

ABCO AC-2 Aluminum Cleaner

ABCO Products of Sacramento

Primary Usage

ABCO AC-2 is a non-caustic non-silicated alkaline cleaner designed to effectively clean aluminum. AC-2 safely removes forming oils, marking inks, machining lubricants and shop soils. This material is designed for use in hot tanks where it emulsifies rather than floats the oily soils.

Application

Use ABCO AC-2 from 6 to 12 oz. per gallon of water at a temperature range of 120°F to 150°F. Follow with a rinse of running water or a hot rinse that is periodically dumped. The concentration of AC-2 should vary with the type of soil and soak time in the solution.

Chemical Composition

Phosphates and inhibitor detergents

Performance Data

ABCO AC-2 is an exceptionally free rinsing aluminum cleaner. It has a long bath life with a high tolerance for oils and greases. No special tanks are necessary. (mild steel can be used) This material should be used prior to etching, electroplating or to clean aluminum parts that have been machined to close tolerances.

Analytical Procedure

Electrometric Method

1. Pipette 10 ml sample into a 250 ml beaker
2. Dilute with distilled water to about 60-75 ml
3. Using a pH meter, titrate to a pH value of 4.0 with 0.1 N HCl
4. Calculations: $\text{Oz/gal AC-2} = (\text{ml } 0.1 \text{ N HCl}) \times (0.269)$
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Colorimetric Method

1. Pipette 10.0 ml of sample into a 250 ml Erlenmeyer flask and add from 50 to 80 ml distilled water.
2. Add 2-3 drops of Methyl Orange indicator
3. Titrate with standard 0.1 N HCl until red color turns to yellow or green.
4. Calculation: $\text{Oz/gal AC-2} = \text{ml HCl} \times 0.2637$

Caution: Avoid contact with skin, eyes and clothing. Wear protective equipment when handling.