

Application Data  
**TBAc<sup>TM</sup> Solvent**



Tertiary Butyl Acetate  
 Aircraft Maintenance Chemical Testing

**ASTM F1110**

Sandwich Corrosion

Aluminum panel QQ-A-250/4; AMS 4037

Control rating: 1 (very slight corrosion or discoloration) TBAc rating: 1

Conforms

**ASTM F483**

Total Immersion Corrosion Test for Aircraft Maintenance Chemicals

Alloy	Wt. Loss (mg)		Wt. Loss (mg/cm <sup>2</sup> /24hrs)
	24hrs	168hrs	
AMS 4041 Clad Aluminum QQ-A-250/5	<0.1	<0.1	<0.01
AMS 4049 Clad Aluminum QQ-A-250/13	<0.1	<0.1	<0.01
AMS 4037 Bare Aluminum QQ-A-250/4 anodized per MIL-A-8625 Ty 1	<0.1	<0.1	<0.01
AMS 5046; grade 1020 steel	0.2	0.3	0.01
AMS 5046; grade 1020 steel; cadmium plated per QQ-P-416 Ty 1, Cl3	0.3	<0.1	0.01
AMS 4911 titanium 6Al-4V	0.1	0.1	<0.01

**ASTM F945  
(Method A)**

Stress Corrosion of Titanium Alloys by Aircraft Engine Cleaning Materials  
(Method A)

<u>Titanium Alloy</u>	<u>Observation</u>	<u>Result</u>
AMS 4911	No cracking observed	Conforms
AMS 4916	No cracking observed	Conforms

**ASTM F519  
(Type 1A.1)**

Method for Mechanical Hydrogen Embrittlement Evaluation of Plating Processes and Service Environments (Passive Chemicals)

Plating: Low-embrittling cadmium plate in accordance with Table II; Treatment B of ASTM F519

Modification:

Load (Type 1a.1): .....75% notched tensile fracture load

Exposure Time: .....200 hours

..... No failures occurred within 200 hours.

**Stress Cracking of Acrylic Plastics in Contact with Liquid or Semi-Liquid Compounds**

Test Material: MIL-P-83310 Polycarbonate  
Exposure: 3000 psi for 30 minutes

Specimens failed upon contact with sample.

Test Material: MIL-P-5425 Type A cast acrylic  
Exposure: 3000 psi for 8 hours

Specimens failed within 2 hours.

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