



## **Dav-Tech CHROMATE CONVERSION COATING**

*Coating on Aluminum and Aluminum Alloys  
(e.g. Alodine, Iridite, Chemical-film)*

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**Fact:** *Our unique tank size capacity makes Dav-Tech the chromating facility of choice  
Among leading defense contractors.*

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### **Welcome to Dav-Tech Chromate Conversion.**

When aluminum and aluminum alloys are immersed in a controlled chromic acid bath with special additives, a chemical conversion reaction takes place at the surface of the metal. This reaction produces a complex, non-crystalline, non-porous coating consisting of a thin aluminum oxide film with entrapped chromates and dichromates. The corrosion resistant properties of the coating are primarily due to the chromates, specifically the hexavalent chromium.

Various chemical activators are used to enhance the formation of the coating. Depending upon the desired performance characteristics of the chromate film, the chromating bath is often modified by changing these activators.

### **Dav-Tech furnishes Yellow and Clear Chromate.**

At Dav-Tech all chromating is processed and tested in accordance with Military specification MIL-C-5541. The Chemistry of the bath formulation is controlled by MIL-C-81706, as required by MIL-C-5541.

### **Dav-Tech has the capacity to meet your exact requirements.**

As one of the largest chromating facilities in the industry, we can accommodate a wide range component sizes, from the smallest electrical contact to the largest aerospace weldment.

As with our other products, we offer design assistance to minimize or eliminate problems resulting from entrapped chemicals and improper fixturing.

#### **RoHS Compliant Conversion Coating**

**We are pleased to now offer a Conversion Coating which is compliant with both the ELV, RoHS and WEEE Directives. This coating is compliant with MIL-C-5541 and has all of the same benefits as our conventional Chromate Conversion Coating.**

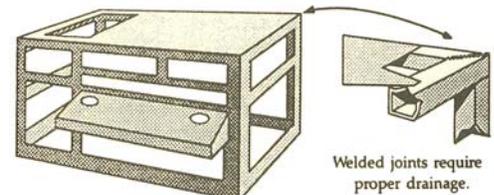
### **Benefits of Dav-Tech Chromating.**

- Protection from corrosion and wear
- A bonding agent for paint and adhesives
- A lubrication carrier
- Decorative Final finish
- Electrical conductivity
- In most cases it does not affect critical dimensions.

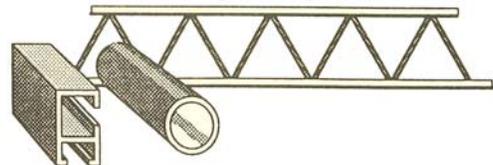
### **Typical applications for Dav-Tech Chromate.**

#### **Aluminum frames and weldments for the computer and defense industries.**

Dav-Tech chromating process effectively deals with poor drainage and entrapped chemicals, a complex problem common to frames made of welded tubing and pipe.



**Aluminum extrusions, tubing, and structural assemblies** can be chromated in lengths of 16 to 20 feet and cross-sections of 4 to 5 feet. **Larger capacities can be accommodated upon request.**



## **Dav-Tech Plating Inc.**

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