A-A-50433
15 August 1989

COMMERCIAL ITEM DESCRIPTION

GREASE, SEA WATER WASH RESISTANT

The General Services Administration has authorized the use of this Commercial Item Description.

Abstract. This grease is intended to replace MIL-G-24139 for use on board submarines.

Salient Characteristics.

Grease supplied for this CID must comply with the requirements of NAVSEA S9520-AB-ATM-010/(U), the Nuclear Powered Submarine Atmosphere Control Manual; NAVSEA T6350-AA-HBK-010, the Submarine Greasing Handbook; and meet the following typical specifications (ASTM test procedures are listed where applicable):

Test	Acceptable Characteristics	Test Procedure
Worked Penetration @ 77 Deg F, 60 Strokes	240-295	ASTM D-217
Penetration After 100,000 strokes max.	295	ASTM D-217
Maximum Apparent Viscosity	300 poises @ 200 sec^{-1} and 32 deg F	ASTM D-1092
Drop point Deg F Minimum	500+	ASTM D-566
Gelling Agent	Aluminum Complex	N/A
% Alkali, max.	0	ASTM D-128
% Water, max.	0	ASTM D-1744
% Molybdenum Disulfide, max.	0	N/A
Free Fatty Acid % Max	0.01	ASTM D-128

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 55Z3, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A FSC 9150

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Test	Acceptable Characteristics	Test Procedure
Oxygen Stability, 50 psi at 210 deg F for 100 hrs.	Max drop 4 psi	ASTM D-942
Water Resistance, Max Sprayoff	≤ 65%	ASTM D-4049
Corrosion on Copper, max	1B	ASTM D-4048
Operating Range	+15 to 350 deg F	N/A
Elastomer Compatibility with NBR-L and FKM		ASTM D-4289
Maximum Volumetric Change	≤ +10% and ≥ 0%	
Maximum Hardness Change	≤ ± 5 Durometer Points	
Steel on Steel Wear	≤ 1.25 mm wear scar after 90 minutes at 60 cycles per minute at 30 lb load with 90 deg angle of oscillation, H-30 Test Block and S-10 Test Ring.	ASTM D-3704
Pumpability Performance	Satisfactory	NAVSEA T6350-AA-HBK-010 Appendix G

The grease shall have each acceptable characteristic listed above when tested in accordance with the respective test method.

The contractor shall certify, and maintain substantiating evidence, that the product offered meets the salient characteristics of this Commercial Item Description, and the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Preservation, packaging, packing, labeling and marking. Preservation, packaging, labeling, and marking shall be as specified in the contract order. The container size shall be 35 pound (5 gallon) cylindrical (non-tapered) cans suitable for use with pneumatic grease guns with follower plates such as Alemite 711H or equivalent.

Notes.

1. ASTM Standards are available from ASTM, 1916 Race Street, Philadelphia, Pa. 19103.
2. It shall be incumbent on the procuring agency to insure that any grease supplied for this CID complies with the requirements of NAVSEA S9520-AB-ATM-010/(U) and NAVSEA T6350-AA-HBK-010. Points of contact at Naval Sea Systems Command are NAVSEA 05M32 (ph 202-692-0144), NAVSEA PMS 390 (ph 202-746-3323), and NAVSEA 56Y14 (ph 202-692-5473).

Custodian
Navy - SH
Army - CD

Review Activity
DLA - PS, GS, CD

Preparing Activity
Navy - SH
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