

[METRIC]
A-A-59230
2 July 1998
SUPERSEDING
DOD-F-87935
12 January 1984

COMMERCIAL ITEM DESCRIPTION

FLUID, MAGNETIC PARTICLE INSPECTION, SUSPENSION

The General Services Administration has authorized the use of this commercial item description as a replacement for DOD-F-87935 for all federal agencies.

1. **SCOPE.** This commercial item description (CID) covers a petroleum-base fluid for use as a suspension vehicle while performing magnetic particle nondestructive inspection procedures.

2. SALIENT CHARACTERISTICS

2.1 General. The magnetic particle suspension fluid characteristics shall conform to all the requirements of Type 1 product specified in AMS 2641, Vehicle, Magnetic Particle Inspection (Petroleum Based). In addition, the suspension fluid when tested in accordance with test methods specified in AMS 2641, shall conform to the adjusted technical requirements as follows:

2.1.1 Fluorescence. The fluid fluorescence shall not exceed that of a 1 part per million (ppm) by weight reference standard solution.

2.1.2 Particulate matter. The particulate matter in the fluid shall not exceed 0.5 milligram per liter (mg/L).

2.1.3 Total acid number. The fluid total acid number shall not exceed 0.015 mg of potassium hydroxide (KOH) per gram.

2.1.4 Color. The fluid color shall not be darker than 1.0 ASTM Color when tested in accordance with ASTM D1500, Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale).

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent to: Defense Supply Center Richmond (DSCR), ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5678.

AMSC N/A

FSC 6850

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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3. REGULATORY REQUIREMENTS

3.1 Material safety data sheet. Manufacturers shall prepare and submit a material safety data sheet (MSDS) in accordance with FED-STD-313 and meeting the Code of Federal Regulations requirements of 29 CFR 1910.1200.

4. QUALITY ASSURANCE PROVISIONS

4.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, shall conform to the producer's own drawings, specifications, standards, and quality assurance practices, and shall be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

5. PACKAGING

5.1 Preservation, packing, and marking. For acquisition purposes, the magnetic particle suspension vehicle fluid shall be preserved, packed, and marked as specified in the contract or order.

6. NOTES

6.1 Sources of documents.

6.1.1 Copies of SAE standards may be obtained from Society of Automotive Engineers International, 400 Commonwealth Drive, Warrendale, PA 15095-0001.

6.1.2 Copies of ASTM standards may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959.

6.1.2 For bidding purposes, copies of FED-STD-313 may be obtained from the General Services Administration, Federal Supply Service Bureau, Specification Section, Suite 8100, 479 L'Enfant Plaza SW, Washington, DC 20407.

6.2 National stock number (NSN). This CID is associated with NSN 6850-01-196-5472. Other NSNs may correspond with this document.

MILITARY INTERESTS:

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Army - AV

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