

AEROSPACE MATERIAL SPECIFICATION

SAE AMS-G-6032

REV. A

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Superseding AMS-G-6032

Grease, Plug Valve, Gasoline and Oil Resistant,
NATO Code Number G-363, Metric

FSC 9150

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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NOTICE

This document has been taken directly from U.S. Military Specification MIL-G-6032D, Amendment 1 and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-G-6032D, Amendment 1. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

1. SCOPE:

1.1 Scope:

This specification covers the requirements for two types of gasoline and oil resistant grease for lubrication of tapered plug valves, gaskets, and for other applications in fuel and oil systems. The type I grease is identified by NATO symbol G-363 (see 6.4).

1.2 Classification:

The grease shall be furnished in the following types and classes, as specified (see 6.2).

1.2.1 Types:

Type I - Bulk

Type II - Stick in the form of cylindrical sticks of the size, shown in 1.2.2.

1.2.2 Classes:

<u>Class</u>	<u>Diameter, mm (inches)</u>	<u>Length, mm (inches)</u>	<u>Sticks per box</u>	<u>Boxes per carton</u>
A	6.35 (1/4)	22.23 (7/8)	24	30
B	10.32 (13/32)	34.93 (1 3/8)	24	150
C	13.89 (35/64)	50.80 (2)	24	120
D	16.67 (21/32)	73.02 (2-7/16)	24	80
G	21.83 (55/64)	85.73 (3-3/8)	24	24
J	37.31 (1-15/32)	104.78 (8-3/4)	6	10
K	38.89 (1-17/32)	254.00 (10)	6	10

2. APPLICABLE DOCUMENTS:

The following publications, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

2.1 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

O-E-751 Ether, Petroleum, Technical-Grade

P-D-680 Dry Cleaning Solvent

MIL-S-7952 Steel, Sheet and Strip, Uncoated, Carbon (1020 and 1025) (Aircraft Quality)

2.1 (Continued):

FED-STD-313 Material Safety Data Sheets, Preparation and Submission of
FED-STD-791 Lubricants, Liquid Fuels and Related Products, Methods of Testing

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-290 Packaging of Petroleum and Related Products

49 CFR Transportation - Hazardous Materials

2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor, West Conshohocken, PA 19428-2959.

ASTM D 1403 Cone Penetration of Lubricating Grease Using One-Quarter and One-Half Scale
Cone Equipment

ASTM D 2265 Dropping Point of Lubricating Grease Over Wide Temperature Range

ASTM D 4048 Detection of Copper Corrosion From Lubricating Grease by the Copper Strip
Tarnish Test

ASTM D 4057 Manual Sampling of Petroleum and Petroleum Products

ASTM D 4177 Automatic Sampling of Petroleum and Petroleum Products

2.3 ANSI Publications:

Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ANSI Z129.1 American National Standard for the Precautionary Labeling of Hazardous Industrial
Chemicals

2.4 Order of precedence:

In the event of a conflict between the text of this specification and the references cited herein, the
text of this specification shall take precedence.

3. REQUIREMENTS:

3.1 Qualification:

The grease furnished under this specification shall be products which are qualified for listing on the
applicable qualified products list at the time set for opening of bids (see 4.3 and 6.3).

3.2 Materials:

The grease shall be a mixture consisting of animal, vegetable or synthetic oil, or a combination
thereof, and a suitable gelling agent. The grease shall contain no solid fillers such as graphite, mica,
sulfur, clay, asbestos or chalk.