

MIL-B-23360B
30 April 1970
SUPERSEDING
MIL-B-23360A
20 February 1969
INTERIM AMENDMENT 3(MI
1 April 1969

MILITARY SPECIFICATION

BOMB, INCENDIARY. TH3, 4-POUND, M126

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 This specification covers the filling and assembly of the M126 incendiary bomb.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

STANDARDS

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-1168 - Lot Numbering of Ammunition.

DRAWINGS

US ARMY MUNITIONS COMMAND

EDGEWOOD ARSENAL

- DL14-5-3018 - Bomb, Incendiary, 4 Pound, TH3, M126.
- IDL14-5-3018 - Bomb Incendairy, 4 Pound, TH3, M126, Inspection Data List.

FSC 1325

IIL-B-23360B

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

3. REQUIREMENTS

3.1 Materials and components.

3.1.1 Materials. All materials cited on Drawing DL14-5-3018 or on the subsidiary drawings shall conform to the specifications thereon, or to the specific characteristics set forth on the drawings.

3.1.2 Components. All components shall conform to the specifications and drawings listed on Drawing DL14-5-3018 and subsidiary drawings.

3.2 Filling and assembly.

3.2.1 Filling. (see 6.2).

(a) Main charge. The bomb shall be filled with thermate TH3 as specified on Drawing DL14-5-3018. The thermate shall be consolidated in not less than 3 approximately equal increments under a minimum dead load of 500 pounds and a maximum of 7500 pounds dead load. The dead load shall be maintained for a minimum of 3 seconds for each increment. The ram used for the consolidation of all increments shall be shaped to give the depression as shown on Drawing DL14-5-3018. (See 6.3).

(b) First fire mixture. The bomb shall contain 42 to 62 grams of first fire mixture. The mixture shall be consolidated at a dead load of 500 to 7500 pounds, using a ram shaped to form the depression shown on Drawing DL14-5-3018. The dead load shall be maintained for 3 to 5 seconds.

3.2.2 Assembly. The bomb shall be assembled in accordance with Drawing DL14-5-3018.

3.3 Functioning. The bomb shall function as follows:

- (a) Primer detonation.
- (b) Ignition of first-fire mixture.
- (c) Ignition of thermate (TH3).
- (d) Complete burning of the magnesium body to full depth of the thermate.

3.3.1 Five-foot drop. The bomb shall not function when dropped from a height of 5 feet \pm 1-inches and tested as specified in 4.4.4 and 4.4.5.

3.3.2 Forty-foot drop. The bomb shall function when dropped from a height of 40 feet \pm 3 inches and tested as specified in 4.4.4 and 4.4.5.

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3.4 Preproduction. Prior to the start of regular production, a pre-production lot of bombs shall be produced in accordance with this specification for examination and test (see 4.3).

3.5 Workmanship. The bomb shall be free of all foreign matter and damage such as cracks, and deformation which could affect its intended use.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection.

4.1.1 Supplier's responsibility. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspection are deemed necessary to assure supplies and services conform to specified requirements.

4.1.2 Objective evidence. The supplier shall provided objective evidence acceptable to the contracting officer that the requirements of 3.1 and section 5 for which specific inspection has not been provided in this specification have been satisfied.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- (a) Preproduction inspection (see 4.3).
- (b) Quality conformance inspection (see 4.4).

4.3 Preproduction inspection.

4.3.1 Lot. A preproduction lot of 2000 bombs shall be manufactured using the same methods, materials, equipment, and processes as will be used during regular production.

4.3.2 Sampling.

4.3.2.1 For examination. Sampling shall be conducted in accordance with MIL-STD-105, general inspection level III.

4.3.2.2 For destructive tests. Eighty bombs shall be taken at random, 40 for the 5-foot drop test and 40 for the 40-foot drop test.

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4.3.3 Inspection procedures.

4.3.3.1 For examination. Sample bombs shall be examined in accordance with the classification of defects and MIL-STD-105.

4.3.3.2 For destructive tests. Sample bombs shall be tested in accordance with 4.4.4 and 4.4.5.

4.3.3.3 Acceptance/rejection criteria. The preproduction lot shall meet the examinations and tests specified herein to be acceptable. The supplier shall obtain written approval from the contracting officer prior to proceeding with regular production.

4.4 Quality conformance inspection.

4.4.1 Lotting. Each lot shall be identified and controlled in accordance with MIL-STD-1168. Contained in any one interfix number of bombs, no more than one interfix number from one manufacturer produced in one week of the following components is permitted:

- (a) M126 bomb hardware
- (b) Fin assemblies
- (c) First fire mixture
- (d) Thermate

4.4.2 Sampling.

4.4.2.1 For examination. Sampling shall be conducted in accordance with MIL-STD-105.

4.4.2.2 For destructive tests.

(a) Five-foot drop. Forty bombs, 20 for first sample and 20 for second sample, shall be taken at random from each production lot for test.

(b) Forty-foot drop. Forty bombs, 20 for first sample and 20 for second sample, shall be taken at random from each production lot for test.

4.4.3 Inspection procedure.

4.4.3.1 For examination. Sample bombs shall be examined in accordance with the classification of defects and MIL-STD-105.

4.4.3.2 For destructive tests. Sample bombs shall be tested in accordance with 4.4.4 and 4.4.5.

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4.4.3.3 For critical defects. Each bomb shall be inspected for its critical characteristic listed in the classification of defects.

4.4.3.4 Classification of defects. (See Inspection Data List IDL14-5-3018 for inspection equipment required to perform the examinations prescribed in this section).

(a) Bomb, incendiary, 4-lb, TH3, - assembly (Dwg D14-5-3018)

<u>Categories</u>	<u>Defects</u>
<u>Critical:</u>	
1	Safety plunger missing
<u>Major:</u>	AQL 1.0 percent defective
*101	Filling damaged or incorrect
102	Component missing or incorrectly assembled
103	Depth to first fire mixture incorrect
104	Drive screw loose or not flush
105	Marking illegible or incorrect
106	Waterproofing missing
107	Overall length incorrect
**108	Sealing compound missing or inadequate. Add if applicable.
109	Safety plunger nonfunctional
110	Workmanship (3.5)
111	Loose first fire mixture on top of consolidated first fire mixture, exceeds 5 grams
*112	First fire mixture, and quantity is incorrect

*Check prior to completing assembly.

**Sealing compound is applied to one bomb per cluster.

(b) Holder, primer - assembly (Dwg A14-5-115)

<u>Categories</u>	<u>Defects</u>
<u>Critical:</u>	None defined
<u>Major:</u>	AQL 0.65 percent defective
101	Primer missing
102	Primer loose
103	Workmanship (3.5)

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4.4.4 Tests. The bomb shall be dropped, nose-down, from the specified height, as applicable, onto a level 1/2-inch-thick, nominal, steel plate, 4- to 6-inches square, imbedded in a concrete block at least 12 by 12 by 12 inches and placed on a level concrete surface.

4.4.5 Acceptance/rejection criteria. Each regular production lot shall be accepted in accordance with table I.

Table I. Acceptance/rejection criteria

Test	1st sample	Failures	Action	1st sample plus 2nd sample	Failures	Action
5-foot drop test	20	0 1 2 or more	Accept Test 2nd sample Reject	40	1 2 or more	Accept Reject
40-foot drop test	20	0 1 2 or more	Accept Test 2nd sample Reject	40	1 2 or more	Accept Reject

5. PREPARATION FOR DELIVERY

5.1 Packaging, and packing information is not applicable to this specification.

6. NOTES

6.1 Ordering data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) If special packaging and packing is required for training purposes, this information will be made available upon request to the preparing activity.

6.2 Caution. Due to the hazardous nature of filling munitions with incendiary material, filling installations are advised to take all necessary precautions to protect personnel from injury when filling bombs.

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6.3 Filling. The approximate weight of the thermate TH3 charge for each bomb is 9.35 ounces. This information is furnished as an aid to procurement and not as a criterion for filling.

Custodians:

Army - MU
Air Force - 70

Preparing activity:

Army - MU(EA)

Review activity:

Air Force - 70

Project No. 1325-0146

SPECIFICATION ANALYSIS SHEET

Form Approved
Budget Bureau No. 22-R

INSTRUCTIONS: This sheet is to be filled out by personnel, either Government or contractor, involved in use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.

SPECIFICATION

ORGANIZATION

CITY AND STATE

CONTRACT NUMBER

MATERIAL PROCURED UNDER A

☐

DIRECT GOVERNMENT CONTRACT

☐

SUBCONTRACT

1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A. GIVE PARAGRAPH NUMBER AND WORDING.

B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID

3. IS THE SPECIFICATION RESTRICTIVE?

☐

YES

☐

NO (If "yes", in what way?)

4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional pages attach to form and place both in an envelope addressed to preparing activity)

SUBMITTED BY (Printed or typed name and activity - Optional)

DATE

DD FORM 1426
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.

FOLD

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