MILITARY SPECIFICATION

CONTAINER, AMMUNITION, METAL, FOR CARTRIDGE, 120MM, TANK AMMUNITION

This Specification is approved for use within the U.S. Army Armament, Munitions and Chemical Command, and is available for use by all Departments and Agencies of the Department of Defense.

SCOPE

1.1 Scope. This specification covers the requirements, quality assurance provisions and packaging for one type of metal container used for 120MM tank ammunition.

APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specification and standards. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

FEDERAL

TT-C-490 - Cleaning and Preparation of Ferrous and Zinc Coated Surfaces for Organic Protective Coatings

MILITARY

MIL-W-12332 - Welding, Resistance, Spot, Seam and Production, for Fabricating Assemblies of Low-Carbon Steel
MIL-A-48078 - Ammunition, Standard Quality

MIL-A-48078 - Ammunition, Standard Quality
Assurance Provisions, General
Specification For

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, U.S. Army Armament Research, Development and Engineering Center, Attn: AMSMC-QA, Dover, New Jersey 07801-5001 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A FSC 8140 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

STANDARDS

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes

MIL-STD-171 - Finishing of Metal and Wood

Surfaces

MIL-STD-1169 - Packaging, Packing and Marking For

Shipment of Inert Ammunition Components

MIL-STD-1261 - Welding Procedures for Constructional Steel

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. Unless otherwise specified, the issues shall be those in effect on the date of the solicitation.

DRAWINGS (see 6.4)

US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER (ARDEC)

9386831 - Container, Ammunition, Metal

(Copies of specifications, standards, and other Government documents required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity).

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted shall be those listed in the issue of the DoDISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS shall be the issue of the nongovernment documents which is current on the date of the solicitation.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM-D412	 Tension Testing of Vulcanized Rubber,
	Standard Method of
ASTM-D2240	- Indentation Hardness of Rubber and Plastics
	by Means of a Durometer, Standard Method of
	Test for
ASTM-D3951	- Commercial Packaging, Standard Practice For
ASTM-E8	- Tension Testing of Metallic Materials, .
	Standard Method of
ASTM-E18	- Rockwell Hardness and Rockwell Superficial

Hardness of Metallic Materials, Test for

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

- 3.1 Materials. Materials and parts shall be in accordance with applicable drawings and specifications.
- 3.2 <u>Components and assemblies</u>. The components and assemblies shall comply with all requirements specified on drawing 9386831 and the drawings and specification referenced thereon.
- 3.3 Welding. The welding shall comply with the requirements of MIL-W-12332 or MIL-STD-1261.
- 3.3.1 Tensile strength (if applicable). The tensile strength of the longitudinal body weld shall be not less than 65 percent of the tensile strength of body material when tested as specified in 4.5.1.
- 3.3.1.1 Tensile strength of body material. The tensile strength of the body material shall be not less than 50,000 pounds per square inch (psi) as specified in 4.5.1.
- 3.4 Painted surface. The painted surfaces of the container shall comply with the requirements of TT-C-490. However, the film thickness and salt spray requirements of TT-C-490 will not apply to the interior surfaces, welded spots and sharp corners of the exterior surface of the container. Bare spots permissable on all bearing surfaces as per drawing 9386831.
- 3.5 Cover assembly. Upon assembly of the cover assembly to the body weldment, the cover assembly shall freely engage and rotate within the body weldment. As the cover assembly is rotated with the "Y" handle in the open position, the "Y" handle shaft ends shall freely engage into the respective bayonet slots of the rim. When the "Y" handle is in the closed position (rotated 180°), the spring clip shall engage and lock the handle in place. When the spring clip is disengaged and the handle rotated to the open position, the cover assembly shall disengage from the body weldment.
- 3.6 First article inspection. This specification contains technical provisions for first article inspection. Requirements for the submission of first article samples by the contractor shall be as specified in the contract.

3.7 Workmanship.

- 3.7.1 Components and assemblies. The components and assemblies shall be regular, smooth, and free from wrinkles, pin holes, cracks, dirt, rough spots, burrs, sharp edges and any other defect that might affect the serviceability, durability, safety and appearance of the container.
- 3.7.2 <u>Paint coating</u>. The paint coating shall be in accordance with applicable drawings and comply with instructions in MIL-STD-171. The finish coat shall cover all required surfaces and be continuous with the possible exception of a few light scratches not exposing the base metal or the primer coat.
- 3.7.3 Parts. All parts shall be free of chips, dirt, grease, rust and foreign material. The cleaning method used shall not be injurious to any of the parts nor shall any of the parts be contaminated by the cleaning agents used.

4. OUALITY ASSURANCE PROVISIONS

- 4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor 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 inspections are deemed necessary to assure supplies and services conform to prescribed requirements. Unless ptherwise specified herein or in the contract, the provisions of MIL-A-48078 shall apply and are hereby made a part of this detail specification.
- 4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.
- 4.2 <u>Classification of inspections</u>. 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 <u>Submission</u>. The contractor shall submit a first article sample as designated by the Contracting Officer for evaluation in accordance with provisions of 4.3.2. The first article sample shall consist of five (5) painted metal containers, five (5) painted cover assemblies, five (5) unpainted cover assemblies, and ten (10) each of every subassembly and component (unpainted).
- 4.3.2 <u>Inspections to be performed</u>. See MIL-A-48078 and Table I specified herein.
 - 4.3.3 Rejection. See MIL-A-48078.

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

PARAGRAPH	Assemblies and Components		SHEET OF		See Below NEXT HIGHER ASSENBLY
CATEGORY	EXAMINATION OR TEST	NO. OF Sample Units	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHO
	Metal Containers, painted - (Drawing 9386831) a. Examination for defects b. Air pressure	5 5		3.2 3.2	4.4.2.20 4.5.7.2
	Body Weldment, unpainted - (Drawing 9386830) a. Examination for defects b. Air pressure c. Weld rim to body (see Note)	10 5 5		3.2 3.2 3.2	4.4.2.19 4.5.7.1 4.5.2
,	Cover Assembly, unpainted - (Drawing 9386824) a. Examination for defects b. Air pressure	5		3.2	4.4.2.12 4.5.7.1
	Cover assembly, painted - (Drawing 9386824) Examination for defects	5	ı	3.2	4.4.2.13
	Body - (Drawing 9386828) a. Examination for defects b. Tensile strength (see Note)	10 5		3.2	4.4.2.17 4.5.1

The weld security inspections, body tensile strength, spring tests and gasket tensile stress test shall be performed after the other inspections have been performed on the applicable samples.

Replaces DRSMC-QA (D) Form 160, 1 Aug 83, which may not be used.

TABLE I. First article inspection

CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH -	Assemblies and Components				MIL-C-70478 (AR)	
			SHEET	2 or 2	See Below NEXY HIGHER ASSEMBLY	
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METH	
	Spring, unpainted - (Drawing 9386818)				<u> </u>	
	a. Examination for defects	10	:	3.2	4.4.2.2	
	b. Embrittlement (see Note)	3		3.2	4.5.3	
	c. Hardness (see Note)	3		3.2	4.5.4	
	<u>Gasket</u> - (Drawing 9386829)			1		
	a. Examination for defects	10		3.2	4.4.2.10	
	b. Hardness	3		3.2	+	
	c. Tensile stress (see Note)	3		3.2	4.5.6	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			3.2	4.5.5	
	Yoke assembly, painted-(Dwg. 12561227)	10		3.2	4.4.2.21	
	Domoining sub 121					
	Remaining subassemblies and components					
	Examination for defects	10		3.2	Applicable sub-	
		1			paragraph of 4.4.2	
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The weld security inspections, body tensile strength, spring tests and gasket tensile stress test shall be performed after the other inspections have been performed on the applicable samples.

4.4 Quality conformance inspection.

- 4.4.1 <u>Inspection lot formation</u>. Inspection lots shall comply with the lot formation provisions of MIL-A-48078. In addition, inspection lots of containers shall contain material from lots with the same interfix number from one manufacturer.
- 4.4.2 Examination See MIL-A-48078. Unless otherwise specified in the Classification of Defects and Test Tables, sampling plans and procedures for major and minor defects shall be in accordance with MIL-STD-105, Inspection Level II.

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

Clamp EXAMINATION OR TEST	NO. OF SAMPLE UNITS	SHEET	1 1 or	MEXT HIGHER ASSEMBLY
	NO. OF	404		
	SAMPLE			9386820
	UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHO
None defined				
True position of holes		0.40%	3.2	Gage
Thickness Diameter of hole (two places) Location of holes Evidence of poor workmanship	(a)	0.65% 0.65% 0.65%	3.2 3.2 3.7	Gage Gage Visual
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_	Thickness Diameter of hole (two places) Location of holes	Thickness Diameter of hole (two places) Location of holes Evidence of poor workmanship	Thickness Diameter of hole (two places) Location of holes Evidence of poor workmanship (a) 0.65% 0.65% 0.65%	Thickness Diameter of hole (two places) Location of holes Evidence of poor workmanship (a) 0.65% 3.2 0.65% 3.2 0.65% 3.7

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Replaces DRSMC-QA (D) Form 160, 1 Aug 83, which may not be used.

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

PARAGRAPH 4.4.2.2	Spring			1 1	PRAWING NUMBER 9386818 NEXT HIGHER ASSEMBLY 9386820	
				OF		
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD	
Critical	None defined					
Major 101 102 103 104 Minor 201 202 203 204 205	Spring embrittlement Hardness True position of holes Radius of loop Diameter of hole two places Location of holes Thickness Length from center of holes to lower edge of bend Evidence of poor workmanship	5 5	0.40% 0.40% 0.65% 0.65% 0.65%	3.2 3.2 3.2 3.2 3.2 3.2 3.7	4.5.3 4.5.4 Gage Gage Gage Gage Visual	
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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

PARAGRAPH 4.4.2.3	Support, Shaft		SHEET	l _{or} 1	PRAWING NUMBER 9386819 NEXT HIGHER ASSEMBLY	
CATEGORY	EXAMINATION OR YEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386820 PARAGRAPH REFERENCE /INSPECTION METHO	
Critical	None defined					
Major 101 102 103 104 105 106 107 108 109 110	Diameter of large hole Diameter of small hole True position of large hole Location of large hole from rear surface True position of small hole Distance between shaft support uprights True position of spring holes Location of spring holes Wall thickness Distance between center line of large hole and slot, and the tab used to assemble the spring and clamp		0.40% 0.40% 0.40% 0.40% 0.40% 0.40% 0.40%	3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	Gage Gage Gage Gage Gage Gage Gage Gage	
Minor 201 202 203	Diameter of spring holes Radius not present on edges of tab Evidence of poor workmanship		0.65% 0.65% 0.65%	3.2 3.2 3.7	Gage Visual Visual	

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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

.4.2.4	Shaft Support Assembly	naft Support Assembly		1 or 1	DRAWING NUMBER 9386820 REXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR YEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386822 PARAGRAPH REFERENCE /INSPECTION METHOR
ritical	None defined			•	
lajor	None defined		is a second		
1 <u>inor</u> 201 202 203	Component missing Rivet missing or improperly applied Evidence of poor workmanship		0.65% 0.65% 0.65%	3.2 3.2 3.7	Visual Visual Visual
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QUALITY CONFORMANCE INSPECTION

CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE				MIL-C-70478 (AR)	
4.4.2.5	Handle		SHEET	lor 1	DRAWING NUMBER 9386823 NEXT HIGHER ASSEMBLY	
CATEGORY	EXAMINATION OR TEST	NO. OF Sample	AQL OR	REQUIREMENT	9386824 PARAGRAPH REFERENCE	
		UNITS	100%	PARAGRAPH	/INSPECTION METH	
Critical	None defined					
Major 101 102 103	True position of small hole Location of shaft hexhole, 2 places		0.40%	3.2	Gage	
103 104 Minor	Distance from center of shaft hexholes to nearer edge of spring slot Width of spring slot		0.40%	3.2 3.2	Gage Gage Gage	
201 202 203 204	Diameter of small hole Overall length of tabs Width of tab Width of shaft hex hole (three readings		0.65% 0.65% 0.65%	3.2 3.2 3.2	Gage Gage Gage	
205 206 207	60° apart), 2 places Largest width of handle Wall thickness Evidence of poor workmanship		0.65% 0.65% 0.65% 0.65%	3.2 3.2 3.2 3.7	Gage Gage Gage Visual	
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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

PARAGRAPH 4.4.2.6	Shaft		SHEET ¹ OF		9386816 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386824 PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
Major 101 102 103 104 105	Length of hexagon segment of shaft Large diameter (two places) Small diameter (two places) Total length of large diameters and hexagon segments Small diameter segment not tangent to large diameter segment and side of hexagon segment Length of large diameter segment (two places)		0.40% 0.40% 0.40% 0.40% 0.40%	3.2 3.2 3.2 3.2 3.2	Gage Gage Gage Visual Gage
Minor 201 202 203	Width across flats of hexagon segment (three readings, 60° apart) Length of small diameter segment (two places) Evidence of poor workmanship		0.65% 0.65% 0.65%	3.2 3.2 3.7	Gage Gage Visual

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Paragraph	TITLE		& TESTS	-	MIL-C-70478 (AR)
4.4.2.7	Washer			3 7	9386814
			SHEET	1 of 1	HEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF	AQL OR	BEOLUBENS	9386824
· · -		UNITS	100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHO
<u>Critical</u>	None defined				
Major 101	Tanilla di			1	
101	Inside diameter Height		0.40% 0.40%	3.2 3.2	Gage
Minor	-		0.408	3.2	Gage
201	Outside diameter		0.65%	3.2	Gage
202	Evidence of poor workmanship		0.65%	3.7	Visual
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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

					
PARAGRAPH 4.4.2.8	Retainer, Washer		SHEET $^{ m l}$ OF $^{ m l}$		9386813 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386824 PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
Major 101	Material certification	(a)		3.2	Certification
Minor 201 202 203 204	Diameter of hole Inside diameter Height of retainer Evidence of poor workmanship		0.65% 0.65% 0.65% 0.65%	3.2 3.2 3.2 3.7	Gage Gage Gage Visual
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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

ARAGRAPH	TITLE				DRAWING NUMBER
.4.2.9	Cover			lor 1	9386821
			SHEET	-07 1	HEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR YEST	NO. OF SAMPLE	AQL		9386822
	Extendion on resi	UNITS	OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION MET
ritical	None defined				
lajor					,
101	Outside diameter		0.40%	3.2	Gage
102	Wall thickness		0.40%	3.2	Gage
103	Depth of groove		0.40%	3.2	Gage
104	Width of groove		0.40%	3.2	Gage
105	Depth from rim to inside of cover base		0.40%	3.2	Gage
106	Height of threads, minimum		0.40%	3.2	Gage
107	Location of air test hole with outside				
108	diameter		0.40%	3.2	Gage
108	Flatness of bottom surface inside				
į	annular ring and surrounding air				_
109	test hole		0.40%	3.2	Gage
109	Height of annular ring around air test hole		0.40%	3.2	Gage
linor					
201	Evidence of poor workmanship		0.65%	3.7	Visual
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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

4.4.2.10	Gasket		SHEET	1 _{OF} 1	DRAWING NUMBER 9386829 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386824. PARAGRAPH REFERENCE /INSPECTION METHO
Critical	None defined				
Major 101 102 103 104 105 106 107 108 109 Minor 201	Material certification Tensile stress Hardness Inside diameter, maximum Large width Middle width Height of rectangular cross section Misalignment of joint Diameter of hole in cross section Evidence of poor workmanship	5 a 5	0.40% 0.40% 0.40% 0.40% 0.65%	3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.7	Certification 4.5.5 4.5.6/ Gage Gage Gage Gage Gage Gage Visual
notes (a)	One plaque (4 specimens) at start and en	đ of e	ach shif	t.	

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

PARAGRAPH 4.4.2.11	Cover Weldment	SHEET		lor 1	DRAWING HUMBER 9386822 NEXT HIGHER ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386824 PARAGRAPH REFERENCE /INSPECTION METHI
Critical	None defined				
<u>Major</u>	None defined				
1inor 201 202 203	Weld missing, incomplete or visually inadequate Location of shaft support slot with respect to cover air hole Evidence of poor workmanship		0.65% 0.65% 0.65%	3.2 3.2 3.7	Visual/Manual Gage Visual
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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

4.4.2.12	Cover Assembly, Prior to Painting	, Prior to Painting		lor 1	9386824 NEXT HIGHER ASSEMBLY	
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386831 PARAGRAPH REFERENCE /INSPECTION METHO	
Critical	None defined	1				
Major 101	Air pressure Rotating of shaft inadequate after		100%	3.2	4.5.7.1/Dwg. 9386824	
102	crimping		0.40%	3.2	Manual	
103	Distance from inside cover rim to top of shaft		0.40%	3.2	Gage	
Minor 201	Component missing or inadequately assembled		0.65%	3.2	Visual Visual	
202	Evidence of poor workmanship		0.65%	3.7	Visual	
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Replaces DRSMC-QA (D) Form 160, 1 Aug 83, which may not be used.

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MIL-C-70478 (AR)

PARAGRAPH	TITLE			MIL-C-/U478 (AR)	
4.4.2.13	Cover assembly, after painting		SHEET	197 1	9386824
					NEXT HIGHER ASSENBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE	AQL OR	REQUIREMENT	9386831 PARAGRAPH REFERENCE
		UNITS	100%	PARAGRAPH	/INSPECTION METHO
Critical	None defined				
Major 101	Gasket in properly bonded to cover.		0.40%		
102	After painting, the shaft shall freely		0.408	3.2	Visual
103	rotate Primer thickness		0.40%	3.2	Manual
104	Paint thickness		0.40% 0.40%	3.2 3.2	Gage Gage
Minor					
201	Evidence of poor workmanship		0.65%	3.7	Visual
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CLASSIFICATION OF DEFECTS & TESTS

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TITLE				DRAWING HUMBER	
Rim		SHEET	1 _{OF} 1	9386827 NEXT HIGHER ASSEMBLY	
EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386830 PARAGRAPH REFERENCE /INSPECTION METHOD	
None defined					
Length of larger slot on side of rim Location of larger slot from inside	į	0.40%	3.2	Gage	
Location of smaller slot from inside			3.2	Gage Gage	
Location of bayonet slot, 4 places		0.40%	3.2	Gage	
2 places (Dim. A) Inside dimension across corner,		1		Gage Gage	
Width of larger slot		0.40%	3.2	Gage Gage Gage	
Bayonet locking edge radius (two places)	0.40%	3.2	Gage	
Depth from edge of rim to inside flat Length of small slot on side of rim Width of smaller slot Drainage hole missing Evidence of poor workmanship		0.65% 0.65% 0.65 0.65% 0.65%	3.2 3.2 3.2 3.2 3.7	Gage Gage Gage Visual Visual	
	Length of larger slot on side of rim Location of larger slot from inside flat Location of smaller slot from inside flat Location of bayonet slot, 4 places Inside dimension across flats, 2 places (Dim. A) Inside dimension across corner, 2 places (Dim. D) Width of larger slot Inside diameter of rim (Dim. E) Bayonet locking edge radius (two places Depth from edge of rim to inside flat Length of small slot on side of rim Width of smaller slot Drainage hole missing	None defined Length of larger slot on side of rim Location of larger slot from inside flat Location of smaller slot from inside flat Location of bayonet slot, 4 places Inside dimension across flats, 2 places (Dim. A) Inside dimension across corner, 2 places (Dim. D) Width of larger slot Inside diameter of rim (Dim. E) Bayonet locking edge radius (two places) Depth from edge of rim to inside flat Length of small slot on side of rim Width of smaller slot Drainage hole missing	None defined Length of larger slot on side of rim Location of larger slot from inside flat Location of smaller slot from inside flat Location of bayonet slot, 4 places Inside dimension across flats, 2 places (Dim. A) Inside dimension across corner, 2 places (Dim. D) Width of larger slot Inside diameter of rim (Dim. E) Bayonet locking edge radius (two places) Depth from edge of rim to inside flat Length of small slot on side of rim Width of smaller slot Drainage hole missing	None defined Length of larger slot on side of rim Location of larger slot from inside flat Location of bayonet slot, 4 places Inside dimension across flats, 2 places (Dim. A) Inside dimension across corner, 2 places (Dim. D) Width of larger slot Inside diameter of rim (Dim. E) Bayonet locking edge radius (two places) Depth from edge of rim to inside flat Length of small slot on side of rim (Dim. E) Drainage hole missing EXAMPLE 10R REQUIREMENT PRARAGRAPH 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2 0.40% 3.2	

CLASSIFICATION OF DEFECTS & TESTS

PARAGRAPH	TITLE				MIL-C-70478 (AR)	
4.4.2.15	Ring	Ring su		1 of 1	DRAWING NUMBER 9386826	
					NEXT HIGHER ASSEMBLY 9386830	
CATEGORY	EXAMINATION OR TEST	NO. OF	AQL OR			
		UNITS	100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD	
Critical	None defined					
<u>Major</u>						
101 102	Length of larger slot on side of ring Location of larger slot from inside		0.40%	3.2	Gage	
103	flat Location of smaller slot from inside		0.40%	3.2	Gage	
104	flat Inside dimensions across flats,		0.40%	3.2	Gage	
105	2 places (Dim. A) Width of larger slot		0.40%	3.2	Gage	
106	Opening of container interlocking grip		0.40%	3.2	Gage .	
107	Depth of container interlocking grip		0.40% 0.40%	3.2 3.2	Gage Gage	
<u>Minor</u>		ļ i		1		
201	Distance from edge of ring to outside					
202	flat		0.65%	3.2	Gage	
203	Length of smaller slot on side of ring Width of smaller slot		0.65%	3.2	Gage	
204	Location of container interlocking cutouts		0.65%	3.2	Gage	
205	Width of interlocking cutouts	<u> </u>	0.65%	3.2	Gage	
206	Depth of interlocking cutouts		0.65%	3.2	Gage	
207	Drainage hole missing		0.65% 0.65%	3.2 3.2	Gage	
208	Evidence of poor workmanship		0.65%	3.2	Visual Visual	
					.	
HOTES:						

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CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

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PARAGRAPH 4.4.2.16	Bottom	SHEET		SHEET ¹ OF		1 _{or} 1	9386825 NEXT HIGHER ASSEMBLY 9386830
CATEGORY	EXAMINATION OR TEST	NO. OF Sample Units	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHO		
Critical	None defined						
<u>Major</u> 101 102 103	Material thickness Hole location Hole diameter		0.40% 0.40% 0.40%	3.2 3.2 3.2	Gage Gage Gage		
Minor 201 202	Height of lip, minimum Evidence of poor workmanship		0.65% 0.65%	3.2	Gage Visual		
NOTES:		<u>I</u> ,	 				

Replaces DRSMC-QA (D) Form 160, 1 Aug 83, which may not be used.

AMSMC Form 1570, 1 Feb 85

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CLASSIFICATION OF DEFECTS & TESTS

4.4.2.17 Body SHEET 1 of 1 NO. OF AGL 93 ⁸⁶⁸²⁸ NEXT HIGHER A 9386830	478 (AR)	MIL-C-7047				TITLE	PARAGRAPH
Critical None defined Major 101 Tensile strength of weld 102 Wall thickness 103 Inside diameter, minimum 104 Length, minimum 105 Flatness of body Minor No. of SAMPLE UNITS (a) (a) (b) (a) (a) (a) (b) (b)	9386828 NEXT HIGHER ASSEMBLY		SHEET $1_{ extsf{OF}}$ 1			Body	4.4.2.17
Major Tensile strength of weld (a) 3.3.1 4.5.1 102 Wall thickness 0.40% 3.2 Gage 103 Inside diameter, minimum 0.40% 3.2 Gage 104 Length, minimum 0.40% 3.2 Gage 105 Flatness of body 0.40% 3.2 Gage Minor Gage 0.40% 3.2 Gage	EFERENCE /INSPECTION METHOD	PARAGRAPH REFER	REQUIREMENT PARAGRAPH	OR	SAMPLE	EXAMINATION OR TEST	CATEGORY
102 Wall thickness 103 Inside diameter, minimum 104 Length, minimum 105 Flatness of body Minor Wall thickness 0.40% 3.2 Gage Gage 0.40% 3.2 Gage Gage 0.40% 3.2 Gage Gage						None defined	<u>Critical</u>
		Gage Gage Gage Gage	3.2 3.2 3.2 3.2	0.40% 0.40% 0.40%	(a)	Wall thickness Inside diameter, minimum Length, minimum Flatness of body	102 103 104 105 Minor
NOTES.					<u></u>		
(a) Three coupons per shift.						(a) Three coupons per shift.	

CLASSIFICATION OF DEFECTS & TESTS

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	MIL-C-70478(AR)					
PARAGRAPH 4.4.2.18	Plug, Stacking		SHEET	1 or 1	DRAWING NUMBER 9386837 HEXT HIGHEN ASSENDLY	
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386830 PARAGRAPH REFERENCE /INSPECTION METH	
Critical	None defined					
Major 101 102 Minor 201 202 203	Length of plug Width of plug Length of indexing projection Width of indexing projection Evidence of poor workmanship		0.40% 0.40% 0.65% 0.65%	3.2 3.2 3.2 3.7	Gage Gage Gage Gage Visual	
NOTES:		 .	I	<u> </u>	<u></u>	

AMSMC Form 1570, 1 Feb 85

Replaces DRSMC-QA (D) Form 160, 1 Aug 83, which may not be used.

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

4.4.2.19	Body Weldment, Prior to Painting		SHEET	1 of 1	DRAWING NUMBER 9386830 MEXT HIGHEN ASSEMBLY	
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	9386831 PARAGRAPH REFERENCE INSPECTION METHO	
Critical	None defined					
Major						
101	Air pressure	<u> </u>	100%	3.2	4.5.7.1	
102 103	Weld of rim to body	(a)		3.2	4.5.2	
(0)	True position of holes of ring, rim and stacking plug		2 11 2 2			
104	Location of hole in rim relative to holes in inside rings and stacking		0.40%	3.2	Gage	
105	plugs Location of hole in rim relative to hole in outside ring and stacking		0.40%	3.2	Gage	
106	plug Perpendicularity of ring and rims		0.40%	3.2	Gage	
107	with Datum-A Distance from end of body to top of rim	!	0.40%	3.2	Gage	
108	bayonet slot (four places) Minimum shear load between stacking		0.40%	3.2	Gage	
	plug and body		0.40%	3.2	Gage	
<u>Minor</u>					}	
201	Any weld of ring, rim or bottom to body missing, incomplete or visually inadequate		0.65%	2 2		
202	Evidence of poor workmanship		0.65%	3.2 3.7	Visual Visual	
HOTES:		1		<u> </u>	<u> </u>	

(a) Three coupons per shift.

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

PARAGRAPH 4.4.2.20	Body Weldment, after painting		SHEET 1 OF 1		DRAWING NUMBER 9386830 NEXT HIGHER ASSEMBLY 9386831	
CATEGORY	EXAMINATION OR TEST	NO. OF Sample Units	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD	
Critical	None defined					
Major 101 102 103	Primer thickness Paint thickness Marking		0.40% 0.40% 0.40%	3.2 3.2 3.2	Gage Gage 5.3	
Minor 201	Evidence of poor workmanship		0.65%	3.7	Visual	
·						
	·					
HOTER:				<u> </u>		

Replaces DRSMC-QA (D) Form 160, 1 Aug 83, which may not be used.

AMSMC Form 1570, 1 Feb 85

PARAGRAPH	TITLE		G 15313		MIL-C-70478 (AR)
4.4.2.21	Container, Ammunition, Metal			1 0 * 1	PRAYING NUMBER 9386831 NEXT HIGHER ASSEMBLY
CATEGORY		NO. OF	AQL	T	9386832 or 9386833
	EXAMINATION OR TEST		OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHO
Critical	None defined				
<u>Major</u> 101 102	Cover assembly test Air pressure test (with yoke assembly		0.40%	3.5	Visual/Manual/4.5.8
103	in place)	l , ,	0.40%	3.2	4.5.7.2
103	Screw torque test (top and bottom)	(a)	0.40%	3.2	4.5.9
Minor 201 202 203	Missing, loose or damaged components Protective finish damaged, bare spots exposing metal, etc. Evidence of poor workmanship		0.65% 0.65% 0.65%	3.2 3.2 3.7	Visual Visual Visual
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⁽a) The screw torque test shall be performed after the air pressure test has been performed and the screw has been reassembled.

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-70478 (AR)

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PARAGRAPH 4.4.2.22	Yoke assembly, after painting		SHEET ¹ OF ¹		DRAWING NUMBER 12561227 NEXT HIGHER ASSEMBLY 9386831
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD
Critical	None defined				
<u>Major</u> 101 102	Location of the weldnut Yoke stops inside the maximum base diameter		0.40%	3.2	Gage Gage
Minor 201 202 203 204	Presence of spot welds on yoke stop Presence of spot weld on weldment Presence of improper threads in weldment Evidence of poor workmanship		0.65% 0.65% 0.65 0.65%	3.2 3.2 3.2 3.7	Visual Visual Gage/Visual Visual
nores:					

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- 4.4.3 <u>Testing</u>. Testing is described in the First article and Quality conformance inspection tables.
- 4.4.3.1 Tensile strength (see 3.3.1), Major Defect. Five (5) bodies shall be randomly selected for this test. Four specimens, approximately equally spaced along the axis, shall be taken from each body at right angles to the weld. If one specimen of a sample fails to comply with the requirement, that sample shall be classed defective. If two or more samples are classed defective, the lot shall be rejected.
- 4.4.3.2 Tensile strength of body material (see 3.3.1.1) Major defect. Five (5) bodies shall be randomly selected for this test. From each body, three specimens shall be selected at random for determination of body material tensile strength. If one specimen fails to comply with 3.3.1.1, that sample body shall be classed defective. If two or more sample bodies are classed defective, the lot shall be rejected.
- 4.4.3.3 Weld of rim to body (see 9386830), Major Defect. Five (5) body assemblies shall be selected for this test. If any sample fails to comply with the requirement, the lot shall be rejected.
- 4.4.3.4 Spring embrittlement (see dwg. 9386818), Major Defect. Five (5) springs shall be randomly selected from each heat treatment lot for this test. If any spring fails to meet the requirement, the heat treatment lot shall be rejected.
- 4.4.3.5 <u>Hardness of spring</u> (see dwg. 9386818), Major Defect. Five (5) springs shall be randomly selected from each heat treatment lot for this test. If any spring fails to meet the requirement, the heat treatment lot shall be rejected.
- 4.4.3.6 Tensile stress of gasket (see dwg. 9386829), Major Defect. Five (5) gaskets shall be randomly selected from each lot for this test. If any gasket fails to meet the requirement, the lot shall be rejected.
- 4.4.3.7 <u>Hardness of gasket</u> (see dwg. 9386829), Major Defect. Five (5) gaskets shall be randomly selected from each lot for this test. If any gasket fails to meet the requirement, the lot shall be rejected.

4.4.3.8 Air pressure.

4.4.3.8.1 Air pressure of unpainted cover assembly (see dwg. 9386824), Major Defect. The cover assemblies shall be checked 100 percent. If any cover assembly fails to comply with the requirement, the cover assembly shall be rejected.

- 4.4.3.8.2 Air pressure of unpainted body weldment (see dwg. 9386830), Major Defect. The body weldments shall be checked 100 percent. If the body weldment fails to comply with the requirement, the body weldment shall be rejected.
- 4.4.3.8.3 <u>Air pressure of painted metal container</u> (see dwg. 9386831), Major Defect. The containers shall be sampled in accordance with MIL-STD-105, with an AQL of 0.40 percent.
- 4.4.3.9 Cover assembly test (see dwg. 9386831). The cover assemblies shall be sampled in accordance with MIL-STD-105, with an AQL of 0.40 percent.
- 4.4.4 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 6.5 herein.
 - 4.5 Methods of inspection. (See 6.5).
- 4.5.1 Tensile strength. The tensile strength shall be determined in accordance with ASTM-E8.
- 4.5.2 Weld of rim to body. The test shall be performed in accordance with ASTM-E8.
- 4.5.3 Spring embrittlement. The spring shall be repeatedly stretched with increasing loads until it does not return to its original free height. That point shall indicate minimum distortion. Any unit which fractures prior to extension to minimum distortion shall be classed defective.
- 4.5.4 <u>Hardness of spring</u>. The hardness of the spring shall be determined in accordance with ASTM-El8.
- 4.5.5 <u>Tensile stress of gasket</u>. The tensile stress shall be determined in accordance with ASTM-D412.
- 4.5.6 Hardness of gasket. The hardenss test shall be performed on the specimens. This test shall be performed in accordance with ASTM Method D-2240. Shore A hardness readings shall be taken on the ends of each specimen. Any specimen failing the applicable requirements shall be cause for rejection of that lot of material.

4.5.7 Air pressure test

4.5.7.1 Air pressure of unpainted cover assembly and unpainted body weldment. Subject the cover assembly and body weldment to the internal air pressure, specified in the applicable container assembly drawing, for one of the test times specified. For the cover assembly, apply the pressure when the cover assembly (equipped

with a gasket) is assembled to a master body assembly (or its equivalent). For the body weldment, apply the pressure when the body weldment is assembled to a master cover (or equivalent) and gasket. The master cover and the master body assembly shall be provided with satisfactory means for applying and maintaining the pressure during the test and for showing evidence of leakage. Observation shall be made for a pressure drop exceeding the requirement for the corresponding test time (as specified in the applicable drawing). A cover assembly or body weldment which exceeds the requirement, shall be classed defective.

- 4.5.7.1.1 Alternate air pressure test for unpainted cover assembly and unpainted body assembly (Water Method). Subject the cover assembly and container body while under water, to the specified internal air pressure for the test time specified. For the cover assembly, apply the pressure when the cover assembly is assembled to a master body assembly (or its equivalent) equipped with a gasket. For the body assembly, apply the pressure when the body assembly is assembled to a master cover (or equivalent) and gasket. The master cover and master body assembly shall be provided with satisfactory means for applying and maintaining the pressure during the test and for showing evidence of leakage. No bubbles (other than surface bubbles) shall be permitted. A cover assembly or body assembly which does not meet the requirements shall be classed defective.
- 4.5.7.2 Air pressure of painted metal container. Subject the metal container to the internal air pressure, specified in the applicable metal container drawing, for one of the test times specified. Observation shall be made for a pressure drop exceeding the requirement for the corresponding test time (as specified in the applicable drawing). A metal container, which exceeds the requirement shall be classed defective.
- 4.5.8 Cover assembly test. Upon assembly of the body and cover, the cover shall freely engage and rotate within the body. The Y-handle shall engage into the respective bayonet slots of the rim without interference when in the clamping position. The Y-handle when disengaged and in the open position shall disengage the cover from the body.
- 4.5.9 Screw torque test. The minimum applicable torque shall be applied to the screw. Any evidence of motion of the screw before reaching the minimum acceptable torque shall be cause for rejection of the container assembly being tested.

- 5. PACKAGING
- 5.1 Preservation and packaging. None required.
- 5.2 Packing.
- 5.2.1 <u>Level A</u>. The metal container shall be packed in accordance with Level A of MIL-STD-1169.
- 5.2.2 <u>Level B</u>. The metal container shall be packed in accordance with Level B of MIL-STD-1169.
- 5.2.3 Commercial. The metal container shall be packed in accordance with ASTM-D-3951.
 - 5.3 Marking.
- 5.3.1 <u>Level A</u>. The metal container shall be marked in accordance with Level A of MIL-STD-1169.
- 5.3.2 <u>Level B</u>. The metal container shall be marked in accordance with Level B of MIL-STD-1169.
- 5.3.3 Commercial. The metal container shall be marked in accordance with ASTM-D-3951 and the following additional instructions. Commercial shipping tags attached with wire shall show: Item name and model number, part number and revision, contract number, lot number and data, name and address of manufacturer. If components and assemblies are bundled, boxed or palletized, the gross weight and quantity shall be included. The above information may be placed on pallets or boxes by labeling or stenciling.
- 5.4 Shipping. When containers from more than one lot are shipped at one time, each lot shall be kept separate and the division between lots clearly indicated to prevent mixing of lots in transit.
 - 6. NOTES
- 6.1 <u>Intended use</u>. The metal container is intended for use as the outer tactical shipping and storage packaging for the 120MM Tank Cartridge.
 - 6.2 Ordering data. See MIL-A-48078.
 - 6.3 Definition of packaging and packing levels.
- 6.3.1 <u>Level A</u>. Full Military protection, for unrestricted (OCONUS) shipment and storage

- 6.3.2 Level B. Limited Military protection for limited storage and (OCONUS) shipment.
- 6.3.3 <u>Level C</u>. For interplant (CONUS) shipment and very limited storage.
- 6.4 <u>Drawings</u>. Drawings listed in Section 2 of this specification under the heading US Army Armament Research, Development and Engineering Center (ARDEC) may also include drawings prepared by, and identified as US Army Armament Research and Development Command (ARRADCOM), US Army Armemant Research and Development Center (ARDC), Edgewood Arsenal, Frankford Arsenal, Rock Island Arsenal or Picatinny Arsenal drawings. Technical data originally prepared by these activities is now under the Cognizance of ARDEC.
- 6.5 Submission of inspection equipment for design approvals See MIL-A-48078. Submit designs as required to: Commander, US Army Armament Research, Development and Engineering Center, ATTN: AMSMC-OAT-I(D), Dover, New Jersey 07801-5001.
- 6.6 Approval of equivalent test methods. Prior approval of the Contracting Officer is required for use of equivalent test methods. A description of the proposed method should be submitted through the Contracting Officer to: Commander, US Army Armament Research, Development and Engineering Center, ATTN: AMSMC-QAT-A(D), Dover, New Jersey 07801-5001. This description should include but not be limited to the accuracy and precision of the method, test data demonstrating the accuracy and precision and drawings of any special equipment required.
 - 6.7 Subject term (key words) listings.

Ammunition Body Cannon Cartridge Container Cover Metal Tank

Custodian: Army-AR Preparing activity: Army-AR

(Project 8140-A639)

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		USER			
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