

Ahcophos 12

A liquid acidic cleaner/conditioner for ferrous metals, aluminum alloys, zinc coated steel, zinc die castings, copper, brass alloys and stainless steel alloys. Formulated to remove light oils, rust, heat scale, weld scale, white rust, flux residues, oxides, and tarnishes. Can also serve as a conditioner by converting the metal's surface into a metal-phosphate during the cleaning operation.

Features & Benefits

Cleans and phosphates	One step
Phosphates various	Ferrous metals, Aluminum
metals	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 lined tanks
Heaters	Stainless steel or nickel-plated steel piping

Hand Wiping Application

- 1. Wipe surface with 1 to 3% (volume) solution of Ahcophos 12 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.











Product Bulletin Product Name: Ahcophos 12 Product Code: 2201020 Revision Date: July 27, 2022

Titration Method

Equipment Required 10 mL Pipette 50 mL Burette Burette stands 250 mL Erlenmeyer flask <u>Chemicals Required</u> 0.05%w/v Methyl Orange Indicator 1.0N Sodium Hydroxide

- 1. Pipet 10 mL of a cooled working bath sample into a 250 mL Erlenmeyer flask.
- 2. Add approximately 50 mL of water.
- 3. Add 3 to 5 drops of Methyl Orange indicator.
- 4. Titrate with 1.0 N Sodium Hydroxide to a yellow endpoint.
- 5. Record mL used.

Calculation

Concentration = mL 1.0 N NaOH x 0.826

*Note – Phenolphthalein indicator can be used with this same titration procedure and the endpoint is much easier to see. The color changes from clear to pink. However, if you decide to use phenolphthalein as the indicator the factor changes from 0.83 to 0.42.

Test Kit Method

Equipment Required	Chemicals Required
4 oz mixing bottle	4 oz 0.5%w/v Phenolphthalein Indicator
Syringe (3mL)	4 oz 0.72 N Sodium Hydroxide

- 1. Using syringe, transfer 1/2 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 dropwise until solution turns pink.
- 5. Record the number of drops used.

Calculation

Concentration = # Drops 0.72 N NaOH x 0.195

Waste Disposal

For proper disposal options, contact our Aquapure representatives.

Caution

Ahcophos 12 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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Cleaning the Hard to Clear







