

MIL-F-38299B(USAF)  
 AMENDMENT 2  
11 December 1980  
 SUPERSEDING  
 AMENDMENT 1  
 27 August 1979

# MILITARY SPECIFICATION

## FLUID, PURGING, FOR PRESERVING FUEL TANKS OF JET AIRCRAFT

This amendment forms a part of Military Specification  
 MIL-F-38299B, dated 14 December 1972.

### PAGE 2

- \* 3.1, at end of paragraph, add: "Virgin, recycled or reclaimed petroleum may be used."
- \* Following 3.3, insert: "3.4 Antioxidant additives. Immediately after processing, an approved antioxidant shall be added, if the purging fluid contains any blending stocks that have been hydrogen-treated. For fluids that do not contain hydrogen-treated blending stocks, the use of an antioxidant is optional. Approved antioxidants and concentrations shall be the same as for JP-4 fuel in accordance with MIL-T-5624."

"3.5 Electrical conductivity additive. An electrical conductivity additive shall be added to the purging fluid in sufficient concentration to increase the conductivity of the fluid to within the range of 200 to 600 picosiemens per meter. The conductivity additives approved for use in JP-4 in accordance with MIL-T-5624 shall be used."

### PAGE 3

TABLE I, Columns 2 and 3: Delete "0.780" in column 2 and "0.840" in column 3 and substitute "1/" in each column.

- \* Columns 1 and 3: Delete "Existent gum, mg/100 ml" in column 1 and "7" in column 3 and substitute "Existent gum, mg/100 ml, washed" in column 1 and "7 3/" in column 3.  
 Column 3: Delete "-51" and substitute "-40".
- \* Columns 1, 3, and 4: Delete "Acidity, distillation residue" in column 1; "neutral" in column 3; and "D1093" in column 4 and substitute "Total acid number, mg KOH/g, max." in column 1; "0.015" in column 3; and "D3242" in column 4.
- \* Columns 1, 2, 3, and 4, insert: "Fuel electrical conductivity, pS/m, allowable range at ambient fluid to temperature or 85°F, whichever is lower" in column 1; "200" in column 2; "600" in column 3; and "D2624 or D3114" in column 4.

MIL-F-2-38299B(USAF)  
AMENDMENT 2

- \* Following 2/, insert: "3/ The steam jet procedure for aircraft turbine fuel in accordance with ASTM D 381 shall be used. However, following the determination of the unwashed existent gum, the residue shall be extracted with n-heptane and the washed gum determined in accordance with ASTM D 381 procedure for motor gasolines. Both unwashed and washed existent gum results shall be reported."

NOTE: The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Custodian:  
Air Force - 11

Preparing activity:  
Air Force - 11

Review activity:  
Air Force - 68

Project No. 6850-F690