INCH-POUND

MIL-C-2440E (AR)
AMENDMENT 5
27 February 1989
SUPERSEDING
AMENDMENT 4
15 May 1984

## MILITARY SPECIFICATION

## CONTAINERS, METAL, FOR PROPELLING CHARGE

This Amendment forms a part of Military Specification MIL-C-2440E (AR), dated 29 October 1979, and 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.

## PAGE 2

Standards, Military: Delete "MIL-STD-1188 - Commercial Packaging of Supplies and Equipment".

## PAGE 3

Other Publications, American Society for Testing Materials:

Add:

"ASTM-D412 - Tension Testing of Vulcanized Rubber, Standard Method of

ASTM-D3951-82 - Commercial Packing, Standard Practice for".

## PAGE 5

4.3.2, line 1: After "see MIL-A-48078" and Table I specified herein."

Add the included Table I to the specification.

## PAGE 9

Add the included Classification of Defects and Tests (4.4.2.5, 4.4.2.6, 4.4.2.7, 4.4.2.8 and 4.4.2.9) to the specification.

FSC 8140

AMSC N/A 1 of 13

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

First article inspection. TABLE I.

•	CLASSIFICATION OF DE	EFECTS	DEFECTS & TESTS		MIL-C-2440E (AR) AMENDMENT 5	
. <b>Равас</b> варн 4.3.2.1	Containers, Metal, for Propelling Charges and Components		1	1 4	DRAWING NUMBER See Below	
	4			3	NEXT HIGHEN ASSEMBLY	
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE ZINSPECTION METHOD	
·	Body (see dwg. 8880538)  a. Examination for defects  l. Thickness  2. Length  3. Location of bead for rim  b. Tensile strength		,	33.11 3.11 1.11		
	Bottom (see dwg. 8880539 or 8880540, as applicable) Examination for defects 1. Thickness	1		3.1	Gage	
	Plug (see dwg. 8880552) Examination for defects			3. I	4.4.2.2	
	Rim (see dwg. 8880541) Examination for defects	1		3.1	4.4.2.4	
	Ring (see dwg. 8880542)  Examination for defects  1. Thickness				Gage	•
				,		
NOTE:						

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

TABLE I. First article inspection.

TESTS
4
DEFECTS
9
CLASSIFICATION

(AR)	
MIL-C-2440E AMENDMENT 5	
•	

	TO NOTIFICATION	Verecis	2001 8		
PARAGRAPH					DRAWING NUMBER
4.3.2.1	Containers, Metal, for Propelling Charges and Components		SHEET	2 or 4	See Below Next Higher Assenbly
CATEGORY	EXAMINATION OR TEST S	NO. OF SAMPLE UNITS	AGL OR 100%	REGUIREMENT	PARAGRAPH REFERENCE /INSPECTION METHOD
	Screw Assembly (see dwg. 8880544, 8880545) or 8880547 as applicable) a. Examination for defects l. Pitch diameter of thread 2. Major diameter of thread 3. Total length b. Crimp of handle to sleeve	- 10	ı		Gage Gage Gage 4.5.5
	Stud (see dwg. 8880549)  Examination for defects  1. Total length  2. Pitch diameter of thread  3. Minor diameter of thread  4. Small outside diameter	r)	ı	 	Gage Gage Gage Gage
	Cover (see dwg. 8880550)  Examination for defects  1. Overall height (1 9/16")  2. Width of gasket groove  3. Height of lip	S		 	Gage Gage Gage
	Nut (see dwg. 8880553, 9232378, 9282857, or 9311209 as applicable) Examination for defects 1. Minor diameter of thread 2. Pitch diameter of thread	2	I	3.1	Gage Gage
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First article inspection. TABLE I.

# CLASSIFICATION OF DEFECTS & TESTS

	CLASSIFICATION OF D	DEFECTS	& TESTS		MIL-C-2440E (AR) AMENDMENT 5
PARAGRAPH 4.3.2.1		Ŋ		3 4	DRAWING NUMBER See Below
	and Components			ð	NEXT HIGHEN ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE //NSPECTION METHOD
	ts	Ω.	ŧ	3.1	Gage
	<ol> <li>Location from center of hole to edge of wing (Dimension A)</li> <li>Thickness</li> </ol>			1.E	Gage Gage
	Base (see dwg. 8880556 or 8880557, as applicable) Examination for defects 1. Height 2. Thickness 3. Diameter of hole	ſΩ	f	 	Gage Gage Gage
		ហ	l .	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	മേയുട മേയുട ദേയുട
	. Height from large width			3.1	Gage
	b. Tensile strength (see note)	3 of	ΙΟ	3.1	4.5.9/dwg. 8880558

performed after the other inspections have been mores The gasket tensile stress test shall be performed on the applicable samples.

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

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(5c)

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First article inspection. TABLE I.

MIL-C-2440E (AR)

	CLASSIFICATION OF D	DEFECTS	& TESTS		MIL-C-2440E (AR) AMENDMENT 5
РАВАБВАРН 4.3.2.1	nn. Containers, Metal, for Propelling Charges	Ñ		4 4	DRAWING NUMBER See Below
					NEXT HIGHEN ASSEMBLY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT PARAGRAPH	PARAGRAPH REFERENCE /INSPECTION METHOD
	Body Assembly, unpainted (see dwg. 8880537)  a. Examination for defects b. Weld of rim to body	Ŋ	. 1	3.1 3.1	4.4.2.1
	Spider and Nut Assembly (see dwg. 8880554) a. Crimp of nut to spider	7	1	3.1	4.5.8
	Cover Assembly (see dwg. 8880543) a. Weld of stud cover	S	ţ	H.	4.5.4
	Assembly (see dwg. 9332423) a. Examination for defects b. Assembly of cover and body c. Air pressure test	ហ	ı	8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4.4.2.3 4.5.2 4.5.3
			·		
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Replaces DRSMC-QA (D) Form 160, 1 Aug 83, which may not be used.

CLASSIFICATION OF DEFECTS & TESTS

(AR)	•
MIL-C-2440E	AMENDMENT 5
	ESTS

PARAGRAPH	200 in 100 in 10		515313		
1 C 7				-	DRAWING NUMBER
4.4.2.5	Body		F3#8	1 or 1	8880538 NEXT HIGHEN ASSEMBLY
					8880537
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT	PARAGRAPH REFERENCE //MSPECTION METHOD
Critical	None defined				
Major 101 102 103	Thickness Length Location of bead for rim		0 • 4 0 • 4 0 8 0 8 0 8	HH -	යි ක්ර ශ්‍ය ශ්‍ය ශ්‍ය ශ්‍ය ශ්‍ය ශ්‍ය ශ්‍ය ශ්‍ය
Minor 201	Evidence of poor workmanship		65 85	1 œ	יים אלים ביים ביים ביים ביים ביים ביים ביים ב
		······			
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	CLASSIFICATION OF DEFECTS & TESTS	EFECTS	& TESTS		MIL-C-2440E (AR) AMENDMENT 5
Paragraph	Tuu				DRAWING NUMBER
4.4.2.6	Cover		<b>2467</b>	SHEET 1 OF 1	8880550 NEXT HIGHEN ASSURITY
CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT	8881028 PARAGRAPH REFERENCE
Critical	None defined				
Major 101 102 103	Overall height (1 9/16") Width of gasket groove Height of lip		0.40% 0.40% 0.40%		<b>Gage</b> Gage Gage
Minor 201	Evidence of poor workmanship		0.65%	3.8	Visual

CLASSIFICATION OF DEFECTS & TESTS

MIL-C-2440E (AR) AMENDMENT 5

ı						SALVING MINUSE
	4.4.2.7	nnt Screw assembly		SHEET	4 1	، قتاسم،
	CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE UNITS	AQL OR 100%	REQUIREMENT	8880543 PARAGRAPH REFERENCE //NSPECTION METHOD
	Critical	None defined				
	Major 101 102 103	Pitch diameter of thread Major diameter of thread Total length		0.408 0.408 0.408	H. H.	Gage Gage Gage
8	Minor 201	Evidence of poor workmanship		0.65%	8 8	Visual
(9c)						
			·			
	HOTER					
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CLASSIFICATION OF DEFECTS & TEST

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	80 %	T	,		·			
BR80549 NEXT HIGHER ASSENDET	8880543 PARAGRAPH REFERENCE		ტტ გემ გემ გემ გემ გემ გემ გემ გემ გემ გემ	Visual				
.⊣ ₽	REQUIREMENT		ee ee	ω				
SAEET	AQL OR TOOM		0.40% 0.40% 0.40%	0.65%		,		
	NO. OF SAMPLE UNITS							
Stud	EXAMINATION OR TEST	None defined	Total length Pitch diameter of thread Minor diameter of thread Small outside diameter	Evidence of poor workmanship				
4.4.2.8	CATEGORY	Critical	Major 101 102 103 104	Minor 201	(9d)			HOTE
	Stud	Stud  SHEET THE THE THE THE THE THE THE THE THE	Stud  Stud  Stud  Stud  INO. OF AQL  SAMPLE OR  NOT AQL  SAMPLE OR  UNITS IOON  NONE defined  None defined	Stud         Stud         Sherr On Market         3 - 1	Stud	Stud	Stud	Stud



# CLASSIFICATION OF DEFECTS & TESTS

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,	,	CLASSIFICATION OF D	DEFECTS	& TESTS		AMENDMENT 3
_	HAVESTAPH	שורך				DRAWING NUMBER
	4.4.2.9	Gasket		5	ب دا	8880558
						NEXT MIGHEN ASSEMBLY 8880543
	CATEGORY	EXAMINATION OR TEST	NO. OF SAMPLE	AQL	REQUIREMENT	ERENCE
			CALIS	Î	PARAGRAPH	/INSPECTION METHOD
	Critical	None defined				
	Major					
	101	Angularity, max.		0.40%	3.1	Gage
	102	Inside diameter		0.40%	m,	Gage
	104	(3/8")		0.40%	3.1	Gage
10	105	Height from base to edge of large				,
0				0.40%	3.1	Gage
(9	Minor	,				
e)	T07	EVidence of poor workmanship		0.65%	œ •	Visual
	NOTE:					

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## PAGE 10

4.4.3.7 Weld of nut to spider. (see dwg. 8880554): Delete in its entirety.

## PAGE 11

- 4.4.3.9 Add new paragraph as follows:
  - "4.4.3.9 Tensile stress of gasket (see dwg. 880558),
    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."

## PAGE 12

- 4.5.7 Weld of nut to spider. Delete in its entirety.
- 4.5.9 Add new paragraph as follows:
  - "4.5.9 Tensile strength of gasket. The tensile stress shall be determined in accordance with ASTM-D412."
- 5. Delete in its entirety and substitute the following:
  - "5. PACKAGING
  - 5.1 Unit packing. None required.
  - 5.2 Packing. Packing shall be commercial. Propelling charge containers shall be prepared in accordance with ASTM D3951-82 (Standard Practice for Commercial Packing).
  - 5.3 Marking. Shipping marking shall comply with ASTM D3951-82 and the following additional instructions. No shipping marking shall be placed directly on the containers. Commercial shipping tags attached with wire shall be used unless otherwise specified. The following information shall be shown: item name and model number, part number and revision, contract number, lot number and date, name and address of manufacturer. If containers 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."

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## PAGE 14

Add new paragraph as follows:

"6.5 Superseded container designs. Containers and their components, whose designs have been superseded, are not acceptable for renovation (see Appendix) without prior approval of the procuring activity."

## PAGE 15

\* 30.4 Change title to "Air pressure of body and cover".

## PAGE 16

- \* 40.1.2 Inspection No. 3, Air Pressure: Change "(see 30.4)" to "(see Note 1 below and 30.4)".
- \* 40.1.4 Cover after painting:

Inspection No. 3, Change to "Cover gasket missing or improper".

- "4. Plugwasher missing or improper Visual
- 5. Air pressure (see Note 1 below and 30.4) Test, 100 percent".
- \* Bottom of page Add note as follows:
  - "1. The air pressure test may be conducted 100 percent on the assembled container (cover and body), after painting, in lieu of the individual body or cover."

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The margins of this amendment are marked with an asterisk or vertical line to indicate where changes (additions, modifications, corrections, deletions) from 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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(Project 8140-A788)