SMI, Inc.

12219 SW 131 Avenue Miami, Florida 33186-6401 USA Phone: Fax:

(305) 971-7047 (305) 971-7048

Attn:

Jaci Warren

Date:

25-Jul-2012

Cilajet

20924 Normandie Avenue

SMI/REF:

1206-709

Torrance, CA 90502

Product:

CILAJET AVIATION SEALANT (June 2012) (received 27-June-2012)

Dilution:

As received

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AMS 1650C

Polish, Aircraft Metal Type 1: Liquid

Properties 3.2

3.2.1	Flash Point	Conforms
3.2.2	Viscosity (Type I only)	Conforms
3.2.3	Corrosion of Metal Surfaces	
	Sandwich Corrosion	Conforms
	Total Immersion Corrosion	Conforms
3.2.4	Effect on Plastic	Conforms
3.2.5	Effect on Painted Surfaces	Conforms
3.2.6	Effect on Unpainted Surfaces	Conforms
3.2.7	Settling Number (Type I only)	Conforms
3.2.8	Low-Temperature Stability	Conforms
3.2.9	Abrasive Number	Conforms
3.3	Quality	Conforms

Respectfully submitted,

Patricia D. Viani, SMI Inc.

Client: Product: Cilaiet

CILAJET AVIATION SEALANT (June 2012)

As received

Dilution: AMS 1650C Date:

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Flash Point: Shall be not lower than 60°C (140°F), determined in accordance 3.2.1 with ASTM D 56.

No flash point observed to 141°F

Result	Conforms	
Result	Comonis	

Viscosity (Type 1 Only): Shall be 50 to 70 Krebs units, determined in 3.2.2 accordance with ASTM D 562 at 24°C +3 (75°F +5).

< 70 Krebs units

Conforms Result

- Corrosion of Metal Surfaces: 3.2.3
- Sandwich Corrosion: Specimens shall produce a rating not worse than 1, 3.2.3.1 determined in accordance with ASTM F 1110.

	2024-T3 Bare Anodized	2024-T3 Alclad	7075-T6 Bare Anodized	7075-T6 Alclad
As received	1	1	1	1
CONTROL	1	1	1	1

Result	Conforms	
i (CSuit	Comonia	

3.2.3.2 Total Immersion Corrosion: Polish shall not cause a weight change greater than 0.3 mg/cm² per 24 hours for any panel of AMS 4045 and AMS 4049 aluminum alloy, determined in accordance with ASTM F 483. The product shall cause no evidence of etching, selective attack, or presence of corrosion products after any time period and only a slight dulling at the end of the test.

AMS 4045: 0.02 mg/cm²/24hrs AMS 4049: 0.03 mg/cm²/24hrs

Result	Conforms

Client: Product: Dilution: AMS 1650C	Cilajet CILAJET AVIATION SEALANT (June 2012) As received	Date: SMI/REF: Page 3 of 4	25-Jul-2012 1206-709	
3.2.4	Effect on Plastic: Polish shall not craze, stain, or discolor stretched Mil-P-25690 plastic, determined in accordance with ASTM F 484.			
	Resul	t Con	forms	
3.2.5	Effect on Painted Surfaces: Polish shall neither the paint film by more than two pencil hardness any staining or blistering of the paint film, det ASTM F 502. Resul	s levels nor e ermined in a	shall it produce	
3.2.6	Effect on Unpainted Surfaces: Polish, tested 485, shall neither produce streaking nor leave a AMS 4049 aluminum alloys which require polish Residue evident after rinse; product of the substrate; conformance based of	any stains on shing to remo did not rinse	AMS 4045 and ve. cleaning from	
	Resul	t <u>Cor</u>	forms	
3.2.7	Settling Number (Type 1 Only): Shall be not grein 3.2.7.1.	eater than 20	, determined as	
	Settling number: 2 Resul	t <u>Cor</u>	forms	
3.2.8	Low-Temperature Stability: The polish shall appearance by vigorous shaking or by stirring a as in 3.2.8.1.			
3.2.8.1	Place approximately 100 mL of Type 1 polish of in each of two 125 mL wide-mouth Pyrex jars are one of the jars at 20 to 25 degrees C (68 to 77 of the test period as a control sample. Place the sample in a cold box maintained at -10 degrees 2 hours ±0.1. At the end of the two hour period the test sample and immerse in a water bath m (117 degrees F ±2) for 1 hour ±0.1. Remove the and again place in the cold box at -10 degrees hours ±0.1.	nd stopper the degrees F) for second jar cons C ±2 (-14 dead, remove the aintained at 4 e jar from the	e jars. Set aside r the duration of ntaining the test egrees F ±4) for e jar containing 7 degrees C ±1 water bath, dry,	

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Cilajet

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At the end of the second 2-hour period, remove the jar from the cold box and immerse in the water bath maintained at 47 degrees C +1 (117 degrees F +2) for 1 hour +0.1. Remove the jar from the water bath, dry, and again place the jar in the cold box at -10 degrees C +2 (-14 degrees F +4) for a third 2-hour period. At the end of this period, remove the jar from the cold box and allow the jar to remain at room temperature for 16 hours +0.5. For Type 1 polish, shake the jar containing the test sample vigorously by hand; for Type 2, stir the contents of the jar. Compare the appearance of the test sample with the control sample.

Result	Conforms
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- 3.2.9 Abrasive Number: Shall not exceed 5. determined as in 3.2.9.1.
- 3.2.9.1 Weigh two 0.04 x 3 x 6 inch (1 x 76 x 152 mm) AMS 4049 aluminum alloy panels after washing the panels thoroughly with a non-abrasive detergent. thoroughly rinsing with deionized water, and drying. Cover one of the panels with a thin coating of the polish. Place the second panel on the coated panel and rotate twenty-five times in moderate circular motion. Separate the panels and wipe clean with a soft cloth saturated with acetone. Reweigh and determine the weight loss. Report the weight loss in milligrams as the abrasive number and examine the surfaces of the panels for any evidence of scratching.

abrasive number: less than 1.0 No abrasive scratching.

Result Con	forms
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Quality: The polish, as received by purchaser, shall be uniform in texture, 3.3 homogeneous, and free from foreign materials detrimental to usage of the polish.

Result	Conforms	