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Attn: Bobbie Pettit  
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Date: 17-Jun-2010

SMI/REF: 1005-424A

Product: AERO-GREEN 4025 AIRPORT HIGH PRESSURE CLEANER  
(received 19-May-2010)

Dilution: As received and 8:1

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BOEING 06-17487 REVISION R  
Exterior and General Cleaners and Liquid Waxes,  
Polishes and Polishing Compounds

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Sandwich Corrosion Test	<u>Conforms</u>
Acrylic Crazing Test	<u>Conforms</u>
Paint Softening Test	<u>Conforms</u>
Hydrogen Embrittlement Test	<u>Conforms</u>

Respectfully submitted,



Patricia D. Viani, SMI, Inc.

Client: Hi-Lite Solutions, Inc.

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Sandwich Corrosion Test: Specimen preparation, testing, and interpretation shall be in accordance with ASTM F1110 using the following materials and with the following exceptions:

1. Reagents and materials exception:
  - (1). Clad 7075-T6 aluminum alloy in accordance with QQ-A-250/13 (AMS 4049 or AMS-QQ-A-250/13 optional) (2024-T3 Alclad specimens are neither required nor optional.)
  - (2) Bare 7075-T6 aluminum alloy in accordance with QQ-A-250/12 (AMS 4045 or AMS-Q-A-250/12 optional) anodized in accordance with BAC 5019 or MIL-A-8625, Type I. Anodize shall be sealed. (2024-T3 nonclad specimens are neither required nor optional).
  - (3) Distilled or deionized water may be used in place of ASTM F1193, Type IV reagent grade water for control specimens.
  - (4) The filter paper may be Whatman No.5 or equivalent in place of Whatman GFA glass fiber paper.
2. Procedure exceptions:
  - (1) The filter paper strips shall be 1 by 3 inches and shall be placed in the center of the sandwiched specimens.
  - (2) Each sandwich specimen shall be held together with waterproof tape, with no more than 1 piece of tape (maximum width 0.75 inch) on each of two opposite edges.
3. Interpretation of result exceptions:
  - (1) Leaching or lightening of the chromate sealed anodize coating shall not be cause for rejection.
  - (2) Deposits or residues from the material being tested that are not products of corrosion of the test panel surface shall not be cause for rejection.
  - (3) Special procedure for evaluation of fire extinguishing foams and liquids.
  - (4) Panels shall have a rating of 1 (no more than 5 percent of the surface area shall be corroded) or better in accordance with ASTM F 1110. The preferred method of determining the corroded area is by using image analysis. Other means approved by the purchaser may be substituted.
  - (5) Any corrosion in excess of that shown by the control group shall be cause for rejection.

	Bare 7075-T6 (AMS 4045) Anodized per SAC 5019 (chromate seal) or MIL-A-8625 Type I with Dichromate Seal	Clad 7075-T6 Aluminum (AMS 4049)
<b>CONCENTRATE</b>	<b>1</b>	<b>1</b>
<b>DILUTE</b>	<b>1</b>	<b>1</b>
<b>CONTROL</b>	<b>1</b>	<b>1</b>

Result. Conforms

**Acrylic Crazeing Test:**

The material being tested shall not craze, crack, or etch acrylic test specimens when tested in accordance with ASTM F 484 using Type C (stretched acrylic plastic in accordance with MIL-P-25690) stressed to an outer fiber stress of 4500 psi.

**Type C (M/L-P-25690) Concentrate: No crazing, cracking or etching.**  
**Dilute: No crazing, cracking, or etching.**

Result Conforms

**Paint Softening Test:**

a. Testing shall be in accordance with ASTM F502 using the following coating systems.

Paint system 1: BMS 10-79, Type II primer applied in accordance with BAC 5882 plus BMS 10-60, Type II enamel in accordance with BAC 5845.

Paint system 2: BMS 10-79, Type III primer applied in accordance with BAC 5882, plus BMS 10-100 coating in accordance with BAC 5795.

b. Three specimens conforming to Section 13a.(1) and three specimens conforming to Section 13a(2) shall be used for each test condition.

c. The material being tested shall not produce a decrease in film hardness greater than two pencils, or any discoloration or staining.

NOTE: Slight darkening of the BMS 10-100 surface is acceptable.

**Concentrate:** Paint system 1: *Q pencil hardness change after 24 hour post-exposure dry time.*  
Paint system 2: *Q pencil hardness change after 24 hour post-exposure dry time.*  
*Slight discoloration.*

**Dilute:** Paint system 1: *Q pencil hardness change after 24 hour post-exposure dry time.*  
Paint system 2: *Q pencil hardness change after 24 hour post-exposure dry time.*  
*Slight discoloration.*

Result Conforms

**Hydrogen Embrittlement Test:**

Hydrogen Embrittlement testing shall be in accordance with ASTM F 519-93, using cadmium plated Type 1a, 1c, or 2a specimens. All requirements of ASTM F519-93 for specimens, preparation, testing, and reporting shall apply. Type 1a specimens shall meet the requirements of D6-4307.

*Specimens: Type 1c, cadmium plated per MIL-STD-870.*  
*Parameters: 45% load, immersed 150 hours,max; 22"C-2""C*

**Concentrate: No failures occurred within 150 hours.**  
**Dilute: No failures occurred within 150 hours.**

Result Conforms