



AEROSPACE MATERIAL SPECIFICATION

AMS3136™

REV. F

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Superseding AMS3136E

Coating Material, Phenolic Resin, PTFE Filled
Pigmented, 150 °C (302 °F) Cure

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE:

1.1 Type:

This specification covers a pigmented phenolic-resin-base coating material, filled with polytetrafluoroethylene (PTFE), supplied in kit form.

1.2 Application:

This coating has been used typically where lubricity is required on materials not adversely affected by the 150 °C (302 °F) curing temperature, but usage is not limited to such applications.

1.3 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

AMS 2825 Material Safety Data Sheets

2.2 ASTM Publications:

Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM B 117 Salt Spray (Fog) Testing

2.3 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

PPP-P-1892 Paint, Varnish, Lacquer, and Related Materials; Packaging, Packing, and Marking of

3. TECHNICAL REQUIREMENTS:

3.1 Material:

3.1.1 Composition:

Shall consist of a two-part formulation, one part being a phenolic resin base with dye and dispersing agents and the other part being a colloidal dispersion of polytetrafluoroethylene (PTFE) with necessary wetting and dispersing agents. After mixing in accordance with manufacturer's recommendations, the mixed product shall conform to the following percentages by weight.

Nonvolatile: 19 to 21%

Volatile: 79 to 81%

3.1.1.1 The composition of the individual components shall be as follows:

3.1.1.1.1 Pigmented Phenolic Resin Component (percent by weight):

Nonvolatile: 9.5 to 10.0

Volatile: 90.0 to 90.5

3.1.1.1.1.1 Nonvolatile: Shall be a thermosetting phenolic resin with dye and dispersing agents.

3.1.1.1.1.2 Volatile: Shall be an organic solvent composed of alcohols, esters, and diluents.

3.1.1.1.2 PTFE Filler Component (percent by weight):

Nonvolatile: 61.5 to 63.5

Volatile: 36.5 to 38.5

3.1.1.1.2.1 Nonvolatile: Shall be polytetrafluoroethylene (PTFE) resin particles with necessary wetting agents and dispersing agents.