SMI, Inc.
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Attn: Alex Cadiz
Cee Bee Aviation Products
7700 Irvine Center Drive
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Date: 16-Jan-2003

Product: Rhoba Air Aeropolish SPR (received 20-Dec-2002)

Dilution: Ready to Use

AMS 1650B
Polish, Aircraft Metal
Type 2: Paste

3.2 Properties

3.2.1 Flash Point

3.2.2 Viscosity (Type I only)

3.2.3 Corrosion of Metal Surfaces
Sandwich Corrosion
Total Immersion Corrosion

3.2.4 Effect on Plastic

3.2.5 Effect on Painted Surfaces

3.2.6 Effect on Unpainted Surfaces

3.2.7 Settling Number (Type I only)

3.2.8 Low-Temperature Stability

3.2.9 Abrasive Number

Conforms
Not applicable
Conforms
Conforms
Conforms
Conforms
Not applicable
Conforms
Conforms

Respectfully submitted,

Patricia O. Viani, SMI Inc.

SCIENTIFIC MATERIAL INTERNATIONAL
www.smiinc.com

=] ,TEL= 01/24/03 18:28
3.2.1 Flash Point: Shall be not lower than 60°C (140°F), determined in accordance with ASTM D 56.

*No flash point observed to 141°F*

Result: **Conforms**

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

Result: **Not applicable**

3.2.3 Corrosion of Metal Surfaces:

3.2.3.1 Sandwich Corrosion: Specimens shall pass the sandwich corrosion test, determined in accordance with ASTM F 1110.

<table>
<thead>
<tr>
<th></th>
<th>2024-T3 Bare Anodized</th>
<th>2024-T3 Alclad</th>
<th>7075-T6 Bare Anodized</th>
<th>7075-T6 Alclad</th>
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<tbody>
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<td>CONTROL</td>
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Result: **Conforms**

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: **< 0.01 mg/cm²/24hrs**
AMS 4049: **0.01 mg/cm²/24hrs**

Result: **Conforms**

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.

Result: **Conforms**
3.2.5 **Effect on Painted Surfaces:** Polish shall neither decrease the hardness of the paint film by more than two pencil hardness levels nor shall it produce any staining or blistering of the paint film, determined in accordance with ASTM F 502.

Result **Conforms**

3.2.6 **Effect on Unpainted Surfaces:** Polish, tested in accordance with ASTM F 485, shall neither produce streaking nor leave any stains on AMS 4045 and AMS 4049 aluminum alloys which require polishing to remove.

Result **Conforms**

3.2.7 **Settling Number (Type 1 Only):** Shall be not greater than 20, determined as in 3.2.7.1.

Result **Not applicable**

3.2.8 **Low-Temperature Stability:** The polish shall be restorable to its original appearance by vigorous shaking or by stirring after being temperature cycled as in 3.2.8.1.

3.2.8.1 Place approximately 100 mL of Type 1 polish or 100 grams of Type 2 polish in each of two 125 mL wide-mouth Pyrex jars and stopper the jars. Set aside one of the jars at 20 to 25 degrees C (68 to 77 degrees F) for the duration of the test period as a control sample. Place the second jar containing the test sample in a cold box maintained at -10 degrees C ± 2 (-14 degrees F ± 4) for 2 hours ±0.1. At the end of the two hour period, remove the jar containing the test sample and immerse in a 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 in the cold box at -10 degrees C ± 2 (-14 degrees F ± 4) for 2 hours ±0.1. 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**
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.

 абразивный номер: **менее чем 1.0**  No abrasive scratching.

Result: Conforms