

Ahcophos 10

Ahcophos 10 is a liquid acidic cleaner conditioner for ferrous metals, aluminum alloys, zinc coated steel, zinc die castings, copper, brass alloys and stainless steel alloys. This formulation removes light oils, rust, heat scale, weld scale, white rust, flux residues, oxides and tarnishes.

Also, Ahcophos 10 solution can serve as a conditioner by converting the metal's surface into a metal-phosphate during the cleaning operation. Ferrous metals, aluminum alloys and zinc surfaces are the metal surfaces that can be converted into a metal-phosphate, which serves as a paint base.

Features & Benefits

Cleans and phosphates	Two steps in one step
Phosphates various metals	Ferrous metals, aluminum alloys, and zinc surfaces

Operating Conditions

Concentration	2% – 40%
Temperature	75°F – 170°F
Time	As required
Equipment	Stainless steel, Polypropylene, Polyethylene, fiberglass or rubber lines tanks
Heaters	Stainless steel or nickel-plated steel piping

Hand Wiping Application

1. Wipe surface with 1% to 3% solution of Ahcophos 10 at room temperature.
2. Let dry for 1 to 2 minutes.
3. Wipe with cloth.

For hand applications, operator **MUST WEAR RUBBER OR VINYL GLOVES, GOGGLES AND PROTECTIVE CLOTHING.**



Titration Method

1. Pipette a 10 mL sample of Ahcophos 10 solution into a 250 mL Erlenmeyer flask and dilute with 50 mL of water.
2. Add 3 to 5 drops of Phenolphthalein.
3. Titrate to pink end point with 1.0 N Sodium Hydroxide solution.
4. Record mL used.

Calculation

$$\text{Concentration} = \text{mL } 1.0 \text{ N NaOH} \times 0.59$$

Test Kit Method

Equipment Required

4 oz mixing bottle
Syringe (3 mL)

Chemicals Required

4 oz 0.5%w/v Phenolphthalein Indicator
4 oz 0.72 N Sodium Hydroxide Solution

1. Using syringe, transfer ½ mL sample into mixing bottle.
2. Add approximately 20 mL water to bottle.
3. Add 5 to 8 drops of Phenolphthalein indicator.
4. Add 0.72 N Sodium Hydroxide solution dropwise until solution turns pink.
5. Record the number of drops used.

Calculation

$$\text{Concentration} = \# \text{ Drops } 0.72 \text{ N NaOH} \times 0.87$$

Waste Disposal

The Aquapure team will be able to assist with the proper disposal method.

Caution

Ahcophos 10 is a mildly acidic product. Wear protective clothing, gloves and goggles when handling this product. Flush exposed areas immediately with clean cold water. For eyes, flush repeatedly with water and call a physician.



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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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