

CHEM FILM

Chem Film, sometimes called by the trade names Alodine or Iridite, is a chemical conversion coating that is used to passivate aluminum. It protects aluminum substrates from corrosion and serves as a base for organic coatings while leaving dimensions unchanged. Chem Film is applied by dipping, spraying or brushing. It is sometimes applied alongside Type II Anodizing and can be used to repair minor damage to anodized surfaces. The resultant coating is dull, clear yellow or grey, and not intended for decorative use.

Chem film per MIL-DTL-5541 Class 3 is electrically conductive. The best corrosion protection is provided by chem film per MIL-DTL-5541 Class 1A.

Chem Processing Inc. Chem Film Capabilities:

- Available Masking for Selective Surface Chem Filming
- Salt Spray Corrosion Test (minimum 168 hours of salt spray resistance)
- RoHS compliant Chem Film (MIL-DTL-5541 Type 2)
- Repair of anodized surfaces (per MIL-A-8625)
- Bulk or individual processing
- Application of CARC or other coatings over chem film base
- Adhesion testing

Applicable Specifications:

MIL-DTL-5541

MIL-C-81706

AMS-2474

AMS-C-5541

Processes performed to other customer specifications as requested.

Typical Chem Film Applications:

- **Aerospace/Aviation:** brush-on chem film is used in the repair of anodized surfaces and used general corrosion protection on all manner of aluminum aircraft components
- **Defense/Military:** chem film is used as a base coat for CARC paint on ordnance, vehicles and tactical equipment
- **Maritime/Naval:** chem film provides corrosion protection in saltwater environments
- **Electrical Industry:** chem film is used for corrosion protection on housings



All processes comply with industry specifications including ASTM, SAE, MIL, etc., as applicable for the particular process involved and are performed under ISO 9001:2000/AS9100B standards. Specific company approvals may also apply.



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