

INCH-POUND

MIL-W-63468A(AR)  
AMENDMENT 7  
25 April 2000  
SUPERSEDING  
AMENDMENT 6  
13 November 1996

MILITARY SPECIFICATION

WARHEAD, 2.75 INCH ROCKET, H.E.: M261

This amendment forms a part of MIL-W-63468A(AR), dated 7 October 1983, 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

Paragraph 2.1.1, SPECIFICATIONS, MILITARY, Add:

"QAC-1415 - Rocket, 2.75 Inch/Hydra-70: Assembly, Packing and Testing".

Bottom of page: Add:

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

PAGE 2

- (a) Paragraph 2.1.2: Delete section from "MISSILE INTERIM ..." to "... Alabama 35898.)".
- (b) Delete references to specification MIS-30862 and substitute QAC-1415. Make this substitution wherever it appears in this document.
- (c) Paragraph 2.1.2, Product Drawings: Add: "12937865 - Packing and Marking for Container, Metal, for 2.75 Inch Rkt., M261/M267".

MIL-W-63468 (AR)

Amendment 7

(d) Paragraph 2.1.2: Add :

"PUBLICATIONS

ITOP-1-2-601      --      Laboratory Inspection Schedules,  
International Test Operations Pro-  
cedures (ITOP), TECOM".

PAGE 3

(a) Delete paragraph 3.7.

(b) Paragraph 3.9: Delete "components" and substitute "major components, assemblies, and subassemblies, such as: pusher plate, M73 Grenade, flat flex lead, lead tape, auto jettison retaining rings, etc."

PAGE 4

Paragraph 3.16, first sentence: Delete "and shall comply with the ballistic test as specified 4.5.8."

PAGE 7

TABLE I. First Article Inspection:

(a) Delete "102" and substitute "108" (four places).

(b) Note (a): Delete "leakage tests (6)" and substitute "non-environmental (6)".

(c) Delete Note (b) and substitute "The first article ballistic sample, with units from secured cargo (36), helicopter vibration (19), and leakage test (6), shall be rejected if two or more payloads fail to eject, or 34 more grenades fail to function."

PAGE 8

Paragraph 4.4.1.d. at the end of the sentence, add "except no more than six lots of warhead cases may be used within each individual warhead case interfix number from one manufacturer".

Paragraph 4.4.1, last line: Delete "4,000." and substitute "5,000."

MIL-W-63468 (AR)  
Amendment 7

PAGE 10

Paragraph 4.4.2.2:

(a) Critical category: Delete "None defined" and substitute Critical defect 1: Pulled arming pin (b) 100% 3.2 Gage".

(b) Add Major defect 105: "Presence of correct auto jettison retaining rings 100% 3.2 Visual (c)".

(c) Add Notes (b) and (c):

"(b) To be performed just prior to grenade stacking.

(c) No. 9 retaining ring is different from No. 1 - No. 8 retaining rings and it is color-coded. Inspection of the retaining rings shall be performed after stacking, but before insertion of grenades into the warhead case. Count the number of parts (Retaining Ring, Auto Jettison No. 9 (12561496) and No. 8 (12561951) at the beginning and end of each shift. Check the difference of the two figures to ensure that it agrees with the amount of grenade assemblies produced during the shift."

PAGE 11

Paragraph 4.4.2.3:

(a) Major defect 109: Delete and substitute: "Leakage test 6 -- 3.16 4.5.6".

(b) Add Major defect 110: "Ballistic test 36 -- 3.18 4.5.8".

(c) Add 4.4.2.4 (included as Page 11a).

PAGE 12

(a) Paragraph 4.5.1, second sentence, Delete and substitute:  
"Verify that all major components, assemblies, and sub-assemblies, such as: pusher plate, M73 Grenade, flat flex lead, lead tape, auto jettison retaining rings, etc., are present and properly placed, that all grenades are safe, and that no foreign material is present."

(b) Paragraph 4.5.2, second sentence: Delete "2.75 Inch Rocket Motors" and substitute "2.75 inch MK66 rocket motors".

(c) Paragraph 4.5.2: Delete "box" and "boxes" and substitute "box or metal container" or "boxes or metal containers" where applicable (8 places).

## QUALITY CONFORMANCE INSPECTION

# **CLASSIFICATION OF CHARACTERISTICS** MIL-W-63468 (AR) Amendment 7

PARAGRAPH 4.4.2.4	TITLE Grenade, General Purpose, High Explosive: M73	SHEET 1 OF 1	DRAWING NUMBER 9334143
CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	NEXT HIGHER ASSEMBLY 9334122
		REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
<u>Critical</u>	None defined.		
<u>Major</u>			
101	Correct positioning of auto jettison retaining ring	100%	3.2 Visual
<u>Minor</u>			
201	Evidence of poor workmanship	0.65%	3.4 Visual
NOTES:	.		

AMSMC FORM 1570b-E, 1 Jul 89

Replaces AMSMC Form 1570, 1 Feb 85, which may not be used

MIL-W-63468A (AR)

Amendment 7

PAGE 13

Paragraph 4.5.2, 2nd last paragraph, line 3: After "containers" add "(fiber containers are not required if fastpack is used)".

PAGE 14

(a) Paragraph 4.5.2, last paragraph, line 3: Delete "intact and securely in place)." and substitute "intact and not manually removable)."

(b) Paragraph 4.5.3, third paragraph: Delete "The packed shipping boxes . . . Resonance testing does not apply." and substitute "The packed shipping boxes or metal containers shall be subjected to the vibration test in accordance with paragraph 4.1, and with Figures on pages: B-3, B-4, and B-5 (40 min./axis); B-6, B-7, and B-8 (32 min./axis), International Test Operations Procedures (ITOP), 1-2-601, dated 01 March 1988. Resonance testing does not apply."

PAGE 16

Paragraph 4.5.6:

- (a) Second line: (1) Delete "512.1" and substitute "512".  
(2) Delete "for first article testing only."

(b) End of paragraph, Add: "To inspect the cargo compartment, unthread the base plug in the rear of the warhead, and remove the nose cone and base nose cone assemblies. If one or more warheads fail to meet the requirement, the test shall be considered a failure. This test is to be conducted for first article testing and until two consecutive lots have complied with the acceptance criteria specified. After satisfying this requirement, the leakage test shall be performed on every subsequent third lot only. Should the lot fail the acceptance criteria, the contractor shall be required to return to the two consecutive lot procedures above."

Paragraph 4.5.8: Delete and substitute:

"4.5.8 Ballistic test. The tactical requirement for the warhead is to provide proper delivery of M73 grenades into target areas from 1000 to 6000 meters from the launching helicopter. Performance shall be evaluated by ground launching a sample of 36 M261 warheads, assembled with MK66 Mod 1 or Mod 2 motors, from any of the compatible launchers into a permanently contaminated field. Twelve warheads shall be conditioned at  $-50^{\circ} + 5^{\circ}$  F, 12 warheads at  $+70^{\circ} \pm 15^{\circ}$  F, and 12 warheads at  $+150^{\circ} - 5^{\circ}$  F for a minimum period of 8 hours. Firing and fuze

MIL-W-63468 (AR)

Amendment 7

charging shall be accomplished by means of a Government-approved ballistic firing test set, using approximate fuze time settings to achieve airburst ranges of 1000, 3000, and 6000 meters. Time from launch to cargo ejection, and number of grenade functions, shall be detected and recorded. If three or more payloads fail to eject, or 22 or more grenades fail to function, the lot shall be rejected."

PAGE 19

Paragraph 6.3: Delete "US Army Armament Research and Development Command, ATTN: DRDAR-QAF-I, Dover, NJ 07801." and substitute "U.S Army Armament Research, Development, and Engineering Center, Attn: AMSTA-AR-QAC-S, Picatinny Arsenal, NJ 07806-5000."

The margins of this amendment are marked with vertical lines to indicate where changes to 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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