

INCH-POUND

MIL-M-46696D(AR)
AMENDMENT 5
27 March 1998
SUPERSEDING
AMENDMENT 4
22 April 1977

MILITARY SPECIFICATION

MINE, ANTIPERSONNEL, M16A2
LOADING, ASSEMBLING AND PACKING

MIL-M-46696D was inactivated after 13 February 1997 for New Design.

This amendment forms a part of MIL-M-46696D (AR), dated 20 September 1974, and is approved for use by the U.S. Army Armament Research, Development and Engineering Center, and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

* Add Distribution Statement as follows:

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

PAGE 2

Paragraph 2.1 - Under "Drawings" add the following:

"2128256 - Package, Shipping and Storage of 24 Spool
Assembly, Trip Wire
3139693 - Pack, Shipping and Storage for 96 Spool
Assembly, Trip Wire
8876013 - Mine, Apers, M16A2 w/Fuze M605, Mine Comb"

Delete paragraph 3.6 and 3.7 and substitute the following:

"3.6 LEAKAGE AND FUNCTIONING - The loaded mine assembly shall show no evidence of leakage and shall function satis-

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AMSC N/A

FSC 1345

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factorily upon completion of the leak test. Satisfactory functioning shall be defined as the bursting of the mine at a height of not less than one foot nor more than five feet above the surface of the ground, and with an average height of burst for all mines tested of less than two nor more than four feet."

PAGE 4

Paragraph 4.3.2, Line 2 delete 4.57 and substitute "4.5.6 and 4.5.8".

Paragraph 4.3.2, Line 2 delete "and 4.5.8".

PAGE 5

Under the Examination sub-paragraphs of 4.4.2 add Classification of Defects paragraphs 4.4.2.10 and 4.4.2.11.

PAGE 6

Paragraph 4.4.2.1 - Delete "Detonator Assembly" and substitute "Detonator Flash PA 504".

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Paragraph 4.4.2.2 - Delete "Propelling Charge Assembly" and substitute "Charge Propelling Mine PA 500".

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Paragraph 4.4.2.3 - Delete "Delay Assembly" and substitute "Delay Element PA 500".

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Paragraph 4.4.2.5 - Delete "8796365" and substitute "8876013" and delete "Body Loading Assembly" and substitute "Mine, Antipersonnel M16A2 Assembly".

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- * 4.4.3.2: Delete the first sentence and substitute the following:
"The moisture content of the black powder shall be determined at the time of loading not less than once for each ten hours of production, or portion thereof."

QUALITY CONFORMANCE INSPECTION

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CLASSIFICATION OF CHARACTERISTICS

PARAGRAPH	TITLE	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAPHRASE	DRAWING NUMBER
4.4.2.10	Package, Shipping and Storage for 24 Spool Assembly, Trip Wire					2128256
						NEXT HIGHER ASSEMBLY
						INSPECTION METHOD REFERENCE
<u>Critical</u>	None defined					
<u>Major B</u>	Tray interfering with lid seal		*	0.40% *	3.2 2128256	Visual Visual Drawing Note
131	Excessive moisture content of packing material					
132						
<u>Minor</u>	Contents loose			0.65%	3.2	Visual/Manual
201	Markings misleading or unidentifiable			0.65%	3.2	Visual
202	Evidence of poor workmanship			1.0%	3.8	Visual
203						

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QUALITY CONFORMANCE INSPECTION

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CLASSIFICATION OF CHARACTERISTICS

PARAGRAPH 4.4.2.11	TITLE Pack, Shipping and Storage for 96, Spool Assembly, Trip Wire	SHEET 1 OF 1	DRAWING NUMBER 3139693
CLASSIFICATION	EXAMINATION OR TEST	REQUIREMENT PARAGRAPH	NEXT HIGHER ASSEMBLY INSPECTION METHOD REFERENCE
<p><u>Critical</u></p> <p><u>Major B</u> 131</p> <p><u>Minor</u> 201 202</p>	<p>None defined</p> <p>Car Seal missing or broken</p> <p>Markings misleading or unidentifiable</p> <p>Evidence of poor workmanship</p>	<p>3.2</p> <p>3.2 3.8</p>	<p>Visual</p> <p>Visual Visual</p>

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Delete paragraph 4.4.3.5 and substitute the following: "4.4.3.5 Sequential leakage and functioning tests (See 3.6). - Major Defect.

Delete paragraph 4.4.3.5.1 and substitute the following:

"4.4.3.5.1 Beginning with the first lot produced and continuing until three (3) consecutive lots have complied with the acceptance criteria specified, eighty (80) assemblies shall be selected from each lot and tested as specified in 4.5.6. The lot shall be rejected if two or more assemblies fail to comply with the leak test requirement of 3.6 of if:

a. Three (3) or more mines burst at a height of less than one (1) foot or more than five (5) feet.

b. The average height of burst is less than two (2) feet or more than four (4) feet.

c. Two (2) mines fail to burst".

Delete paragraph 4.4.3.5.2 and substitute the following:

"4.4.3.5.2 After three (3) consecutive lots have met the criteria of 4.4.3.5.1, fifty (50) assemblies shall be selected from each lot for this test. The lot shall be rejected if two or more assemblies fail to comply with the leak test requirement of 3.6 of if:

a. Two (2) or more mines burst at a height of less than one (1) foot or more than five (5) feet.

b. The average height of burst is less than two (2) feet or more than four (4) feet.

c. Two (2) mines fail to burst".

Add paragraph 4.4.3.7 as follows:

"4.4.3.7 Leakage (See 3.6).- Major A defect. - Eighty (80) samples shall be selected from each lot for this test. The

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lot shall be rejected if two or more samples fail to comply with the applicable requirement. The test shall be performed as specified in 4.5.8 using equipment in accordance with 4.4.4".

Delete Paragraph 4.4.3.7.

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Delete paragraph 4.5.6 and substitute the following:

"4.5.6 Sequential Leak and Functioning Tests. - The mines shall be subjected to alternate leak test "A" or "B" and then functioned by assembling each mine with a M605 combination mine fuze and placed in a hole in the ground to a depth that the top of the mine will be covered, but the release spring of the fuze uncovered when the hole is filled with firmly packed sand, fine gravel or dirt and made level. The fuze shall be functioned and observation made for satisfactory functioning to determine compliance with 3.6.

a. Alternate Leak test "A" - The mines shall be placed in a test chamber and subjected to an external air pressure of three pounds per square inch gage. The mines shall then be submerged in no more than eight (8) inches of water, as measured from the bottom of the mine to the surface of the water, and the pressure release. Observation shall be made for evidence of leakage as determined by the presence of bubbles for a period of 30 seconds, minimum.

b. Alternate Leak Test "B" - The mine shall be submerged inside a chamber, in no more than 8 inches of water as measured in "a" above. A 3 psi pressure differential by vacuum shall be applied and the mine shall be observed for evidence of leakage as determined by the presence of bubbles.

A mine failing the leak test shall be replaced by another mine for use in the functioning test. Such an additional mine shall also be subjected to the leak test but shall not be used in determining acceptability of the lot regarding the leak test."

Add paragraph 4.5.8 as follows:

"4.5.8 Leakage. - The mines shall be placed in a test chamber and subjected to an external air pressure of three

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pounds per square inch gage. The mines shall then be submerged in water and the pressure released. Observation shall be made for evidence of leakage as determined by the presence of bubbles for a period of 30 seconds, minimum. Mines which fail to pass this test shall not be returned to the lot."

Delete paragraph 4.5.8

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Add paragraph 5.1.2 as follows:

"5.1.2 Level A. - For Marine Corps using packaging and packing shall be in accordance with dwgs. 2128256 and 3139693."

Delete Paragraph 5.2 and substitute the following:

"5.2 Marking. - Marking shall be as specified on dwg. 7548179 or dwgs. 2128256 and 3139693."

Paragraph 6.1 - Add note d as follows:

"d. For Marine Corps procurement packing, packaging and marking see paragraphs 5.1.2 and 5.2."

The margins of this amendment are marked with an asterisk or vertical line 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 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.

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