



AEROSPACE MATERIAL SPECIFICATION

AMS3079™**REV. C**

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Superseding AMS3079B

Compound, Corrosion-Preventive, Soft Film, Hot Application

RATIONALE

AMS3079C stabilizes this document because this document contains mature technology that is not expected to change and thus no further revisions are anticipated.

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1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. TYPE: A stable, nonvolatile, petroleum-base compound suitable for application by dipping at 160 - 170 F (71 - 77 C).
3. APPLICATION: Protection of metal parts where a soft, readily-removable film is desired and additional protective packaging is provided.
4. TECHNICAL REQUIREMENTS: When ASTM methods are specified for determining conformance to the following requirements, tests shall be conducted in accordance with the issue of the ASTM method listed in the latest issue of AMS 2350.
 - 4.1 Abrasiveness: Compound shall not contain abrasive substances.
 - 4.2 Toxicity: Compound shall contain no materials of known toxicity. The vapor shall not cause discomfort or injury to workmen engaged in application of the compound.
 - 4.3 Coverage : Compound shall provide a continuous, completely protective film on metal parts under normal conditions of storage in all climates.
 - 4.4 Setting: Compound as applied to metal parts shall set to a firm, soft film in 24 hr at room temperature (77 F $\pm$ 7 (25 C $\pm$ 3.9)).
 - 4.5 Removability: Compound shall be readily removed by dipping in, or spraying with, AMS 3160 petroleum solvent or by wiping with cloths saturated with the solvent.
 - 4.6 Corrosion: Compound shall not corrode polished steel, copper, magnesium, aluminum, or cadmium plate when maintained in contact with those metals for 4 hr at 210 F $\pm$ 2 (98.9 C $\pm$ 1.1).
 - 4.7 Properties: Compound shall conform to the following requirements; tests shall be performed in accordance with listed ASTM methods:

Melting Point	125 - 150 F (51.7 - 65.6 C)	ASTM D127
Flash Point, min	350 F (176.7 C)	ASTM D92
Consistency	200 - 325	4.7.1
 - 4.7.1 Consistency: Shall be determined in accordance with ASTM D217, except that the sample shall be prepared as follows: After the melting point of the compound has been determined, the consistency tests shall be made on a sample that has been heated to 25 F $\pm$ 3 (13.9 C $\pm$ 1.7) deg above the melting point and poured at that temperature into a glass dish (100 x 50 mm) up to a height of 40 millimeters. The sample shall then be allowed to cool and set at a temperature of 77 F $\pm$ 7 (25 C $\pm$ 3.9) for 24 hours.
 - 4.8 Ash: Ash content of each different compound shall be established on the approval sample in accordance with ASTM D482, using a 1 g sample. If the established value is 0.15% or less, the ash for succeeding shipments shall not exceed the established value by more than 1/5 of that value; if the established value is over 0.15%, the ash for succeeding shipments shall not deviate from the established value by more than 1/10 of that value.