

NOTE: The document identifier and heading has been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

MIL-PRF-24139A(SH)  
AMENDMENT 3  
12 March 1987  
SUPERSEDING  
AMENDMENT 2  
12 September 1986

## PERFORMANCE SPECIFICATION

### GREASE, MULTIPURPOSE, WATER RESISTANT

This amendment forms a part of MIL-G-24139A(SH), dated 1 May 1984, and is approved for use within the Naval Sea Systems Command, Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 2

2.1.1: Under STANDARDS FEDERAL, add:

"FED-STD-313 - Material Safety Data Sheets, Preparation and the Submission of."

2.1.2: Add as new paragraph:

"2.1.2 Other Government document. The following other Government document forms a part of this specification to the extent specified herein. Unless otherwise specified, the issue shall be the one in effect on the date of the solicitation.

#### DEPARTMENT OF LABOR

Code of Federal Regulations, Title 29 Part 1910,  
Section 1200 - Hazard Communications Standard.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, DC 20402.)"

2.2: Under ASTM add:

"D 2596 - Standard Method for Measurement of Extreme-Pressure Properties of Lubricating Grease (Four-Ball Method)."

AMSC N/A

FSC 9150

DISTRIBUTION STATEMENT A Approved for public release; distribution unlimited

MIL-G-24139A(SH)  
AMENDMENT 3

PAGE 3

3.2: Add as last sentence:

"This grease shall be of such material as to not require additional container labeling in accordance with 29 CFR 1910.1200."

3.2.1: Add as new paragraph:

"3.2.1 Toxicity. The multipurpose grease shall have no adverse effect on the health of personnel when used for its intended purpose. The grease shall contain no components which produce noxious vapors in such concentrations as to be an annoyance to personnel during formulation or use under conditions of adequate ventilation while exercising caution to avoid prolonged contact with the skin and while observing Occupational Safety and Health Administration (OSHA) guidelines. Questions pertaining to the toxic effects shall be referred by the contracting activity to the Naval Medical Command (NAVMEDCOM), Washington, DC, who will act as a medical advisor to the contracting activity."

3.2.2: Add as new paragraph:

"3.2.2 Material safety data sheets. The contracting activity shall be provided a material safety data sheet (MSDS) at the time of contract award. The MSDS is form OSHA-20 and found as part of FED-STD-313. The MSDS shall be included with each shipment of the material covered by this specification."

3.13: Delete and substitute:

"3.13 Load wear index. When tested as specified in 4.5.1, the grease shall have a load wear index of not less than 30."

3.14: Add as new paragraph:

"3.14 Workmanship. The grease, when examined visually, shall be a smooth and homogenous mixture free of lumps and granular materials and shall not have a rancid odor."

MIL-G-24139A(SH)  
AMENDMENT 3

PAGE 5

4.5.1: Delete Table I and substitute:

"TABLE I. Tests.

Inspections	Requirements paragraph	Applicable FED-STD-791 method	Applicable ASTM test method	Test method <sup>1/</sup> paragraph
Visual examination	3.2, 3.14	----	----	4.5.2
Corrosion on copper	3.3	5309		
Penetration:				
worked	3.4		D 217	
after prolonged working	3.4.1		D 217	
Dropping point	3.5		D 2265	
Performance	3.6			4.5.4
Apparent viscosity	3.7		D 1092	4.5.3
Dirt	3.8	3005		
Oxygen stability	3.9		D 942	
Water resistance	3.10		<sup>2/</sup> D 1264	
Low temperature torque	3.11		D 1478	
Bearing protection	3.12		D 1743	
Load wear index	3.13		D 2596	

<sup>1/</sup> Paragraphs cited on required modifications of the applicable test method.

<sup>2/</sup> A temperature of 100°F (38°C) shall be used."

4.5.2, last line: Delete "3.13" and substitute "3.14".

PAGE 7

4.7: Add as new paragraph:

- \* "4.7 Toxicity. To determine conformance to requirements of 3.2.1, the manufacturer of the material shall disclose the formulation of his product to the Naval Medical Command, MEDCOM-242, Washington, DC 20372. The disclosure of proprietary information, which shall be held in confidence by the Naval Medical Command, shall include: the name, formula, and approximate percentage by weight and volume of each ingredient in the product; the results of any toxicological testing of the product; identification of its pyrolysis products; and any such other information as may be needed to permit an accurate appraisal of any toxicity problem associated with the handling, storage, application, use, disposal, or combustion of the material. Information submitted shall be clearly marked or identified to show it is being provided in connection with qualification under MIL-G-24139."

MLL-G-24139A(SH)  
AMENDMENT 3

PAGE 8

6.5: Delete and substitute:

- \* "6.5 Material safety data sheet. Contracting officers will identify those activities requiring copies of completed Material Safety Data Sheets (MSDS) prepared in accordance with FED-STD-313. The pertinent government mailing addresses for submission of data are listed in appendix B of FED-STD-313. In order to obtain the MSDS, FAR clause 52.223-3 must be in the contract."

NOTE: The margins of this amendment are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous amendment.

Preparing activity:  
Navy - SH  
(Project 9150-N809)