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A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01

PC-16 ACID METAL CLEANER AND CONDITIONER FOR ALUMINUM

Accu-Labs PC-16 is an acid metal cleaner and surface conditioner that works on most metals including steel, aluminum, copper, brass and zinc. PC-16 removes oil, grease, dirt, chemical stains, rust, heat scale, and oxides and conditions the metal's surface - in one step. It can be used in a one-tank operation or, when conditions warrant, it may be applied by brushing or hand swabbing-with equally good results. PC-16 has excellent rinseability; is biodegradable to help reduce waste disposal problems; and is easy to work with because there are no obnoxious fumes.

Aluminum and aluminum alloy parts cleaned and conditioned in PC-16 are provided with uniformly low surface resistance for improved spot welding; and the surfaces are made more receptive to conversion coatings. Similarly, steel parts cleaned and conditioned in PC-16 are assured of significantly improved paint bonding and paint protection. PC-16 also is excellent for removing dirt and imbedded soils from stainless steel parts and for the uniform repassivation of their surface.

PC-16 conforms to Military Specification MIL-C-46487, Grade II; and to Federal Specification TT-C-490B, Method VI.

- Efficient, cost saving product Cleans and surface conditions metal parts in one step by immersion or wipe-on
- Effective on ferrous and non-ferrous metals One-product versatility for numerous applications
- Liquid concentrate Easy mixing

EQUIPMENT

Tank and Heating

Use stainless steel tanks, or use tanks lined with rubber or other material resistant to phosphoric acid solutions operated at temperatures up to 150°F (65°C). Use stainless steel or derated quartz immersion heaters.

Ventilation:

The work area (for either immersion or wipe-on application) should be adequately ventilated. Use a local exhaust system made of acid-resistant material.

Immersion:**PC-16 Bath Guidelines**

PC-16 Concentrate	5 to 25% by volume (recommend 20% when used with 628-CC Non-Chrome Conversion Coating)
Bath Temperature	130-150°F (55-65°C)*
Immersion time	½ - 2 minutes typical

*Best results occur within temperature range shown, but product may be used at lower temperatures for some applications.

Wipe-on:

If immersion is not practical, PC-16 may be applied by brushing (or hand swabbing) the area to be treated, allowed to soak for the required time, then rinsed off.

PC-16	5 to 40% by volume
Solution temperature	Room temperature
Contact time	2 to 5 minutes

MAKE UP & MAINTENANCE

Solution make up

1. Fill tank ½ full with cold water.
2. Slowly add required amount PC-16. Avoid spattering.
3. Add water to bring solution to working level and mix thoroughly.
4. Heat to operating temperature.

ANALYTICAL CONTROL

1. Pipette 10mL cooled sample of working solution into 250 mL Erlenmeyer flask.
2. Add 3 to 5 drops of phenolphthalein indicator.
3. Titrate with 2.0N sodium hydroxide to a red color change.

Calculation: % by vol. PC-16 = ml 2.0N sodium hydroxide x 1.15

SAFETY & HANDLING CONSIDERATIONS

Read and review the Material Safety Data Sheets for the appropriate health and safety warnings before use.

WARNING: PC-16 contains a high concentration of phosphoric acid; store in tightly closed containers away from heat and direct sunlight. Avoid contact with eyes, skin and clothing. PC-16 (concentrate or solutions) will cause burns to eyes and skin and may be fatal if swallowed. Avoid breathing solution mist or vapor.

When using PC-16, wear rubber gloves, rubber apron, rubber boots, safety goggles, and face shield. Use with adequate ventilation. Wash thoroughly after handling.

DISCLAIMER

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