

METRIC
DOD-C-64019 (AR)
5 August 1983

MILITARY SPECIFICATION

CARTRIDGE, 30MM, DUMMY, M848

This specification is approved for use by the U.S. Army Armament Research and Development Command and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 This specification covers requirements quality assurance provisions, and packing of dummy cartridge for use in drills of the weapon mechanism and to test link/delink functions.

2. APPLICABLE DOCUMENTS

2.1 Government documents

2.1.1 Specification and standards. Unless other wise specified (see 6.2) the following specification and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation, form a part of this specification to the extent specified herein.

SPECIFICATIONS

MILITARY

MIL-A-48078	-	Ammunition, Standard Quality Assurance Provisions, General Specifications for
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STANDARDS

MILITARY

MIL-STD-105	-	Sampling Procedures and Tables for Inspection by Attributes
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2.1.2 Other government documents, drawings and publications. The following other government documents, drawings and publications form a part of this specification to the extent specified herein:

FSC 1305

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, US Army Armament Research and Development Center, Attn. DRSMC-QA, Dover, New Jersey 07801 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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DRAWINGS

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND
(ARRADCOM)

PRODUCT AND PACKING DRAWINGS

11825935	-	Cartridge, 30MM, Dummy, M848
11825890	-	Container, Shipping and Storage 30MM, Bulk Packed
11825891	-	Container, Shipping and Storage 30MM, Linked, RH-Packed
11825892	-	Container, Shipping and Storage 30MM, Linked, LH-Packed
10542565	-	Container, Shipping and Storage M592
11825879	-	Link, Cartridge 30MM M29
11825893	-	Marking, Shipping and Storage Container

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

2.2 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

3. REQUIREMENTS

3.1 General

3.1.1 Material. Materials shall be accordance with the applicable drawings and specifications.

3.1.2 Cartridge. The cartridge shall comply with all requirements specified on Drawing (Dwg.11825935) all associated drawings and with all requirements specified in applicable specifications.

3.2 Manufacturing process. All parts and assemblies shall be manufactured by a process approved by the Contracting Officer and no deviation from that process shall be made without prior approval. (See 6.2).

3.3 First article inspection. This specification contains technical provisions for the first article inspection. Unless otherwise specified by the contracting officer, a first article inspection sample is required (see 6.1).

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3.4 Workmanship. All parts and assemblies shall be fabricated and assembled in a thorough workmanship manner. They shall be free of burrs, sharp edges, cracks, scratches, dents, folds, wrinkles, buckles, dirt, grease, oil, rust and other foreign matter. The cleaning method used shall not be injurious to any parts, nor shall the parts be contaminated by the cleaning agents. Exterior surface coatings shall be continuous; however, light scratches not exposing base material may be permitted. All required marking and stamping shall be neat and cleanly defined.

3.4.1 Process defects. The cartridges shall be free of defects such as folds, wrinkles, buckles, splits, severe scratches, cuts, dents, perforations and other forms of substandard workmanship.

3.4.2 Cleanliness. The cartridge and its components shall be free of all foreign matter.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection and standard quality assurance provisions. Unless otherwise specified herein or in the contract, the provisions of MIL-A-48078 shall apply and are hereby made a part of this detail specification.

4.2 Classification of inspections. The following types of inspection shall be conducted on this item:

- a. First Article Inspection.
- b. Quality Conformance Inspection.

4.3 First article inspection.

4.3.1 Submission. The contractor shall submit a first article as designated by the Contracting Officer for evaluation in accordance with the provisions of 4.3.2.

4.3.2 Inspection to be performed. See MIL-A-48078 and Table I.

4.3.2.1 First article inspection. Prior to submission of the first article sample to the Government, the contractor shall inspect all components and assemblies for all contract, drawings, and specification requirements.

4.3.3 Rejection. See MIL-A-48078 and the following:

4.3.3.1 First article sample failure. Failure of the sample to comply with the requirements of the drawings and specifications shall result in sample disapproval.

TABLE I First article inspection

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CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE	NO. OF SAMPLE UNITS	AQL OR 100%	SHEET 1 OF 1	DRAWING NUMBER
	Cartridge, 30MM, Dummy, M848				
CATEGORY	EXAMINATION OR TEST			REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE / INSPECTION METHOD
	<u>Screw, Machine, Pan Head, Cross Recess (Dwg 11825939)</u>				
	Examination for defects	50	ACC-0 REJ-1	3.1.2	Visual
	<u>Case, Cartridge, 30MM, Dummy (Dwg 11825938)</u>				
	Examination for defects	50	ACC-0 REJ-1	3.1.2	4.4.2.2
	<u>Projectile Body, Dummy (Dwg 11825937)</u>				
	Examination for defects	50	ACC-0 REJ-1	3.1.2	4.4.2.1
	<u>Projectile, Dummy (Dwg 11825936)</u>				
	Examination for defects	50	ACC-0 REJ-1	3.1.2	Visual
	<u>Cartridge, 30MM, Dummy, XM848 (Dwg 11825935)</u>				
	Examination for defects	50	ACC-0 REJ-1	3.1.2	4.4.2.3
	Screw torque	50	ACC-0 REJ-1	3.1.2	4.5.1
NOTES:					

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4.4 Quality conformance inspection.

4.4.1 Inspection lot formation. Inspection lots shall comply with the lot formation provisions of MIL-A-48078. In addition, each inspection lot shall contain:

a. Cartridge cases from one interfix lot number from one manufacturer,

b. Projectile parts from one interfix lot number from one manufacturer.

4.4.2 Examination. See MIL-A-48078

Sampling plans. Unless otherwise specified in the Classification of Defects and Test Tables, sampling plans for major and minor defects shall be in accordance with MIL-STD-105, Inspection Level II.

Quality Conformance Inspection

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CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE	SHEET 1 of 1		DRAWING NUMBER
CATEGORY	EXAMINATION OR TEST	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE / INSPECTION METHOD
4.4.2.1	Projectile Body, Dummy			11825937 NEXT HIGHER ASSEMBLY
<u>Critical:</u>	None defined			
<u>Major:</u>				
101.	Outside dia, base max	.40%	3.1.2	Gage Scale
102.	Weight	.40%	3.1.2	
<u>Minor:</u>				
201.	Protective finish	.65%	3.4	Visual
202.	Workmanship			
<u>NOES:</u>				

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Quality Conformance Inspection

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CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE	SHEET 1 of 1		DRAWING NUMBER
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH
4.4.2.2	Case, Cartridge, 30MM, Dummy			11825938
				NEXT HIGHER ASSEMBLY
				PARAGRAPH REFERENCE / INSPECTION METHOD
<u>Critical:</u>	None defined	4.4.	.40%	3.1.2
Major: 101.	Inside diameter of mouth (min)			Gage
Minor: 201. 202.	Diameter, hole in base Workmanship		.65%, .65%	3.1.2 3.4
				Gage Visual
NOTES:				

Quality Conformance Inspection

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CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE	SHEET 1 OF 1		DRAWING NUMBER 11825935
CATEGORY	EXAMINATION OR TEST	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE / INSPECTION METHOD
4.4.2.3	Cartridge, 30MM, Dummy, M848			NEXT HIGHER ASSEMBLY
<u>Critical:</u>	None defined			
<u>Major:</u>				
101.	Overall length, max	.40%	3.1.2	Gage
102.	Profile and alignment	.40%	3.1.2	Gage
103.	Projectile torque	.40%	3.1.2	4.5.1
104.	Crimp missing or incomplete	.40%	3.1.2	Visual
<u>Minor:</u>				
201.	Marking incorrect, incomplete, illegible or missing	.65%	3.1.2	Visual
202.	Protective coating damaged or incomplete	.65%	3.1.2	Visual
203.	Incorrect type cartridge or component	.65%	3.1.2	Visual
204.	Workmanship	.65%	3.4	Visual
<u>Notes:</u>				

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4.5 Test methods and procedures.

4.5.1 Screw torque. A longitudinal torque to the specified requirement shall be applied slowly to the screw in the counter-clockwise direction. If there is movement of the screw with respect to the projectile body, the cartridge shall be classified as defective.

4.5.2 Inspection equipment. The inspection equipment required to perform the examinations and tests prescribed herein is described in the "Paragraph Reference/Inspection Method: column in the tables starting with Paragraph 4.4.2.1. The contractor shall submit for approval inspection equipment designs in accordance with the terms of the contract. See section 6 of MIL-A-48078 and Section 6 herein.

5. Packaging

5.1 Packing level A. The type of ammunition pack shall be in accordance with instructions from the procuring activity. Ammunition shall be packed in accordance with dwgs. 11825932, 11825933 or 11825934 as specified by the procurement activity.

5.2 Marking. Marking on the packed container shall be in accordance with Dwg. 11825893 as applicable.

6. Notes

6.1 Ordering data. See MIL-A-48078.

6.2 Process deviation. A process deviation is defined as a change in the approved basic method of manufacture or an operational change which may allow the metallurgical or physical properties of the item.

6.3 Submission of designs for approval. See 6.2.3 of MIL-A-48078. Submit equipment designs, as required to Commander, ARRADCOM, ATTN: DRDAR-QAF-I, Dover, NJ 07801. The letter of submittal shall state contractor, contract number, specification number, item nomenclature and classification of defects or test paragraph.

6.4 Submission of results of contractor - contracted examination and tests. Unless otherwise specified by the contracting officer, the contractor should forward requested records of examination of tests to ARRADCOM, ATTN: DRDAR-QAF-S, Dover, NJ 07801.

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 1305-A913)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)***1. DOCUMENT NUMBER**

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2. DOCUMENT TITLE

CARTRIDGE, 30MM, DUMMY, M848

3a. NAME OF SUBMITTING ORGANIZATION**4. TYPE OF ORGANIZATION (Mark one)**☐

VENDOR

☐

USER

☐

MANUFACTURER

☐

OTHER (Specify): _____

b. ADDRESS (Street, City, State, ZIP Code)**5. PROBLEM AREAS****a. Paragraph Number and Wording:****b. Recommended Wording:****c. Reason/Rationale for Recommendation:****6. REMARKS****7a. NAME OF SUBMITTER (Last, First, MI) - Optional****b. WORK TELEPHONE NUMBER (Include Area Code) - Optional****c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional****8. DATE OF SUBMISSION (YYMMDD)**

(TO DETACH THIS FORM, CUT ALONG THIS LINE.)