

NOT MEASUREMENT SENSITIVE

A-A-59197A
31 May 2005
SUPERSEDING
A-A-59197
10 April 1998

COMMERCIAL ITEM DESCRIPTION

FATTY OIL (FOR METAL-WORKING LUBRICANTS)

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. **SCOPE.** This commercial item description (CID) covers one grade of fatty oil for use in metal working operations.

2. SALIENT CHARACTERISTICS

2.1 **Material.** The fatty oil shall consist of oil obtained from animal sources, with such additives as may be necessary to meet the specified requirements.

2.2 **Workmanship.** The fatty oil shall be transparent and homogeneous in appearance when examined visually by transmitted light at $72\text{ }^{\circ}\text{F} \pm 5\text{ }^{\circ}\text{F}$ (ambient room temperature).

2.3 **Viscosity requirements.** The fatty oil shall have a viscosity range of 186.7 to 219 Saybolt Universal Seconds (SUS) at $100\text{ }^{\circ}\text{F}$ when tested in accordance with ASTM D 445, "Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and the Calculation of Dynamic Viscosity)", and converted to SUS by ASTM D 2161, "Standard Practice for Conversion of Kinematic Viscosity to Saybolt Universal Viscosity or to Saybolt Furol Viscosity".

2.4 **Pour point.** The fatty oil shall have a minimum pour point of $45\text{ }^{\circ}\text{F}$ when tested in accordance with ASTM D 97, "Standard Test Method for Pour Point of Petroleum Products".

2.5 **Flash point.** The fatty oil shall have a minimum flash point of $475\text{ }^{\circ}\text{F}$ when tested in accordance with ASTM D 92, "Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester".

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: STDZNMGT@dla.mil or Defense Supply Center Richmond (DSCR), ATTN: DSCR-VEB, 8000 Jefferson Davis Highway, Richmond, VA 23297-5616.

AMSC N/A

FSC 9150

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

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2.6 Water content. The fatty oil shall have a maximum water content of 0.10 percent when tested in accordance with ASTM D 95, "Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation".

2.7 Saponification. The fatty oil shall be in the range of 190 to 200 when tested in accordance with ASTM D 94, "Standard Test Methods for Saponification Number of Petroleum Products".

2.8 Neutralization number. The fatty oil shall have a maximum neutralization number of 8 when tested in accordance with ASTM D 974, "Standard Test Method for Acid and Base Number by Color-Indicator Titration".

2.9 Sediment. The fatty oil shall have a maximum sediment of 0.02 percent when tested in accordance with ASTM D 4007, "Standard Test Method for Water and Sediment in Crude Oil by the Centrifuge Method (Laboratory Procedure)".

3. REGULATORY REQUIREMENTS

3.1 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4. PRODUCT CONFORMANCE PROVISIONS

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

5. PACKAGING

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be as specified in the acquisition order (see 6.2(b)).

5.2 Unit quantity. The fatty oil shall be provided in 1-pint, 1-gallon, 5-gallon, or 55-gallon quantities as specified in the acquisition order (see 6.2(c)).

6. NOTES

6.1 Sources of documents.

6.1.1 FAR. The FAR may be obtained from the Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Electronic copies of FAR documents may be obtained from <http://www.arnet.gov/far/>.

6.1.2 ASTM standards. Copies of ASTM standards may be obtained from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959. Electronic copies of ASTM standards may be obtained from <http://www.astm.org/>.

6.2 Ordering data. The acquisition order should specify the following:

- a. CID document number and revision.
- b. Preservation, packing, and marking (see 5.1).
- c. Unit quantity required (see 5.2).

6.3 Subject term (key word) listing.

cutting fluids
lubrication

6.4 National stock numbers (NSNs). The following NSNs correspond with this CID. This list may not be indicative of all NSNs used to procure fatty oil covered under this CID.

<u>NSN</u>	<u>Size</u>
9150-00-231-6699	1 pint
9150-00-265-9054	1 gallon
9150-00-231-9054	5 gallon
9150-00-449-6009	55 gallon

MILITARY INTERESTS:

Custodian:
Army - AR

Review Activities:
Army - AV, MI

CIVIL AGENCY
COORDINATING ACTIVITY:

GSA - FSS

Preparing Activity:
DLA - GS3

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