

# SMI, Inc.

12219 SW 131 Avenue  
Miami, Florida 33186-6401 USA

Phone: (305) 971-7047  
Fax: (305) 971-7048

---

Dilution: As received

Page 1 of 3

Douglas Aircraft Company Customer Service Document  
CSD #1, Revised August 2, 1988  
Type V: Materials and Procedures for Polishing Aluminum Surfaces

Residue	<u>Conforms</u>
Sandwich Corrosion	<u>Conforms</u>
Stress Cracking Test on Acrylic Plastics	<u>Conforms</u>
Immersion Corrosion, Aluminum	<u>Conforms</u>
Hydrogen Embrittlement	<u>Conforms</u>

Respectfully submitted,



Patricia D. Viani, SMI Inc.



**Residue Test:** The material shall leave no residue or stain when tested in accordance with ASTM F 485.

**AMS 4911: As received: PASS**

**AMS 4049: As received: PASS**

Result Conforms

**Sandwich Corrosion Test:** The compound shall not cause significant corrosion of aluminum alloy faying surfaces when tested in accordance with the following conditions of temperature and humidity:

- \* Alternate intervals of 16 hours in the humidity cabinet and eight hours in an oven. Beginning with the humidity cabinet exposure, the cycling test shall be continued for a total of seven days.
- \* The humidity cabinet shall be maintained at 100° ± 2°F (37.8° ± 1.1°C) and 98 to 100 percent relative humidity.
- \* The oven shall be maintained at 100° ± 5°F (37.8° ± 2.8°C)

**Corrosion Rating:**

- 0 = No visible corrosion
- 1 = Very slight corrosion or discoloration
- 2 = Slight corrosion
- 3 = Moderate corrosion
- 4 = Extensive corrosion

Corrosion on any panel exceeding that obtained using tap water shall be considered excessive.

ALLOY	As Rec'd	CONTROL
2024-T3 Bare/Alodined per MIL-C-5541	1	1
2024-T3 Bare/Anodized per MIL-A-8625	1	1
2024-T3 Clad/Alodined per MIL-C-5541	1	1
2024-T3 Clad/Anodized per MIL-A-8625	1	1
7075-T6 Clad/Alodined per MIL-C-5541	1	1
7075-T6 Clad/Anodized per MIL-A-8625	1	1

Result Conforms



Stress Cracking Test on Acrylic Plastics: The compound shall not cause crazing, cracking, or other attack on acrylic based plastics when tested in accordance with ASTM F 484, using Type C material at a stress level of 4500 psi.

***As received: No crazing, cracking, or other attack.***

Result Conforms

Immersion Corrosion Test: The average weight loss of aluminum alloy specimens shall not exceed 10 milligrams per coupon when tested per ASTM F 483. The aluminum alloy 7075-T6 alclad coupons shall conform to Federal Specification QQ-A-250/13 Temp-T6, with corners and edges smoothed.

***As received: < 0.1 mg after 168 hours (no visible corrosion)***

Result Conforms

Hydrogen Embrittlement: Hydrogen Embrittlement testing shall be in accordance with ASTM F 519, Type 1C.

***As received: No failures within 150 hours.***

Result Conforms