

AEROSPACE MATERIAL SPECIFICATION



AMS-D-81956A

Issued 2001-05
Cancelled 2008-02

Superseded by MIL-D-81956

Detergent, External Removable Fuel Tanks

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This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of February 2008 and has been superseded by MIL-D-81956. The requirements of the latest issue of MIL-D-81956 shall be fulfilled whenever reference is made to the cancelled AMS-D-81956. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications, noting that it has been superseded by MIL-D-81956.

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This document has been taken directly from U.S. Military Specification MIL-D-81956A, Amendment 2, and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-D-81956A, Amendment 2. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

1. SCOPE:

1.1 Scope:

This specification covers a water soluble, oil dispersing nonionic detergent used for cleaning aircraft removable fuel tanks.

2. APPLICABLE DOCUMENTS:

The following publications, of the issues in effect on date of invitation for bids or request for bids or request for proposal, form a part of this specification to the extent specified herein.

2.1 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

QQ-A-200/16 Aluminum Alloy Structural Shapes, Extruded 6061
PPP-P-704 Pails, Metal (Shipping, Steel 1 Through 12 Gallon)

MIL-T-5624 Turbine Fuel, Aviation, Grades JP-4 and JP-5
MIL-D-16791 Detergent, General Purpose (Liquid, Nonionic)

FED-STD-313 Material Safety Data Sheets, Preparation and Submission of
FED-STD-791 Lubricants, Liquid Fuels, and Related Products; Methods of Testing

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-290 Packaging, Packing, and Marking of Petroleum and Related Products

3. REQUIREMENTS:

3.1 Qualification:

The detergents furnished under this specification shall be products which are qualified for listing on the applicable qualified products list at the time set for opening of bids (see 4.4 and 6.4).

3.2 Material:

3.2.1 Biodegradability: The detergent shall be a biodegradable liquid nonionic surface active agent. (See 4.7.1).

3.2.2 Active ingredient concentration: The detergent shall contain up to 55% water and up to 0.5% corrosion inhibitor, with the balance of the cleaner being the active ingredient (see 4.7.2).

3.2.3 Structure of active ingredient: The detergent active ingredient shall be a fatty alkylolamide with a short to intermediate alcohol chain. (See 4.7.3)