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MIL-S-50312 (MU) 1 October 1969

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## MILITARY SPECIFICATION

## SHIPPING AND STORAGE CONTAINER, CARTRIDGE, 30MM, XM592

#### 1. SCOPE

1.1 This specification covers one model steel container for shipping and storing ammunition.

# 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.

#### SPECIFICATIONS

Federal

TT-C-00490	- Cleaning Methods and Pretreatment of Ferrous
	Surfaces for Organic Costings

#### Military

MIL-L-19896	- Labels and Label Tape,	Pressure Sensitive
	Adhesive, Paper, Water	

#### STANDARDS

#### Federal

Federal Test Method Standard No. 141 - Paint, Varnish, Lacquer, and Related Materials; Methods of Inspection, Sampling and Testing

#### Military

MIL-STD-105	- Sampling Procedures and Tables for Inspection
	by Attributes .
MIL-STD-109	- Quality Assurance Terms and Definitions
MIL-STD-406	- Visual Inspection Standards for Tern Plate Cans
	and Steel Boxes Used in Small Arms Ammunition
	Packaging.

FSC 8140

Military (Cont'd)	
MIL-STD-414	- Sampling Procedures and Tables for Inspection by Variables for Percent Defective
MIL-STD-1235	- Single and Multilevel Continuous Sampling Procedures and Tables for Inspection by Attributes
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DRAWINGS

Munitions Command

F10542565	- Shipping and Storage Container, Cartridge,
F10542566	30MM: XM592 - Body Assembly
F10542569	- Cover Assembly
IEL10542565	- Index of Inspection Equipment Lists for: Shipping and Storage Container, Cartridge, 30MM: XM592

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

#### 3. REQUIREMENTS

3.1 <u>General.</u>- The container shall comply with the requirements of Drawing F10542565, referenced specifications, and other requirements specified herein.

## 3.2 Protective coating.

3.2.1 <u>Phosphate.-</u> The cleaning method and pretreatment process used shall comply with the requirements of Drawings F10542566 and F10542569. The phosphate coating shall comply with the requirements of TT-C-00490 for appearance and minimum weight, as applicable to the type of phosphate used.

3.2.2 Paint. The paint coating shall comply with the requirements of Drawings F10542566 and F10542569. In addition, the coating shall be smooth, unbroken and free of blisters, runs, thin spots and foreign matter. Adhesion of the paint to the pretreated surfaces shall comply with applicable requirements of TT-C-00490.

3.2.3 <u>Corrosion resistance</u>.- The painted container shall show no visible evidence of paint blistering, creepage (loss of adhesion), or corrosion of basis metal in excess of 1/8 inch from a test score, or more than five scattered blisters or corrosion spots having individual diameters greater than 3/16 inch in any 4 X 12 inch flat area, excluding score marks, from exposure to a 5% solution of salt spray for 80 hours. Downloaded from http://www.everyspec.com

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## 3.3 Concavity and convexity.

3.3.1 Cover assembly.- The cover assembly shall meet the requirements of Dwg. F10542569 for flatness.

3.3.2 <u>Body assembly.</u> The top edges of the body assembly shall meet the requirements of Dwg. F10542566 for straightness.

3.4 <u>Gasket compression</u>.- The gasket compression of the container shall be as specified by Dwg. F10542565.

3.5 <u>Airtightness</u>.- The assembled container shall withstand, without leakage, an air pressure differential of three pounds per square inch (psi).

3.6 Functioning.-

3.6.1 <u>Cover assembly.</u> The locking hardware shall be operable manually. The cover assembly shall be removable manually without the use of undue force. The gasket shall remain secure in the correct position within the cover upon removal of the cover assembly. The gasket shall not stick to or be cut or split by contact against the top edge of the body assembly.

3.6.2 <u>Hasp and latch.</u> Mating parts of the body hasp and latches shall engage without requiring deformation of any container part, and the latches shall close and open freely. When closed the latches of the assembled container shall remain closed until manually opened.

3.6.3 <u>Elevated temperature storage</u>.- Following storage of the container in its closed position at an air temperature of 163 degrees Fahrenheit (F) minimum for a period of 24 hours minimum and subsequent return to ambient temperature, the container shall function as required in 3.6.1 and 3.6.2.

3.7 Weld security.

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3.7.1 Hasp assembly.- Each hasp of the body assembly shall comply with the security requirement of Drawing F10542566 without permanent deformation or failure of a weld.

3.7.2 <u>Handle assembly.</u> The handles of the body assembly shall withstand a pull of 600 pounds without permanent deformation of a component or failure of a weld.

3.7.3 Latch assembly.- The latch assemblies of the cover assembly shall comply with the security requirements of Drawing F10542569 without breakage or permanent deformation of any of the components or welds.

3.8 Workmanship.- The requirements for workmanship are as specified by applicable drawings, referenced specifications and the following:

3.8.1 Processing defects. - The container shall be free of cracks, splits, sharp edges, slivers, burrs, severe dents, cuts and scratches, missing or defective welds and components and other forms of substandard workmanship.

3.8.2 <u>Cleanliness</u>.- The painted container shall be free of all foreign matter.

4. QUALITY ASSURANCE PROVISIONS

4.1 <u>Responsibility for inspection</u>.- 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 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.

4.1.1 Quality assurance terms and definitions.- Reference shall be made to MIL-STD-109 for definition of quality assurance terms.

4.2 First article sample.

4.2.1 <u>Initial production sample</u>.- At the beginning of regular production, a sample representing the approved process shall be submitted in accordance with contract requirements and shall consist of 10 painted containers and 2 sets of unassembled component parts. The sample shall be manufactured using the same materials, equipment processes and procedures as will be used in regular production.

4.2.1.1 <u>Examination and test</u>.- After inspection and provisional acceptance at source, as directed by the contracting officer, the sample will be inspected for all requirements of the drawings and specifications at a government informatory or such other facility specified by the contract.

4.2.1.2 <u>Initial production sample failure</u>.- Failure of the sample to comply with requirements of the drawings and specifications will result in sample disapproval.

4.3 Inspection provisions.

4

4.3.1 Submission of product.- The product shall be submitted in accordance with MIL-STD-105 or MIL-STD-1235, as applicable.

4.3.1.1 Lot.- A lot shall consist of assembled containers produced by one manufacturer in one unchanged process, in accordance with the same drawings and drawing revisions, and same specification and specification revision.

4.3.1.2 Lot identification. The body and cover assemblies of each container of the lot shall be identified as specified by Drawings F10542566 and F10542569, supplemented as directed by the procuring agency.

4.3.2 <u>Examination</u>.- Examination for major and minor defects shall be performed as specified herein. Each assembly found to be defective shall be rejected.

4.3.2.1 <u>Sampling plans</u>.- The sampling plans of either MIL-STD-105 or MIL-STD-1235 shall apply to the option of the contractor. To determine product acceptability, major and minor defects as listed herein may be considered on a class basis, or they may be considered individually. (See 6.3). However, when three or less defect characteristics are listed in a classification, acceptability shall be determined on an individual basis for major defects. (See 6.3)

4.3.2.2 AQL's.- The following AQL's are assigned:

a. Individual defects

Major	defects	0.25%
Minor	defects	0.40%

b. Class basis

Major defects1.50%Minor defects2.50%

4.3.3 <u>Classification of defects (see 6.4)</u>.- The classification of defects shall be as follows:

.3.3.1 Body (see Dwg. F10542567 a detail of Dwg. D10542566).

Categories and Defects

Method of Inspection

1.1

CRITICAL

None defined

#### MAJOR

101. Thickness, metal

Gage

4.3.3.1 (Cont'd)

## Categories and Defects

## MINOR

201. Height of body seam

4.3.3.2 Bottom (see Dwg. F10542568 a detail of Dwg. F10542566).

Categories and Defects

#### CRITICAL

None defined

#### MAJOR

101.	Thickness,	metal	•	Gage
102.	Length			Gage
103.	Width			Gage

# MINOR

None defined

4.3.3.3 Cover (see Dwg. D10542570 a detail of Dwg. F10542569).

Categories and Defects	Method of Inspectio	n
CRITICAL		
None defined		
MAJOR		
101. Thickness, metal 102. Width, inside cover (2 places)	Gage (ک Gage	
MINOR		•
None defined		

Method of Inspection

Gage<sup>.</sup>

Method of Inspection

# 4.3.3.4 Shipping and storage container, painted (see Dwg. F10542565, P10542566 and F10542569 as applicable).

#### Categories and Defects

#### Method of Inspection

#### CRITICAL

None defined

#### MAJOR

101.	Inside width, body assembly, min.	Gage
102.	Inside length, body assembly, min.	Gage
103.	Inside depth, body assembly, min.	Gage
104.	Interior or exterior paint inadequate	Visual 1/
105.	Corrosion	Visual
LOD.	Cracked or split component	Visual
107.	Missing, incomplete, broken or mislocated metal	
	component	Visual
108.	Missing welds	Visual
109.	Mutilated metal component	Visual 2/
110.	Steel sliver, burr or sharp edge	Visual-Feel 3/
ЦЦ.	Missing, inverted, loose, misaligned or defective	2
	gasket	Visual-Manual 4/

#### MENOR

201.	Outside height	Gage
2 <b>0</b> 2.	Outside length	Gage
203.	Outside width	Cage
204.	Marking incorrect, incomplete, illegible or missing	Visual
205.	Foreign matter, except corrosion	Visual

1/ MIL-STD-406 shall be used as a guide to classify paint defects. In the standard defects classified as incidental shall be considered permissible; defects classified as minor shall be considered major. Missing, damaged, or incomplete paint shall be classified a defect. Bare spots on any subassembly which do not accumulate to exceed  $\frac{1}{2}$  square inch in area, or scratches which do not penetrate to the phosphate coating shall be disregarded.

2/ If the body or cover is severely dented or malformed, or the carrying of locking hardware is bent or otherwise distorted to cause a functional failure or become a personnel hazard, the sample unit shall be classed defective.

3/ If a steel sliver, burr or sharp edge which could injure unprotected hands is found on a ferrule, the bottom edge of a latch or cover skirt, or on the top or bottom edges of the body, the sample unit shall be classed defective.

7

4/ If the gasket is missing, inverted, broken, split or torn, contains a gross defect in texture or fit, or can be shifted horizontally within the gasket retainer by finger pressure or manual shake of the cover assembly, the sample unit shall be classed defective.

4.4.4 Tests.- The tests listed in Table I shall be performed on each lot in compliance with the test methods and procedures specified by 4.5. The sampling plans for the various tests shall be as specified by Table I. For acceptance, the results of each test shall apply with the applicable requirement(s).

Test	Sample Size	Item	Requirement
Phosphate coating 1/	3	Standard panels, TT-C-00490	3.2.1
Paint adhesion 2/	3	Containers	3.2.2
Corrosion resistance 3/	2	Containers	3.2.3
Concevity & convexity 4	/ 50	Containers	
	, -	Cover assemblies	3.3.1
		Body assemblies	3.3.2
Gasket compression 5/	10	Containers	3.4
Airtightness 6/	50	Containers	3.5
Functioning ?/	8	Containers	3.6
Weld security 8/	8	Containers	<b>3</b>
Hasp	-	Body assemblies	3.7.1
Handle		Body assemblies	3.7.2
Latch		Cover assemblies	3.7.3

Table I

1/ Failure of the phosphate coating on the standard panels to comply with the applicable requirements for appearance and minimum weight, shall be cause for rejection of all container subassemblies phosphated since the preceding test.

2/ Failure of one or more units of the sample to comply with the requirements for paint adhesion shall be cause for rejection of the lot.

3/ Failure of one or more units of the sample to comply with the requirements for corrosion resistance shall be cause for rejection of the lot.

4/ Tailure of four or more units of the sample to comply with the requirements for convexity or concavity shall be cause for rejection of the lot. If two or three units of the sample fail to comply with the requirement, a second sample consisting of the same number of units as specified for the first sample shall be tested. If, in the accumulated samples, five or more units fail to comply with the requirement the lot shall be rejected. The sampling plan shall apply independently to cover and body assemblies.

5/ A variables inspection plan from MTL-STD-414, Table B-3, an AQL of 1.50 percent shall be used to determine lot acceptability, applying the method of calculation as shown in Example B-3. Failure of the sample to meet the acceptability criterion shall be cause for rejection of the lot.

Of Failure of four or more units of the sample to comply with the requirement Fall airtightness shall be cause for rejection of the lot. If two or three units of the sample fail to comply with the requirement, a second sample consisting of the same number of units as specified for the first sample shall be tested. If, in the accumulated samples, five or more units fail to comply with the requirement, the lot shall be rejected. A stream or recurring succession of bubbles from any surface, seam or gasket junction shall be evidence of a defective container.

[/ Failure of two or more units of the sample to comply with the specified Faultioning requirements shall be cause for rejection of the lot. If one unit fails to comply with the requirements, a second sample consisting of the same number as specified for the first sample, shall be tested. If, in the accumulated samples, two or more units fail to comply with the requirements for functioning, the lot shall be rejected.

 $\frac{2}{2}$  Failure of one or more units of the sample to comply with the specified requirements for weld security of hasp assemblies, latch assemblies or handle assemblies shall be cause for rejection of the lot.

4.4.5 <u>Packaging, packing and marking inspection</u>.- There are no packaging or packing requirements applicable to this item.

4.4.6 <u>Inspection equipment</u>.- Index of Inspection Equipment List No. IEL 10542565 identifies the inspection equipment required to perform the examination and tests prescribed herein. Equipment design shall be in accordance with code designation on the applicable IEL. (Reference is made to Inspection Equipment List for definition of coding format).

4.5 Test methods and procedures.

-.5.1 Phosphate coating.- The method of test shall comply with the requirements of TT-C-00490, as applicable to the type of phosphate used. The prescribed panels shall be processed with the cover of body assemblies to be represented, beginning with the start of daily production and at 4 hour intervals, maximum, thereafter. Appearance and weight of the phosphate coating on the panels shall be recorded against the batch of cover or body assemblies represented.

•.5.2 Paint adhesion.- The method of test shall comply with applicable quirements of TT-C-00490. The test shall be performed on three randomly

9

4.5.3 <u>Corrosion resistance.</u> The method of test shall comply with the requirements of Method 6061 of Federal Test Method Standard No. 141, except as modified by 3.2.3. Prior to subjecting the sample containers to the test, one "X" score 6 to 7 inches long, cutting through the external protective coating, shall be made on the flat surface of the cover and the side of the body. Tracers of paint blistering or corrosion spots on component edges or sharp corners shall not be classed as protective coating failure.

# 4.5.4 Concavity and convexity.

4.5.4.1 <u>Cover assembly.</u> The concavity and convexity shall be measured on the sample cover assemblies along the length over cover at gasket position, the width adjacent to the latch retainer on the flat surface of the cover, utilizing the test fixture. (see D8648467, a detail of IEL 10542565).

4.5.4.2 Body assembly. The concavity and convexity shall be measured on the sample body assemblies along the length and width on the hemmed edge of the body utilizing the test fixture. (See D8648466, a detail of IEL-10542565).

4.5.5 Gasket compression.

4.5.5.1 <u>Compressed gasket and cover measurements.</u> The container shall be positioned in a suitable fixture so that it cannot be moved. Four points, two on each side, four inches from each end, shall be located (by scribing and numbering 1, 2, 3 and 4) on both the body and the cover. With the container fully closed, a measurement at each of the four locations, with a precision measurement device, shall be recorded. The cover shall then be removed and height to the hemmed edge of the body at the same point shall be recorded. Subtraction of the second reading from the first reading gives the value of the compressed gasket and cover.

4.5.5.2 Uncompressed gasket and cover measurements.- The cover and uncompressed gasket shall be measured at each of the four locations with a precision measurement device and readings recorded. Care must be exercised so that the surface of the measuring device does not rest in the groove of the compression set. These readings are the uncompressed gasket and cover values.

4.5.5.3 Average gasket compression value.- The compressed gasket and cover readings (see 4.5.5.1) shall be subtracted from the uncompressed gasket at cover readings (see 4.5.5.2) at the corresponding location points. The sum of the resulting values for the four location points divided by four shall be considered the average gasket compression value. The average value for each container of the test sample, shall be used in the calculations in accordance with MIL-STD-414 to determine compliance with the drawing requirements.

4.5.6 <u>Airtightness.</u> The container shall be conditioned to ambient temperature and pressure prior to testing. The containers shall be tested in accordance with 4.5.6.1 or with permission of the procurement agency with 4.5.6.2 A wetting agent may be used to minimize air bubbles clinging to the exterior surface.

4.5.6.1 <u>Vacuum method</u>.- The container shall be tested for leakage by immersing the closed container in the inverted position under water in a vacuum vessel and lower the pressure in the vessel to three pounds per square inch below ambient pressure. Observations for leakage of air from the container interior shall be made for a minimum of 30 seconds after reduction of pressure.

4.5.6.2 Hot water method.- The container shall be tested for leakage by immersing the closed container, in the inverted position, to a depth of one inch below the surface of the water. The temperature of the water and the length of time of immersion shall be that which will assure an increase in pressure to 3 psi above ambient pressure. Observation for air leakage from the container interior shall be made during the period of pressure buildup and for 30 seconds after the 3 psi pressure differential has been reached.

4.5.7 <u>Functioning</u>.- The container shall be inspected to assure compliance with the requirements of 3.6 through the following procedures:

a. Unlock and lock the cover assembly hardware by hand leverage. Note the locking and unlocking action for effectiveness and ease of operation.

b. Remove and replace the cover assembly. Note any misfit or bind with the body assembly.

c. Remove all cover assemblies. Inspect the gaskets for fit, security, cuts, and splits.

d. Note any sticking of gaskets to the top edges of the body assemblies.

e. Environmentally condition the container as specified in 3.6.3. After conditioning reinspect the container in accordance with a, b, c, and d, above.

4.5.8 Weld security.

4.5.8.1 <u>Hasp assembly</u>. The sample body assembly resting on their bottoms shall be clamped in a suitable device. The specified tensional force, utilizing the test fixture (see Dwg. D11075104, a detail of IEL 10542565 for hasp weld security, shall be slowly applied perpendicular to the bottom and against the underside of the offset of the hasp. The force shall be applied at a rate of .125 to .25 inch per minute and held for one minute. After removal of the force, examine the hasp for distortion and weld failure.

4.5.8.2 <u>Handle assembly.</u> With the sample body assembly resting on its bottom or on end, attach the text fixture (see Dwg. Dll075103, a detail of IEL 10542565) for end handle security to each end handle. With one test fixture securely held, apply the specified tensional force through the other test fixture parallel to the container bottom against the ferrule of each handle. The force shall be applied at a rate of .125 to .25 inch per mimite and held for one minute. After removal of the force, examine the handle and hasp for distortion and weld failure.

4.5.8.3 Latch assembly.- Attach test fixture (see Dwg. Dll075102, a detail of IEL 10542565) for latch assembly security to each latch on the cover assembly. Secure one test fixture and slowly apply a tensional force to the other parallel to the face of the cover. The force shall be applied at a rate of .125 to .25 inch per minute and held for one minute. The test fixture apply the force against the surface of the latch links exposed on the underside of each latch. After removal of the force, examine the latches, latch links, latch link retainers and cover for distortion and weld failure.

5. PREPARATION FOR DELIVERY

5.1 Packaging and packing.- There are no packaging or packing requirements for this item.

5.2 <u>Marking</u>.- Each container shall be marked on the welded end with a label containing the following information:

- a. Consignee
- b. Manufacturer
- c. Item nomenclature
- d. Lot number
- e. Contract number

Marking will not be required where shipment is in full carload or full truckload moving to a single consignee.

5.2.1 Labels.- The labels shall conform with MIL-L-19896 and shall be four inches square, approximately. The labels shall be marked with letters and figures 1/4 inch high, minimum.

6. NOTES

6.1 Ordering data.- Invitation for bids and contracts or orders will specify the following:

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6.1.1 Title, number and date of this Military Specification.

6.1.2 Place of inspection, if not place of manufacture.

6.1.3 First article sample requirements. (see 4.2)

6.2 First article sample. The procurement agency may waive the requirement for a first article sample if the contractor has recently demonstrated his ability to produce this item. (see 4.2)

6.3 <u>AQL's.</u> The optional use of AQL values for either individual defects or classes of defects is intended to minimize inspection agency administrative burden which might result from an exclusive assignment of individual defect AQL's. The option also permits flexibility where sampling inspection for acceptance is integrated into the manufacturing process.

6.4 Intermediate point inspection.- The classification of defects identifies the defect characteristics (among other things) for acceptance inspection. It may be necessary to modify the sequence of inspection stations to best suit the manufacturing process. Inspection for defect characteristics which will be hidden or altered by subsequent processing operations (including unrelated operations), should be scheduled to prevent premature acceptance which could be detrimental to the attainment of optimum product quality in the end item.

6.5 <u>Measurement for gasket compression</u>.- Three point contact of the container resting on blocks may be used to overcome any rocking motion which might be encountered with the container resting on the surface plate. However, since the measurement technique relies upon relative distances, care should be taken to assure that there is no displacement on the referenced surfaces between the readings.

Custodian:

Preparing activity:

Army - MU

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Review activity:

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Project No. 8140-A066

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