

INCH-POUND

**MIL-L-87177A
AMENDMENT 1
28 February 1991**

MILITARY SPECIFICATION

LUBRICANTS, WATER DISPLACING, SYNTHETIC

This amendment forms a part of MIL-L-87177A dated 9 February 1990, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

Title: Delete and substitute "LUBRICANTS, CORROSION PREVENTIVE COMPOUND, WATER DISPLACING, SYNTHETIC"

1.1: Delete and substitute "1.1 Scope. This specification covers a synthetic, lubricant, water displacing corrosion preventive compound which may be applied from gas pressurized containers, or by dipping or brushing."

1.2.2a: Delete.

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2.1.1, under FEDERAL: Delete "A-A-51126, QQ-A-250/4, QQ-B-626, QQ-C-576, QQ-M-44, MIL-A-18001."

PAGE 3

Lines 1, 2 and 3: Delete and substitute "Unless otherwise indicated, copies of federal and military specifications and standards are available from the Standardization Documents Order Desk, Bldg 4D 700 Robbins Avenue Philadelphia PA 19111-5094."

PAGE 4

3.4.1.1 and 3.4.1.2, lines 2, after section: Add "4."

3.4.3: Delete.

AMSC N/A

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FSC 9150

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited

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Table I: Delete and substitute.

TABLE I. Physical and chemical properties.

<u>Characteristics</u>	<u>Limits</u>
Dryness	0.0100 gram (max)
Flash point	243°C(470°F)(min)
Dielectric breakdown	25,000 volts (min)
Lubricity	1.20 mm wear scar diameter (max)
Residue soluble trichlorotrifluoroethane	No visible residue
Oxidation stability	Less than 5 pounds per 100 hrs
Grade B corrosion	No evidence of corrosion on the resistance base metal when exposed for 168 hours in accordance with methods s specified in section 4.
Sprayability	Sprayable.
Grade C shall meet all the physical and chemical properties in table I except the corrosion resistance (Grade B) requirements.	

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Table II: Delete and substitute.

TABLE II. First article testing 1/

<u>Characteristics</u>	<u>Requirements</u>	<u>Test method</u>	<u>ASTM</u>
Dryness	3.3, table I	4.6.1	
Flash point	3.3, table I		D1310
Dielectric breakdown	3.3, table I		D877
Lubricity	3.3, table I		D2266 <u>2/</u>
Residue soluble in trichlorotrifluoroethane	3.3, table I	4.6.3	
Leakage	3.4.1.1	4.6.4	
Content	3.4.1.2	4.6.5	
Performance of pressurized containers	3.4.1.2	4.6.6	
Oxidation stability	3.3, table I		D942
Grade B corrosion resistance	3.4.4	4.6.8	
Sprayability	3.3, table I	4.6.9	
Grade C shall meet all the first article testing in table II, except the corrosion resistance (Grade B) requirements.			

1/ Refer to 4.3.12/ Compound shall be weathered before loading into ball pot.

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Table III, lines 3 and 4: Delete “Grade A Corrosivity 3.4.3 4.4, 4.5, 4.6, 4.6.7”.

4.6.2: Delete.

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4.6.7, 4.6.7.1, 4.6.7.1.1, 4.6.7.1.2, 4.6.7.2: Delete.

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Line 3, from top of page, delete and substitute: “LUBRICANTS, CORROSION PREVENTIVE COMPOUND, WATER DISPLACING, SYNTHETIC GRADE _____”.

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6.3: Delete and substitute “Typical formulation of compound for Grade B. Grade B is intended for applications where severe corrosion is possible. Grade B can be used for control of surface static electricity and as a barrier film to minimize surface contamination”.

6.3.1: Delete.

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Table IV: Delete.

Custodians:
Army – ME
Navy – AS
Air Force – 11

Preparing activity:
Air Force – 11

Review activities:
Air Force – 68
DLA – GS

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User activities:
Army – AR
Navy – EC