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Attn: Mark Burdsall
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Date: 30-Jun-2017

SMI/REF: 1705-900_R

Product: **PS-3010 NEUTRAL PEROXIDE ACTIVATED PAINT REMOVER**
(received 16-May-2017)

Dilution: As received

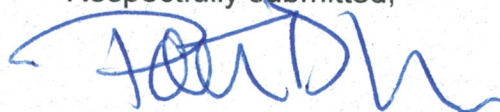
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Partial Testing in Accordance with:

SAE MA4872A
Paint Stripping of Commercial Aircraft
Evaluation of Materials and Process

5.5.1 Sandwich Corrosion	<u>Conforms</u>
5.5.2 Immersion Corrosion	<u>Conforms (excluding magnesium)</u>
5.5.2 Immersion Corrosion (magnesium alloy only)	<u>Does not conform (mag only)</u>
5.5.3 Corrosion Test for Dissimilar Metals	<u>Conforms (excluding magnesium)</u>
5.5.3 Corrosion Test for Dissimilar Metals	<u>Does not conform (mag only)</u>
5.5.4 Hydrogen Embrittlement of High Strength Steels	<u>Conforms</u>

Respectfully submitted,



Patricia D. Viani, SMI Inc.

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5.5.1 Sandwich Corrosion: In accordance with ASTM F 1110.
Requirement: Specimens showing a rating worse than one, and/or worse than ASTM D1193 Type IV water, shall be reported as a "fail".

RESULTS	2024-T3 Bare Anodized	2024-T3 Alclad	7075-T6 Bare Anodized	7075-T6 Alclad
PAINT STRIPPER:	1 (pass)	1 (pass)	1 (pass)	1 (pass)
CONTROL: (ASTM D1193 Type IV water)	1	1	1	1

Result Conforms

5.5.2 Immersion Corrosion Tests; in accordance with ASTM F 483.
Requirement: The action of the fluid shall neither cause corrosion nor a weight change of any test panel greater than the values specified in Table 2.

Table 2

Test panel	Weight Change mg/cm ² /24h	
	Allowed	RESULTS
AMS 4037 Aluminum anodized per AMS 2470	0.2	+ 0.07
AMS 4041 Aluminum	0.3	+ 0.03
AMS 4049 Aluminum	0.3	< 0.01
AMS 4376 Magnesium dichromate treated per AMS 2475	0.2	+ 4.53*
AMS 4911 Titanium	0.1	+ 0.02
ASTM A 109 Carbon Steel; Temper #5	0.8	0.02
AMS 6350 steel; Cadmium plated per ASTM F 1111	0.3	0.11
ISO 4783/1 Bronze mesh ¹ (Product Reference 230/40)	1.2% from initial weight ²	Not performed
DMS 2302 Copper Alloy ³	0.3	Not performed

¹Required when chemically stripping lightning strike wire mesh on Airbus aircraft only.

²Initial weight: approximately 10 g.

³Required when chemically stripping lightning strike wire mesh on McDonnell Douglas aircraft only.

Result Conforms (excluding magnesium)
 Result *Does not Conform (magnesium only)

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5.5.3 Corrosion Test for Dissimilar Metals:

The coupled panels shall be completely immersed in the softener/stripper. After 1 hour, they shall be removed and placed in an oven maintained at 40C (104F) for a period of 48 hours. The panels shall be removed and immediately suspended vertically for 48 hours in a desiccator. Prior to the test, the desiccator shall be cleaned and the low portion filled with ASTM D 1193 Type IV water after which it shall be closed. During the test, the desiccator shall be kept tightly sealed and in an area maintained at 23C (75F). At the end of the 48-hour period, the panels shall be removed, disassembled, washed with water immersed in acetone and dried. The individual panels shall then be inspected for pitting, etching and corrosion products. For magnesium panels, slight etching under the washers, less than 3.2 mm in diameter, shall not be cause for rejection.

Requirement: Panels that exhibit pitting, etching, and/or corrosion products shall be reported as a "fail".

Couple #	Alloy	Observations
#1	AMS 4049 Aluminum	Slight discoloration
	AMS 4376 Magnesium	*Significant discoloration
#2	AMS 4049 Aluminum	Slight discoloration
	Steel, MIL-S-7952, cadmium plated per QQ-P-416, Type I	Slight discoloration
#3	AMS 4049 Aluminum	Slight discoloration
	AMS 4911 Titanium	Slight discoloration
#4	AMS 4911 Titanium	Slight discoloration
	Steel, MIL-S-7952, cadmium plated per QQ-P-416, Type I	Slight discoloration
#5	AMS 4911 Titanium	Slight discoloration
	AMS 4376 Magnesium	*Significant discoloration

Result Conforms (excluding magnesium couple)

Result *Does not Conform (magnesium only)

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5.5.4 Hydrogen Embrittlement of High Strength Steels; ASTM F 519 Type 1C
Requirement: Express results in accordance with ASTM F519.

Specimens: Type 1c, cadmium plated per MIL-STD-870 Type I Class 1.
Load: 45 % of predetermined breaking strength
Exposure: Stressed specimens were completely immersed in product for 150 hours.
at room temperature.

Specimen #1: No failure within 150 hours.
Specimen #2: No failure within 150 hours.
Specimen #3: No failure within 150 hours.
Specimen #4: No failure within 150 hours.

Product was non-embrittling when tested under these conditions.

Result Conforms