

METRIC

MIL-PRF-83282D  
AMENDMENT 1  
10 December 1997

## MILITARY SPECIFICATION

HYDRAULIC FLUID, FIRE RESISTANT,  
SYNTHETIC HYDROCARBON BASE, METRIC,  
NATO CODE NUMBER H-537

This amendment forms a part of MIL-PRF-83282D, dated 30 September 1997, and is approved for use by all Departments and Agencies of the Department of Defense.

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Table II: Under "Characteristic," delete "Wick flammability" and its requirement.

Table II: Delete "High temperature - high pressure spray ignition" and its requirement.

Table II: Under "Characteristic," delete "High temperature stability" and substitute "High temperature stability (205°C for 100 hours)."

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Table V: Delete "Wick flammability" and "FED-STD-791, method 352 1/".

Table V: Delete "High temperature - high pressure spray ignition" and "FED-STD-791, method 3458."

Table V: Delete row containing "Solid particle contamination" and substitute new solid particle contamination characteristics and test methods:

Characteristic	Test method or paragraph
Solid particle contamination	
Filtration time	FED-STD-791, Method 3009
Particle count	FED-STD-791, Method 3009 <u>1/</u>
Gravimetric Analysis	ASTM D4898 <u>2/</u>

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Table V: Delete footnotes 1/ and 2/ and substitute:

- 1/ In lieu of the optical procedure, an automatic particle counter capable of measuring the limits specified in table III may be used (see 6.5.3), following the instrument manufacturer's instructions. As a referee method, the optical procedure shall be performed.
- 2/ A single 0.45 micron cellulose membrane filter shall be used.”

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6.6: Delete paragraph and substitute: “6.6 International standardization agreements. Certain provisions of this specification (see 1.1) are the subject of international standardization agreements AIR-STD-15/7, “Guide Specification For Petroleum Base Aviation Hydraulic Fluids (H-515 AND H-520),” AIR-STD-15/9, “Interchangeability Chart Of Standardized Aviation Fuels, Lubricants and Allied Products,” and STANAG-1135, “Interchangeability Of Fuels, Lubricants and Associated Products Used By The Armed Forces Of The North Atlantic Treaty Nations,” and STANAG-3748, “Hydraulic Fluids, Petroleum (H-515, H-520 And C-635) and Polyalphaolefin (H-537, H-538 AND H-544).” The Air Standardization Coordinating Committee (ASCC) is responsible for AIR-STD-15/7 and AIR-STD-15/9. STANAG-1135 and STANAG-3748 are North Atlantic Treaty Organization (NATO) Standardization Agreements. When amendment, revision, or cancellation of this specification is proposed, which will modify the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement or make other appropriate accommodations.”

CONCLUDING MATERIAL

Custodians:

Army - AT  
Navy - AS  
Air Force - 11  
DLA - GS

Preparing activity:

Navy - AS  
(Project 9150-1212)

Review Activities:

Army - AV, MI, AR  
Navy - SH  
Air Force - 68

International Interest:

NATO (See 6.6)