

INCH-POUND

A-A-59113A

16 April 2015

SUPERSEDING

A-A-59113

30 December 1997

COMMERCIAL ITEM DESCRIPTION

LUBRICATING OIL, MACHINE TOOL SLIDEWAYS

The General Service Administration has authorized the use of this commercial item description, for 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 D445, the kinematic viscosity of the slideway lubricating oils (mm^2/s at 40 degrees Celsius ($^{\circ}\text{C}$)) 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 ($^{\circ}\text{F}$) for Type I, and 350 $^{\circ}\text{F}$ for Type II when tested in accordance with ASTM D92.

3.3 **Pour point.** The slideway lubricating oil shall have a maximum pour point of -6°C when tested in accordance with ASTM D97.

3.4 **Copper corrosion.** The slideway lubricating oil shall have a maximum classification of 1 when tested in accordance with ASTM D130, For Lubricating Oil procedure, with test conditions of $100^{\circ}\text{C} \pm 1^{\circ}\text{C}$ for 3 hours \pm 5 minutes.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: STDZNMGT@dla.mil or DLA Aviation VEB, 8000 Jefferson Davis Highway, Richmond, VA 23297-5616. Since contact information can change, you may want to verify the currency of this address information using the ASSIST database at <https://assist.dla.mil/>.

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3.5 Corrosion of steel. The slideway lubricating oil shall pass 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 and biobased products to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE 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.

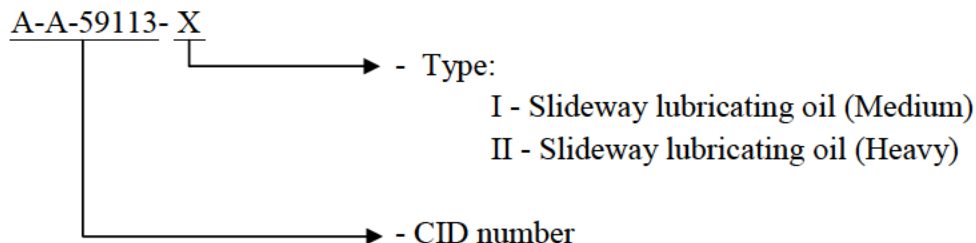
5.2.3 The company must provide a warranty of replacing defective items.

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

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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.



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.

<u>NSN</u>	<u>Grade</u>	<u>Unit of issue</u>
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 Copies of ASTM documents may be obtained online at <http://www.astm.org>.

7.4.2 Copies of the FAR may be obtained online at <http://www.gpo.gov>.

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Custodians:
Army – AR
Air Force – 68
DLA – GS

CIVIL AGENCY
COORDINATING ACTIVITY:
GSA-FAS

Reviewer:
Army – AT

Preparing Activity:
DLA – GS3

(Project 9150-2015-003)

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