

USED IN LIEU OF
AMENDMENT + 2

4 JANUARY 1980

MILITARY SPECIFICATION

FUEL OIL, DIESEL, MARINE

This interim amendment is issued for use by the Department of the Navy, Naval Sea Systems Command, with Military Specification MIL-F-16884G, 7 March 1973.

PAGE 1

2.2: Under "AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)", add:

"D 1401 - Emulsion Characteristics of Petroleum Oils and Synthetic Fluids, Test For."

PAGE 2

TABLE I: Delete and substitute:

"TABLE I. Chemical and physical requirements.

Characteristics	Requirements	FED-STD-791 test method	ASTM test method
Ignition quality, cetane number (min) (see 4.6.1)	45		D 613
Appearance at 21°C (70°F) or ambient temperature whichever is higher	Clear, bright, and free from visible particulate matter ^{1/}		
Distillation:			
50 percent point, °C (°F)	Record		
90 percent point, °C (°F) (max)	357°C (675°F)		D 86
End point, °C (°F) (max) ^{2/}	385°C (725°F)		
Residue plus loss, percent (max)	3.0		
Flash point, °C (°F) (min)	60°C (140°F)		D 93
Four point, °C (°F) (max)	-6°C (20°F) ^{5/}		D 97
Cloud point, °C (°F) (max)	-1°C (30°F) ^{5/}		D 2500
Viscosity at 40°C (104°F)	1.7 - 4.3		D 445
Kinematic, centistokes			
* EXPLOSIVENESS (MAX.)	50	1151	

See footnotes at end of table.

FSC 9140

* 3.4.3: Delete and substitute:

"3.4.3 Ignition improver. The following additives, to raise the ignition quality of the fuel, may be used as required to conform to this specification:

Amyl nitrate (mixed primary nitrates).
Hexyl nitrate (N-hexyl nitrate).
Cyclohexyl nitrate.
Octyl nitrate."

* 4.1: Delete and substitute:

"4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements."

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4.6.3, second line: Delete "method 3201 of FED-STD-791", and substitute "ASTM D 1401".

4.6.3(a): Add to end of sentence: "(see note 3, paragraph 6, ASTM D 1401 procedure)."

* 4.6.3(c): Delete and substitute:

"(c) The demulsification time shall be that required for separation into two layers with no cuff at the interface. A lacy emulsion which does not form a band or cuff on the wall of the cylinder shall be disregarded. The fuel, water, and emulsion layer volumes shall be recorded at one-minute intervals and the demulsification time reported shall be to the nearest minute."

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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.

Preparing activity:
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