BONDERITE C-AK VITKL AERO will provide a water-break-free surface when used as recommended. BONDERITE C-AK VITKL AERO is corrosive to aluminum, cadmium and zinc alloys, and should not be used on these alloys.

FEATURES:

- Approved to Boeing BAC 5749
- Nonflammable in concentrate or solution form
- Excellent cleaning, producing water-break-free-surfaces
- Low foaming when used as recommended
- Readily rinses from parts with hot water
- Easy to control by simple titration
- Free of chromate
- Low chloride

USE INSTRUCTIONS:

Tanks: Tanks and associated equipment may be fabricated from mild steel.

Mixing: Always add BONDERITE C-AK VITKL AERO in small quantities at a ratio of 60 to 75g/L. to cool agitated water. Never dump large quantities of product into water, since heat is liberated and may cause local generation of steam. Use mechanical agitation for optimum results. Operate tank from 70°C up to the boiling point. For cleaning engine parts, follow engine manufacturer's specification and approvals.

Rinsing: Rinse parts with hot water spray or overflowing hot water rinse as soon as they are removed from tank.

CONTROL:

Apparatus:

1. pH Meter
2. 205396-Beaker, 250 mL
3. Pipet, 20 mL. Class 'A'
4. Buret, 50 mL. Class 'A'



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Reagents:

1. N Sulfuric Acid (**Warning!! Check MSDS use safety glasses and protective clothing**)
2. Phenolphthalein Indicator, 1% in Ethanol

Procedure:

1. Pipet 20 mL of the BONDERITE C-AK VITKL AERO bath into a 250 mL beaker containing 50 mL in deionized water.
2. Add 3-6- drops of Phenolphthale in Indicator.
3. Titrate with 1.0 N sulfuric acid until the color of the solution changes From pink to colorless. (or to pH 8.0 if using a pH meter.)

Calculation:

mLs of 1.0 N sulfuric acid x 0.47 = oz/gal BONDERITE C-AK VITKL AERO

DISPOSAL INFORMATION:

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

PRECAUTIONARY INFORMATION:

DANGER! Contact may cause burns to skin and eyes.

BONDERITE C-AK VITKL AERO contains sodium hydroxide and silicate. 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 caustic-resistant materials must be worn when handling and using this product. A dust mask should be worn when handling dry product.

Always add BONDERITE C-AK VITKL AERO cautiously to cold, agitated water by broadcasting small amount onto the water. Never dump large quantities into water, since heat is liberated which may generate local pockets of steam, causing a steam eruption from the tank.



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Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and can cause death. Follow appropriate tank entry procedures (see ANSI Z117.1-1977).

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

NOTICE:

The above information and recommendations concerning this product are based upon our laboratory tests and field use experience with this or similar products. However, since conditions of actual use are beyond our control, any recommendations or suggestions are made without warranty, express or implied. Manufacturer's and seller's sole obligation shall be to replace that portion of the product shown to be defective. Neither shall be liable for any loss, damage, or injury, direct or consequential, arising out of the use of this product.

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