# Spotless™ CP 4

***Chemical and Electrolytic Polish for Aluminum***

Spotless™ CP 4 is a ready-to-use chemical-polishing solution that smoothes and brightens aluminum. It leaves a lustrous finish by removing a thin layer uncovering a chemically pure aluminum surface. It can also be used as an electropolish for leveling, sizing and burr removal applications.

## Features/Benefits

- Chemical and Electrolytic Polishing in one product.
- Provides strong adhesion for further surface finishing.
- Reduces initial and operating costs compared to electro-polishing.
- Contaminants do not redeposit on the metal surface.
- “Chemical-machining” creates a brilliance, clarity, and depth not attainable with buffered surfaces. Uniform "electro-machining" creates smooth finish.

## Chemical Polish

| | |
|---|---|
| Concentration: | Ready-to-Use |
| Temperature: | 85 - 95°C |
| Immersion Time: | 30 seconds to 5 minutes |

## Electrolytic Polish

| | |
|---|---|
| Concentration: | Ready-to-Use |
| Temperature: | 75 - 90°C |
| Current: | 100 - 150 A.S.F. |
| Immersion Time: | 2 to 5 minutes |

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## Troubleshooting Guide

| Trouble | Possible Cause | Suggested Correction |
|---|---|---|
| Centre of specimen deeply etched | 1. no polishing film at centre of specimen | 1. increase voltage<br>2. degrease agitation |
| Pitting or etching at edges of specimen | 1. thick film | 1. decrease voltage<br>2. increase agitation |
| Sludge settling on surface | 1. insoluble anode product | 1. increase temperature<br>2. increase voltage |
| Roughness or matte surface | 1. insufficient or no polishing film | 1. increase voltage |
| Waviness or streaks on polished surface | 1. insufficient time<br>2. incorrect agitation<br>3. inadequate preparation<br>4. too much time | 1. increase or decrease agitation<br>2. improve preparation<br>3. increase voltage and decrease time |
| Stains on polished surface | 1. attack after polishing current is off | 1. remove specimen while current is still on |
| Unpolished spots (bulls eyes) | 1. gas bubbles | 1. increase agitation<br>2. decrease voltage |
| Phase in relief | 1. insufficient polishing film | 1. increase voltage<br>2. better preparation<br>3. decrease time |
| Pitting | 1. Polishing too long<br>2. Voltage too high | 1. better preparation<br>2. decrease voltage<br>3.decrease time. |

*The data and statements contained in this bulletin are based on testing information and are believed to be accurate and reliable. This bulletin is not a Guarantee or Warranty, express or implied regarding the products use. The product is sold on the condition that the purchaser will do their own tests to determine the suitability of the product in a particular application.*

**READ THE SDS BEFORE USING THIS PRODUCT**