

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 3070B

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OIL, CARBURETOR FLUSHING

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. **TYPE:** Refined petroleum base lubricating oil without additive compounds not naturally occurring in petroleum.
3. **APPLICATION:** Preservation of the interior of carburetors, particularly the diaphragms, during shipment and/or storage.
4. **TECHNICAL REQUIREMENTS:**
 - 4.1 **Properties:** Oil shall conform to the following requirements; tests shall be performed in accordance with listed ASTM methods, or such modifications and specific methods as detailed herein:

Viscosity at 210 F (ASTM D88-44 or D445-46T)	62 - 68 S.U.S.
Flash Point (ASTM D92-46)	420 F min
Pour Point (ASTM D97-47)	0 F max
Sulfur (ASTM D129-44)	0.5 % max
Aniline Point (ASTM D611-46T)	230 F min
Saponification Number (4.1.1)	0.5 max
Reaction (4.1.2)	Neutral
Corrosion at 212 F (copper strip)(4.1.3)	No black or brown discoloration or pitting
 - 4.1.1 **Saponification Number:** Shall be determined in accordance with ASTM D94-45, using a 20-gram sample, except that 0.1N alcoholic potassium hydroxide solution shall be used instead of 0.5N solution.
 - 4.1.2 **Reaction:** Fifty ml of oil and 15 ml of distilled water shall be placed in a 150-ml flask. The flask and contents shall be warmed to 150 F, shaken thoroughly and allowed to cool to room temperature. Five ml of the aqueous layer shall be pipetted into each of two test tubes. One drop of 0.1% solution of methyl orange shall be added to one tube and one drop of 1% solution of phenolphthalein added to the other. No red or pink color shall result in either case.
 - 4.1.3 **Corrosion:** This test shall be performed in accordance with ASTM D130-30, except that the medium shall be oil instead of gasoline and the temperature shall be 212 F instead of 122 F.
5. **REPORTS:** Unless otherwise specified, the vendor shall furnish with each shipment three copies of a notarized report of the results of tests to determine conformance of the batch of oil to the requirements of this specification. This report shall include the purchase order number, material specification number, batch number, date of manufacture, and quantity.
6. **PACKAGING:** Unless otherwise specified, oil shall be supplied in either 5-gallon cans or 55-gallon drums, as ordered.