

# AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.  
29 West 39th Street  
New York City

## AMS 3070 A

Issued 3-1-42

Revised 4-1-43

### OIL, CORROSION - PREVENTIVE (Carburetor Slushing)

1. ACKNOWLEDGMENT: A vendor must mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. TYPE: The material shall be refined petroleum oil without the admixture of fatty oils, fatty acids, resins, soaps, rubber, hydrocarbons, or other additive compounds not naturally occurring in petroleum.
3. USE: This oil shall be suitable for protecting the interior of carburetors from corrosion during shipment and storage.
4. REQUIREMENTS:

Viscosity, Saybolt Universal Seconds at 130°F	120 - 145
Viscosity Index (Dean and Davis)	105 min
Flash Point	415°F min
Pour Point	0°F max
Aniline Point	200°F min
Carbon Residue	0.6% max
Sulphur	0.5% max
Neutralization Number	0.1 max
Precipitation Number	0
Corrosion Test at 212°F (copper strip)	no discoloration or pitting
5. TESTS: (a) All tests to determine conformance to the requirements of this specification shall be made in accordance with ASTM methods, except the corrosion test, which shall be made as directed in paragraph 5(b) below.  
  
(b) Corrosion: Place a clean strip of mechanically polished pure copper 1/2" wide by 3" long in a clean test tube and cover completely with the sample to be tested. Close the tube with a vented stopper and maintain at 212°F for 3 hours. Rinse the copper strip with sulphur free acetone and compare with a similar strip of freshly polished copper. Corrosion, indicated by discoloration or pitting, must be absent.
6. REPORTS: Unless otherwise specified, the vendor shall supply three copies of a notarized report of the quantitative results of tests made on the batch of oil from which the order was filled. This report shall include the purchase order number, material specification number, batch number, quantity, and date of shipment.
7. IDENTIFICATION: All containers shall be plainly marked to show this specification number, the purchase order number, quantity, batch number, and the manufacturer's name or trade mark.
8. APPROVAL: A manufacturer shall not begin to supply a product to this specification until samples have been approved by the purchaser, and after approval the method of manufacture shall not be changed without his permission. Results of tests on incoming shipments shall be as good as, or better than, those on the approved samples.