



AEROSPACE MATERIAL

Society of Automotive Engineers, Inc.
400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15066

SPECIFICATION

AMS 3138/6

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Revised

COATING MATERIAL, FLUOROCARBON, ELASTOMERIC Anti-Static Topcoating, Colored

1. SCOPE:

- 1.1 Form: This specification covers a fluorocarbon elastomeric coating material for fiber-reinforced-resin composite structures in the form of a two-component brushable or sprayable liquid.
- 1.2 Application: Primarily as a topcoating over AMS 3138/1, AMS 3138/2, or AMS 3138/3 base coating for protection of aircraft and missile radomes and other components from rain-erosion, aerodynamic heating, static, and weathering.

2. APPLICABLE DOCUMENTS: Shall be as shown in AMS 3138 and as follows:

- AMS 3138/1 - Coating Material, Fluorocarbon Elastomeric, Rain-Erosion Resistant, Black
- AMS 3138/2 - Coating Material, Fluorocarbon Elastomeric, Rain-Erosion and Thermal-Flash Resistant, White
- AMS 3138/3 - Coating Material, Fluorocarbon Elastomeric, Rain-Erosion Resistant, Colored

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specification: The complete requirements for procuring the coating material described herein shall consist of this document and the latest issue of the basic specification, AMS 3138.
- 3.2 Material: Shall be a pigmented fluoroelastomer solution and a curing agent, for application by brushing or spraying.
 - 3.2.1 Color: Shall be gray, unless otherwise specified, of sufficient intensity to hide completely the surface of the substrate, and shall closely match the applicable color chip of FED-STD-595.
- 3.3 Cured Coating Properties:
 - 3.3.1 Rain-Erosion Resistance: The average time to erode through the full thickness of this material applied over AMS 3138/1, AMS 3138/2, or AMS 3138/3 coating material shall be not less than 80 min. for each specified condition.
 - 3.3.2 Electrical Transmission: The electrical transmission of panels coated with this material over AMS 3138/1, AMS 3138/2, or AMS 3138/3 coating material shall be not less than 90% of that of uncoated panels for each specified condition.
 - 3.3.3 Surface Resistivity: The surface resistivity of panels coated with this material over AMS 3138/1, AMS 3138/2, or AMS 3138/3 coating material shall be not less than 0.5 nor more than 15 megohms per square.

4. QUALITY ASSURANCE PROVISIONS: See AMS 3138.

5. PREPARATION FOR DELIVERY: See AMS 3138.

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