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A-A-59113
30 December 1997
SUPERSEDING
MIL-L-46017
15 April 1968

COMMERCIAL ITEM DESCRIPTION

LUBRICATING OIL, MACHINE TOOL SLIDEWAYS

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

1. SCOPE. This commercial item description (CID) covers two types of lubricating oils that are intended for application as a lubricant in machine tool slideways.

2. CLASSIFICATION. The lubricating oil, machine tool slideways shall conform to the following types:

2.1 Type. Type I - Medium.
Type II - Heavy.

3. SALIENT CHARACTERISTICS

3.1 Viscosity requirements. When tested in accordance with ASTM D 445, the kinematic viscosity of the slideway lubricating oils (centistokes at 40 degrees Centigrade (°C)) shall be in the range of 61.0 - 75.0 for Type I and in the range of 195.0 - 238.0 for Type II.

3.2 Flash point requirements. The slideway lubricating oil shall have a minimum flash point of 330 degrees Fahrenheit (°F) for Type I, and 350 °F for Type II when tested in accordance with ASTM D 92.

3.3 Pour point. The slideway lubricating oil shall have a maximum pour point of 20 °F when tested in accordance with ASTM D97.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may improve this document should be sent by letter to: Defense Supply Center Richmond (DSCR), ATTN: DSCR-VBD, 8000 Jefferson Davis Highway, Richmond, VA 23297-5610.

AMSC N/A FSC 9150

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3.4 Copper corrosion. The slideway lubricating oil shall be a maximum of 1 when tested in accordance with ASTM D130.

3.5 Corrosion of steel. The slideway lubricating oil shall pass a test of corrosiveness or rusting of steel when tested in accordance with ASTM D665, Procedure A.

3.6 Ratio of coefficients of friction. The slideway lubricating oil shall have a maximum ratio of coefficients of friction, static to kinetic, (slick-stick ratio) of 0.80. Verification shall be performed through certification (such as a notarized statement) by the lubricant supplier that the lubricant has been qualified by a machine tool manufacturer normally engaged in the qualification of slideway lubricants. The statement shall contain the name of the machine tool manufacturer, the trade name of the qualified slideway lubricant, and the date on which the qualification tests were performed.

4. REGULATORY REQUIREMENTS. 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).

5. QUALITY ASSURANCE PROVISIONS

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

5.2 Market acceptability. The following market acceptability criteria are necessary to document the quality of the product to be provided under this CID.

5.2.1 The company must have produced slideway lubricating oils, meeting the requirements of this CID, for at least 5 years.

5.2.2 The company must be able to show test data or lab results of meeting the salient characteristics of the slideway lubricating oils.

5.2.3 The company must provide a warranty of replacing defective items.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES

7.1 Part identification number (PIN). The following part identification number procedure is for government purposes and does not constitute a requirement for the contractor.

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- Type:
  - I - Slideway lubricating oil (medium)
  - II - Slideway lubricating oil (heavy)
- CID number

7.2 Ordering data. Acquisition documents must specify the following:

a. Title, number, and date of this document.

b. Part identification number

c. Quantity and size of containers required.

7.3 National stock numbers (NSNs). The following is a list of NSNs assigned which correspond to this CID. This list may not be indicative of all possible NSNs associated with this document.

NSN	Grade	Size
9150-00-145-0112	I	5 Gallon can
9150-00-402-4479	I	55 Gallon drum
9150-00-402-4480	II	55 Gallon drum

7.4 Referenced documents.

7.4.1 ASTM documents may be obtained from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.4.2 The FAR may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402-0001.

Custodians:
Army - AR
Air Force - 68

Reviewer:
Army - AT

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