

# Chemical Film Plating

## Automated Finishing Technology (AFT)

Chemical Film, also known as "Alodine" or "Iridite", is a common plating process used for the protection of aluminum surfaces. This chemical process produces a corrosion resistant and protective film on aluminum and aluminum alloys - with or without color. Darker coatings usually provide the best protection and colors are classified as "clear" or "gold". The Classification per MIL-C-5541 of the aluminum part is determined by the amount of exposure in the Chemical Film solution.



**RoHS Compliant** - AFT offers both traditional hexavalent Chemical Film and RoHS hex-free Chemical Film coatings. We have selected MacDermid Iridite NCP non-chrome Passivate, as this process has been developed in response to the ELV, RoHS and WEEE directives. Iridite NCP

does not contain lead, cadmium, chromium (hexavalent or trivalent), mercury or PBB/PBDE compounds. Iridite NCP is an environmentally-friendly process that can be used as a final finish on aluminum, as well as a paint base, high performance topcoat, powder coat, lacquers, or as a bonding base for rubber. Iridite is always clear.



Centrally located in the Dallas/Forth Worth area, we provide service to our customers locally and throughout the United States.

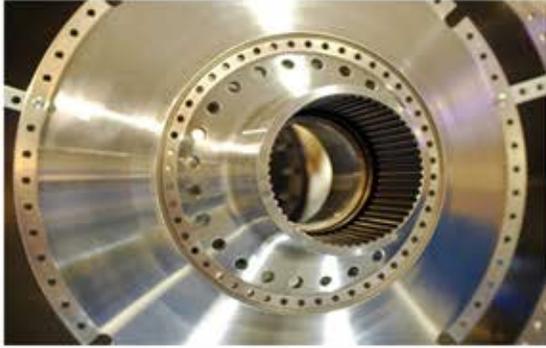
## Why AFT?

- High-Quality Plating
- Ability to Plate Large Pipes & Parts
- Shorter Lead Times
- Excellent Customer Service
- Competitive Prices
- Centrally Located



MIL-DTL-81706B  
(Type 2B 1A, B&C)  
MIL-DTL-5541F

Can meet most private specifications



Customer service and quality are AFT's highest priorities. All processes are verified and guaranteed with certification sheets upon request.

## Chemistry & Production

- Production Tanks - 10 ft. x 2 ft. x 4 ft.
- Chemistry for traditional hexavalent Chemical Film is MacDermid Iridite 14-2.
  - Qualified under specifications:  
MIL-DTL-81706B  
Class 3, Form II, Method C
- Chemistry used for RoHS non-chrome is MacDermid Iridite NCP.
  - Qualified under specifications:  
MIL-DTL-81706B  
Class 1A, Form II, Method A,B, & C  
Class 3, Form II, Method C



## Advantages of Chemical Film

- Conversion coatings are economical
- Minimize surface oxidation of aluminum parts
- Thin coats provide minimal dimensional change
- Great primer for paint adhesion and other topcoats
- Easy to apply and offer valuable properties to extend the service life of parts

AFT offers over 16 quality specified plating processes, including: silver, black oxide, zinc nickel, phosphate, tin, matte tin, and Xylan® coatings.

Visit our website, [www.AFT-Corp.com](http://www.AFT-Corp.com) for a complete list of plating processes, or call us at **972-988-1999** to find out what AFT can do for you.

