

MIL-C-81945A(AS)  
AMENDMENT 1  
13 April 1981

## MILITARY SPECIFICATION

### COATING COMPOUNDS, WEAPON INSULATION, INTUMESCENT

This amendment forms a part of Military Specification  
MIL-C-81945A(AS), dated 2 June 1980.

#### PAGE 3

2.1, add: "MIL-L-23699 Lubricating Oil, Aircraft Turbine Engine, Synthetic Base" and "MIL-C-83286 Coating, Urethane, Aliphatic Isocyanate, for Aerospace Applications" and "FED-STD-313 Material Safety Data Sheets; Preparation and Submission of".

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3.2, add: "Material safety data sheets shall be prepared and submitted in accordance with FED-STD-313."

3.3.1.1, line 2: Delete "+0.010 -0.000 inch".  
line 3: Delete "+0.25 -0.00".

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3.3.2, line 2: Delete "micrometer" and substitute "microns".

3.3.3, line 1: After "panels" add "coated with Type I material and".  
line 3: Delete "epoxy polyurethane primer or topcoat" and substitute "epoxy primer or polyurethane topcoat".

3.3.4, line 1: After "cured" add "Type I".

3.4.1, lines 4 and 5: Delete "of 3.3.2, 3.3.5 and 3.3.6".

3.4.2, add: "Discoloration shall not be cause for rejection".

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3.4.5, line 1: Delete "Temperature" and substitute "Thermal".

3.4.6, line 2: Delete "Six months" and substitute "one year".

3.4.6, delete second sentence.

3.5.2, line 2: Delete "23°  $\pm$ 2°C (73°  $\pm$ 8°F)" and substitute "23°  $\pm$ 3°C (73°  $\pm$ 5°F)".

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4.5.1, line 3: After "method" add "for".

4.5.1, line 4: After "adhesive method" add "for".

4.5.1, delete fourth sentence.

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4.5.1, line 4: After "a. Coating" add "Compounds,"

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4.7.1, line 3: Delete "4 by 12 inches" and substitute "3 by 6 inches".  
Delete "1 by 100 by 300 mm" and substitute "1 by 75 by 150 mm".

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4.7.2, line 3: Delete "0.006" and substitute "0.0006".

4.7.2, line 3: Delete "0.008 inch" and substitute "0.0009 inch".

4.7.2, lines 3 and 4: Delete "cured for 1 to 1 1/2 hours at 70° +3°C  
(160° +5°F)" and substitute "dried for one hour at 23 ±3°C (73 ±5°F)".

4.7.4, line 7: Delete "23° ±2°C (73° ±8°F)" and substitute "23° ±3°C  
(73° ±5°F)"

4.7.6, line 3: After "MIL-C-81773" add "or MIL-C-83286" and delete  
"Type II". Delete "insignia white (color number 17875)" and substitute  
"untinted white (color number 17925)".

line 5: Delete "0.001 to 0.002 inch" and substitute "0.0015 to 0.0020  
inch". Delete "30" and substitute "38". Add: "Coated panels shall be  
conditioned for a minimum of 7 days at 23° ±3°C (73° ±5°F) prior to  
testing."

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4.8.1, Delete paragraph and substitute "Viscosity. Each separate  
component shall be carefully mixed by hand, so as not to introduce  
entrapped air into the material. The test shall be conducted within ten  
minutes after mixing (before settling or solvent migration can occur),  
in accordance with ASTM D 2196. Using a No. 7 spindle at a rotational  
speed of 20 RPM, determine the viscosity after five minutes of running  
time has elapsed."

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4.8.8.1, line 1: Delete "eight panels" and substitute "six panels".  
line 2: Delete "eight discs" and substitute "six discs".  
line 15: Delete "and two panels for the weather resistance test (4.8.17)".

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4.8.8.2, line 10: Delete "1/16 to 1/18 inch" and substitute "1/8 to 1/4 inch." Delete "1.5 to 3 mm" and substitute "3.2 to 6.4 mm".

4.8.10.1, line 5: Delete " $20^{\circ} \pm 3^{\circ}\text{C}$  ( $70^{\circ} \pm 5^{\circ}\text{F}$ )" and substitute " $23^{\circ} \pm 3^{\circ}\text{C}$  ( $73 \pm 5^{\circ}\text{F}$ )".

PAGE 19

4.8.11, line 3: Delete "5 by 12 inches" and substitute "3 by 6 inches". Delete "0.5 by 125 by 300 mm" and substitute "0.5 by 75 by 150 mm".

4.8.12, line 2: Delete "lubricating oil composed of 95 percent of di-2-ethyl-hexyl sebacate, and 5 percent tricresyl phosphate, by weight" and substitute "MIL-L-23699 lubricating oil".

4.8.14.1, line 3: Delete "5 by 12 inches" and substitute "3 by 6 inches".

4.8.16, line 1: Delete "Temperature" and substitute "Thermal".

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4.8.17, line 5: Delete "and subjected to the thermal efficiency test".

Preparing activity:  
Navy - AS  
(Project No. 8010-N182)

FSC 8010