



# CHEM PROCESSING, INC.

*Platings & Coatings for Industry*

## Type II Anodizing: Sulfuric Acid

Type II Anodizing, architectural anodizing, is an electrochemical process that creates an aluminum oxide film by rapidly controlling the oxidation of an aluminum surface. The resulting aluminum oxide film is electrically non-conductive and porous. The active ingredient of Type II Anodizing is sulfuric acid. Type II Anodizing provides excellent corrosion protection, improved wear characteristics, and is an excellent base coat for additional coating applications. The major benefit of Type II Anodizing is the ability to add a myriad of decorative colors and dyes. Chem Processing, Inc. does not bright dip finish, but does offer nickel acetate, hot water, and chromate seals.

### Chem Processing Inc. Type II Anodizing Plating Capabilities:

- Typical Formed Thickness is 0.00005 to 0.0002 in.
- Rack Anodizing
- Available Masking for Selective Surface Anodizing
- Salt Spray Corrosion Test (minimum 336 hours of salt spray resistance)
- Thickness Analysis

### Applicable Specifications:

MIL-A-8625F Type II	MIL-STD-171D (7.1.1 & 7.1.2)
MIL-STD-186 E (202 & 203)	MIL-F-14072B (E511)
ASTM B5580 (Type B,C,D,E,F)	AMS 2471 & 2472
MIL-STD-193K & 194A	ASTM B117

### Properties of Type II Anodizing:

- **Corrosion Resistance:** resistant to salt-water and atmospheric attacks.
- **Decorative Appearance:** Luster can range from dull to high depending on the base metal. The brighter the base metal, the brighter the anodize.
- **Electrical Insulation:** Aluminum oxide is a dielectric.
- **Color Flexibility:** Wide spectrum of colors can be obtained.
- **Paint Adhesion:** Offers a chemically active surface for most paint systems.
- **Adhesive Bonding:** Improves bond strength and durability.
- **Emissivity:** Films with a thickness >0.00032 in. increases the emissivity of the aluminum.

**Chem Processing Inc.** is committed to excellence in metal finishing. Chem Processing Inc. uses their engineering expertise and computerized process controls to **exceed their customer's expectations** when adherence to strict thickness specifications is essential.