



AEROSPACE MATERIAL SPECIFICATION

AMS3065™

REV. H

Issued 1946-01
Revised 2002-10
Reaffirmed 2021-08

Superseding AMS3065G

Compound, Corrosion Preventive
Thin Film, Fingerprint Removing

RATIONALE

AMS3065H has been reaffirmed to comply with the SAE Five-Year Review policy.

1. SCOPE:

1.1 Form:

This specification covers corrosion-preventive organic substances dissolved or emulsified in a volatile solvent and supplied in the form of a ready-to-use liquid.

1.2 Application:

This compound has been used typically, during shop processing and interplant shipment, but not for extended storage, as a coating to neutralize the corrosive effect of fingerprints on metals when applied before or immediately after handling, 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.

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Full document details: SAE AMS3065H

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Documents
Document Sharing Hub

2. APPLICABLE DOCUMENTS:

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001 or www.sae.org.

AMS 3120 Enamel, Glyceryl Phthalate, Black Baking
AMS 3125 Enamel, Glyceryl Phthalate, Engine Gray Baking
AMS 3132 Varnish, Phenolic Resin, Corrosion-Preventive
AMS 3160 Solvent, Petroleum

2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 or www.astm.org.

ASTM D 56 Flash Point by Tag Closed Tester
ASTM D 130 Detection of Copper Corrosion from Petroleum Products by the Copper Strip
Tamish Test
ASTM D 445 Kinematic Viscosity of Transparent and Opaque Liquids (the Calculation of
Dynamic Viscosity)
ASTM D 1748 Rust Protection by Metal Preservatives in the Humidity Cabinet

2.3 ANSI Publications:

Available from American National Standards Institute, Inc., 25 West 43rd Street, New York, NY 10036-8002.

ANSI B46.1 Surface Texture

3. TECHNICAL REQUIREMENTS:

3.1 Material:

Shall consist of corrosion-preventive organic substances dissolved or emulsified in a volatile solvent.

3.1.1 Odor: Compound shall be free from disagreeable and offensive odors.

3.1.2 Toxicity: Compound shall contain no ingredients which may be injurious to personnel using it under manufacturer's recommended conditions and using reasonable safety precautions.

- 3.1.3 Removability: Compound, after evaporation of the volatile portion, shall be readily removable by spraying with, or dipping in, AMS 3160 solvent; no residue shall remain on the piece.

3.2 Properties:

Compound shall conform to requirements shown in Table 1, 3.2.5, 3.2.6, 3.2.7, and 3.2.8, determined in accordance with specified test methods.

TABLE 1 - Properties

	Property	Requirement	Test Method
3.2.1	Flash Point, min	100 °F (38 °C)	ASTM D 56
3.2.2	Viscosity at 100 °F (38 °C), max	30 cSt (0.000030 m ² /S)	ASTM D 445
3.2.3	Corrosion, Copper Strip at 212 °F (100 °C)	No pitting and no discoloration darker than ASTM Classification No. 1	ASTM D 130
3.2.4	Film Thickness, max	0.001 inch (25 µm)	4.4.1

- 3.2.5 Protection: Compound shall protect polished, low-carbon steel and sand blasted low-carbon steel against corrosion for not less than 168 hours, determined in accordance with 4.4.2.
- 3.2.6 Corrosiveness: Compound shall produce no evidence of pitting or other corrosion, no significant weight change, and no other adverse effect on steel, silver, tin, zinc, copper, lead, cadmium, lead-indium, magnesium, aluminum, brass, and bronze specimens, couples, or combinations thereof, glyceryl phthalate enamels, and phenolic varnish, determined in accordance with 4.4.3. Weight change of lead shall be not greater than 10 mg/cm².
- 3.2.7 Fingerprint Neutralization: Compound shall suppress corrosion from fingerprints when tested in accordance with 4.4.4.
- 3.2.8 Water Displacement: Compound shall displace water such that sandblasted low-carbon steel panels completely wetted with water and then immersed in the compound shall withstand corrosion when tested in accordance with 4.4.5.

4. QUALITY ASSURANCE PROVISIONS:

4.1 Responsibility for Inspection:

The vendor of compound shall supply all samples for vendor's tests and shall be responsible for the performance of all required tests. Purchaser reserves the right to sample and to perform any confirmatory testing deemed necessary to ensure that the compound conforms to specified requirements.