CRESTCHEMICALS

PCC-6
Aluminum Chromate Conversion Coating

Description

Crest PCC-6 is a powdered chromate conversion coating that was developed for major aircraft manufacturing companies, aluminum extruders, and aluminum aircraft. This product will impact on most aluminum surfaces a yellowish-golden iridescent chemical film for protection against corrosion and improvement of paint adhesion.

Specifications

This product meets or exceeds all qualifications for the following:

- MIL-C-81706 (S/S by MIL-DTL-81706B) Type I, Class 1A for maximum protection against corrosion, painted or unpainted.
- MIL-C-5541C specifies the use of materials qualified under MIL-C-81706
- Form II Powder
- TT-C-490F Type VI Class B

Method of Use

Application Methods

- Immersion
- Spray
- Brush

Mixing Instructions

1. Add 1.2 to 2.5 ounces of PCC-6 to each gallon of water in the tank.
2. Adjust the pH to 1.9 to 2.4. Usually a new bath will be within this pH range.
   - If the pH is low, add 1 cup of Crest PCC-6 Alkaline Additive for each 100 gallons and stir well. If the pH is not correct, continue adding Crest PCC-6 Alkaline Additive until the pH is correct.
   - If the pH is high, add 1 cup of Crest PCC-6 Acid Additive for each 100 gallons and stir well. If the pH is not correct, continue adding Crest PCC-6 Acid Additive until the pH is correct.
3. Immerse the part for 45 seconds.
4. **Drying:** The final drying may be done by most conventional methods. Do ***not*** dry the part above 150°F; the corrosion protection decreases at temperatures above 150°F.
5. If painting is necessary, allow the metal surface to dry and proceed with painting procedure within 48-72 hours; if the coated surfaces are stored for extensive periods before painting, extra cleaning operations are needed to reactivate the surface. Refer to MIL-C-5541C for cleaning procedures.

Equipment

- All tanks that contain Crest PCC-6 must be made from either stainless steel or plastic.

Adjustments

- If the color is not as dark as you want, add a small amount (4 oz. / 55 gal) of Crest PCC-6 Acid Additive to the drum to lower the pH and get a darker yellow color.
- If the part is too yellow, shorten the time to 30 seconds.
- If not as dark as one wants, lengthen the time to 60 seconds.

Caution

This product contains sodium dichromate. This product may cause fires if the product comes into contact with combustible solvents. Avoid contact with skin, eyes and clothing. Protective clothing such as face shields, rubber gloves, aprons and boots should be worn when handling this material. Refer to product labels and Safety Data Sheets for precautionary and handling information. Product should be stored at no lower than 50°F and no higher than 100°F.

Warranty and Liability Disclaimer

The above information and recommendations concerning this product are based upon our laboratory tests and field use experience; however, since conditions of actual use are beyond our control, any recommendations, or suggestions, are made without warranty, expressed or implied. Manufacturer's and seller's sole obligation shall be to replace that portion of the product shown to be defective. Neither shall be liable for any loss, damage or injury, direct or consequential, arising out of the use of this product.

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