INCH-POUND

MIL-A-70788A (AR)
5 February 1993
SUPERSEDING
MIL-A-70788 (AR)
29 June 1989
MIL-A-70754 (AR)
10 April 1989

MILITARY SPECIFICATION

ADAPTER, METAL AND WOOD PALLET

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

1. SCOPE

1.1 Scope. This specification covers the requirements, examinations, tests and packaging of special adapters for metal pallets. The adapter, together with the metal pallet, will be used in unitizing ammunition (See 6.1).

1.2 Classification. The adapters shall be of the following types (See 6.2):

Type I - Adapter, Pallet, PA113 Container
Type II - Adapter, Pallet, PA116 Container
Type III - Adapter, Pallet, PA117 Container
Type IV - Adapter, Pallet, PA120 Container
Type V - Adapter, Pallet, PA125 Container

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards and handbooks. The following specifications, standards and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

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 ARDEC, ATTN: SMCAR-BAC-S, Picatinny Arsenal, New Jersey 07806-5000 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

SPECIFICATIONS

FEDERAL

TT-C-490 - Cleaning Methods for Ferrous Surfaces and Pretreatments for Organic Coatings

MILITARY

MIL-A-48078 - Ammunition, Standard Quality Assurance Provisions, General Specification for
MIL-A-70625 - Automated Acceptance Inspection Equipment Design, Testing and Approval of

STANDARDS

MILITARY

MIL-STD-109 - Quality Assurance Terms and Definitions
MIL-STD-171 - Finishing of Metal and Wood Surfaces
MIL-STD-1261 - Arc Welding Procedures for Constructional Steel
MIL-STD-1660 - Design Criteria for Ammunition Unit Loads

(Unless otherwise indicated, copies of federal and military specifications, standards and handbooks are available from Standardization Documents Order Desk, Bldg. 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.1.2 Other Government documents, drawings and publications. The following other Government documents, drawings and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

DRAWINGS

U.S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER.

AC200000414 - Adapter - Pallet, PA113 Container
AC200000423 - Chemical Agent Resistant Coating (CARC) Finishing Requirements for Metal Pallets and/or Pallet Adapters

AC200000461 - Wood Pallet and Top Adapter Assembly for PA116 Container
AC200000501 - Adapter - Pallet, PA116 Container
AC200000812 - 44 X 40 Adapter Lug Positioning Test Fixture
ACV00053 - Combination of Adopted Items, Pallet and Pallet Adapter, Unitization of PA125 Container
ACV00124 - Combination of Adopted Items, Pallet and Pallet Adapter, Unitization of PA120 Container
ACV00134 - Combination of Adopted Items, Pallet and Pallet Adapter, Unitization of PA117 Container

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

2.2 Non-Government publications. The following document(s) forms a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM-D3951 - Standard Practice for Commercial Packaging (DOD adopted)

(Applications for copies for ASTM publications 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 document and the references cited herein, the text of this document shall take precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Materials. Materials and parts shall be accordance with applicable drawings and specifications.

3.2 Adapters. The adapter assemblies shall comply with all requirements specified on drawings (Dwgs) AC200000414, AC200000461, AC200000501, ACV00053, ACV00124 and ACV00134, as applicable and associated drawings and with all requirements specified in applicable specifications and standards.

3.3 Welding. The welding shall comply with the requirements of MIL-STD-1261.

3.4 Lifting ring (bar) pull test. Each lifting ring (bar) of the adapter top assembly shall withstand a (non-destructive) load of 2,500 pound minimum (min.) for a duration of 30 seconds minimum.

3.5 Painted surface. The painted surface of the adapters shall comply with the requirements of Dwg AC200000423 (Chemical Agent Resistant Coating (CARC)) and applicable drawings. The adapters for the PA116 Container (Dwg AC200000461) is the only adapter which has the option of complying with CARC requirements or with requirements for conventional coating (see 3.5.1).

3.5.1 Conventional coating. The painted surface of the adapters (applicable only to PA116 Container pallet top adapters used for training rounds on wooden pallets) shall comply with the requirements of the applicable drawings, TT-C-490 and with instructions in MIL-STD-171.

3.6 Unit load tests. The metal pallet adapters, as part of unit loaded pallets, shall conform to the requirements specified in MIL-STD-1660.

3.7 First article inspection. When specified in the contract or purchase order (see 6.2), a sample shall be subjected to first article inspection in accordance with the technical provisions herein (see 4.3).

3.8 Workmanship.

3.8.1 Adapters. The adapters shall be regular, smooth and free from wrinkles, cracks, rough spots, burrs, sharp edges and other defects that might affect the serviceability, durability and safety of the adapters. Weld spatter is permissible on non-load bearing surfaces provided it is firmly attached.

3.8.2 Paint coating. The finished coat shall cover all required surfaces and be continuous. Paint runs are permissible provided they are no more than 3 inches in length, solid and free from cracks and blisters. Excess thickness is acceptable in areas where multiple passes of the paint gun are required to obtain total

coverage. Paint chips which expose primer or bare metal are acceptable provided they are not more than 0.25 inches in diameter and no more than two such paint chips on an adapter. Scratches which expose primer or bare metal are permissible provided they are no more than 1.5 inches in length and no more than 10 inches total on an adapter. Bare metal on contact surfaces in areas inaccessible to paint is permissible.

3.8.3 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. QUALITY 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 (examinations and tests) 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 this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspections 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 this specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.1.2 General provisions. Unless otherwise specified herein, the provisions of MIL-A-48078 apply and form a part of this specification. Reference shall be made to MIL-STD-109 to define quality assurance terms used herein.

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

a. First article inspection (see 4.3)

b. Quality conformance inspection (see 4.4)

4.3 First article inspection.

4.3.1 Submission. The contractor shall submit a first article sample as designated by the Contracting Officer for evaluation in accordance with the provisions of 4.3.2. The first article sample shall consist of the following items in sample quantities as indicated:

Part description	Quantity
Lifting ring (bar)	6
Top assembly (unpainted)	6
Bottom assembly (unpainted)	6
Top assembly (painted)	6
Bottom assembly (painted)	6
Intermediate assembly (unpainted)	6
Intermediate assembly (painted)	6
Adapter assembly	3

The samples for the adapter assemblies may be comprised of the individual painted top, bottom and intermediate (when applicable) assemblies submitted.

4.3.2 Inspections to be performed. See MIL-A-48078 and Table I specified herein.

4.3.3 Rejection. See MIL-A-48078.

TABLE I. First article inspection

CLASSIFICATION OF CHARACTERISTICS

PARAGRAPH	TITLE	SHEET 1 OF 2	DRAWING NUMBER
	Assemblies and Components		As applicable
			NEXT HIGHER ASSEMBLY

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
	Lifting ring (bar) (Dwg. AC200000804, ACV00060 or ACV00130, as applicable) Examination for defects	6	3.2	4.4.2.1
	Top assembly, unpainted (Dwg. AC200000469, AC200000807, AC200000827, ACV00054, ACV00125 or ACV00135, as applicable) Examination for defects	6	3.2	4.4.2.2
	Top assembly, painted (Dwg. AC200000469, AC200000807, AC200000827, ACV00054, ACV00125 or ACV00135, as applicable) Examination for defects	6	3.2	4.4.2.3
	Bottom assembly, unpainted (Dwg. AC200000470, AC200000828, ACV00055, ACV00126 or ACV00136 as applicable) Examination for defects	6	3.2	4.4.2.4

NOTES:

TABLE I. First article inspection

CLASSIFICATION OF CHARACTERISTICS

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PARAGRAPH	TITLE	SHEET 2 OF 2	DRAWING NUMBER
	Assemblies and Components		As applicable
			NEXT HIGHER ASSEMBLY

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
	Bottom assembly, painted (Dwg. AC200000470, AC200000828, ACV00055, ACV00126 or ACV00136, as applicable) Examination for defects	6	3.2	4.4.2.5
	Intermediate assembly, unpainted (Dwg. ACV00056) Examination for defects	6	3.2	4.4.2.6
	Intermediate assembly, painted (Dwg. ACV00056) Examination for defects	6	3.2	4.4.2.7
	Adapter assembly (Dwg. AC200000414, AC200000461, AC@00000501, ACV00053, ACV00124 or ACV00134 as applicable) Unit load test	3	3.6	4.5.1

NOTES:

4.4 Quality conformance inspection.

4.4.1 Inspection lot formation. The term "inspection lot" is defined as a homogeneous collection of units of product from which a representative sample is drawn or which is inspected 100 percent to determine conformance with applicable requirements. Units of product selected for inspection shall represent only the inspection lot from which they are drawn and shall not be construed to represent any prior or subsequent quantities presented for inspection. Homogeneity shall be considered to exist provided the inspection lot has been produced by one manufacturer in one unchanged process, using the same materials and methods, in accordance with the same drawings, same drawing revisions, same specifications and, same specification revisions. All material submitted for inspection in accordance with this specification shall comply with the homogeneity criteria specified herein, regardless of the type of inspection procedure which is being applied to determine conformance with requirements.

4.4.2 Examination and tests.

a. Classification of characteristics. Quality conformance examination and tests are specified in the following Classification of Characteristics paragraphs. The contractor's quality program or detailed inspection system shall provide assurance of compliance of all characteristics with the applicable drawing and specification requirements utilizing as a minimum the conformance criteria specified. When cited herein, attributes sampling inspection shall be conducted in accordance with Table II below, using the inspection levels stated in the Classification of Characteristics paragraphs.

TABLE II. Attribute sampling inspection

Lot Size	Inspection Levels					
	I	II	III	IV	V	VI
2 to 8	*	*	*	*	5	3
9 to 15	*	*	*	13	5	3
16 to 25	*	*	*	13	5	3
26 to 50	*	*	32	13	5	3
51 to 90	*	*	32	13	13	5
91 to 150	*	125	32	13	13	5
151 to 280	*	125	32	30	20	8
281 to 500	*	125	32	30	20	8
501 to 1200	*	125	80	50	20	13
1201 to 3200	1250	125	80	50	32	13
3201 to 10000	1250	125	125	50	32	13
10001 to 35000	1250	315	125	80	50	13
35001 to 150000	1250	315	125	80	50	13
150001 to 500000	1250	500	200	125	50	13
500001 and over	1250	500	200	125	50	13

Number under inspection levels indicate sample size; asterisks (*) indicates one hundred percent inspection. If sample size exceeds lot size, perform one hundred percent inspection. Accept on zero and reject on one or more for all inspection levels.

b. Alternative quality conformance provisions. Unless otherwise specified herein or provided for in the contract, alternative quality conformance procedures, methods, or equipment, such as statistical process control, tool control, other types of sampling procedures, etc., may be used by the contractor when they provide, as a minimum, the level of quality assurance required by the provisions specified herein. Prior to applying such alternative procedures, methods, or equipment, the contractor shall describe them in a written proposal submitted to the Government for evaluation (see 6.3). When required, the contract shall demonstrate that the effectiveness of each proposed alternative is equal to or better than the specified quality assurance provisions(s) herein. In cases of dispute as to whether the contractor's proposed alternative(s) provide equivalent assurance, the provisions of this specification shall apply. All approved alternative provisions shall be specifically incorporated into the contractor's quality program or detailed inspection system, as applicable.

CLASSIFICATION OF CHARACTERISTICS

MIL-A-70788A (AR)

PARAGRAPH	TITLE	SHEET 1 OF 1	DRAWING NUMBER
4.4.2.1	Lifting ring (bar)		See Note 1
			NEXT HIGHER ASSEMBLY: See Note 2

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
Critical	None			
Major	None defined			
Minor 201	Evidence of poor workmanship	Level V	3.8	Visual

NOTES:
1. Dwg. AC200000804, ACV00060 or ACV00130 applies, as applicable.
2. Dwg. AC200000469, AC200000807, AC200000827, ACV00054, ACV000125 or ACV000135 applies, as applicable.

CLASSIFICATION OF CHARACTERISTICS

PARAGRAPH	TITLE	SHEET	DRAWING NUMBER
4.4.2.2	Top Assembly, Unpainted	1 OF 1	See Note 1
			NEXT HIGHER ASSEMBLY: See Note 2

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
Critical	None			
Major				
101	Material certification			Certification (Note 3)
102	Lifting ring pull test	100%	3.4	4.5.2
103	True position of stacking lugs	Level III	3.2	Gage (Note 4)
104	Weld missing, incomplete or incorrect	Level III	3.2	Visual
105	Overall length	Level IV	3.2	Gage
106	Overall width	Level IV	3.2	Gage
Minor				
201	Evidence of poor workmanship	Level V	3.8.1, 3.8.3	Visual

NOTES: 1. Dwg. AC200000469, AC200000807, AC200000827, ACV00054, ACV00125 or ACV00135 applies, as applicable.
2. Dwg. AC200000414, AC200000461, AC200000501, ACV00053, ACV000124 or ACV000134 applies, as applicable.
3. A Certification of Conformance shall be submitted for each component of the top assembly for compliance with the applicable drawing.
4. When this inspection is performed on the top assembly for the Type II or Type III Pallet Adapter, the gage shall be as specified in Dwg AC200000812.

CLASSIFICATION OF CHARACTERISTICS

PARAGRAPH	TITLE	SHEET	DRAWING NUMBER
4.4.2.3	Top Assembly, Painted	1 OF 1	See Note 1
			NEXT HIGHER ASSEMBLY: See Note 2

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
Critical	None			
Major				
101	Top coat thickness (total thickness minus primer thickness (see AC200000423 and Note 3))	Level IV	3.2	Gage
102	Marking missing, incorrect or illegible	Level IV	3.2	Visual
103	Paint adhesion test	4, 0-1	3.5	4.5.3
Minor				
201	Evidence of poor workmanship	Level V	3.8.2	Visual

NOTES:
1. Dwg. AC200000469, AC200000807, AC200000827, ACV00054, ACV00125 or ACV00135 applies, as applicable.
2. Dwg. AC200000414, AC200000461, AC200000501, ACV00053, ACV000124 or ACV000134 applies, as applicable.
3. The inspection is only applicable for CARC coating. The primer thickness shall be determined from a test panel.

CLASSIFICATION OF CHARACTERISTICS

PARAGRAPH	TITLE	SHEET 1 OF 1	DRAWING NUMBER
4.4.2.4	Bottom Assembly, Unpainted		See Note 1
			NEXT HIGHER ASSEMBLY: See Note 2

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
Critical	None			
Major				
101	Material certification			Certification (Note 3)
102	True position of stacking lugs	Level III	3.2	Gage (Note 4)
103	Weld missing, incomplete or incorrect	Level III	3.2	Visual
104	Overall length	Level IV	3.2	Gage
105	Overall width	Level IV	3.2	Gage
Minor				
201	Evidence of poor workmanship	Level V	3.8.1, 3.8.3	Visual

NOTES:

1. Dwg. AC200000470, AC200000828, ACV00055, ACV00126 or ACV00136 applies, as applicable.
2. Dwg. AC200000414, AC200000501, ACV00053, ACV000124 or ACV000134 applies, as applicable.
3. A Certification of Conformance shall be submitted for each component of the bottom assembly for compliance with the applicable drawing.
4. When this inspection is performed on the bottom assembly for the Type II or Type III Pallet Adapter, the gage shall be as specified in Dwg. AC200000812.

CLASSIFICATION OF CHARACTERISTICS

MIL-A-70788A (AR)

PARAGRAPH	TITLE	SHEET 1 OF 1	DRAWING NUMBER
4.4.2.5	Bottom Assembly, Painted		See Note 1
			NEXT HIGHER ASSEMBLY: See Note 2

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
Critical	None			
Major				
101	Top coat thickness (total thickness minus primer thickness (see AC200000423 and Note 3))	Level IV	3.2	Gage
102	Marking missing, incorrect or illegible	Level IV	3.2	Visual
103	Paint adhesion test	4, 0-1	3.5	4.5.3
Minor				
201	Evidence of poor workmanship	Level V	3.8.2	Visual

NOTES:

1. Dwg. AC200000470, AC200000828, ACV00055, ACV00126 or ACV00136 applies, as applicable.
2. Dwg. AC200000414, AC200000501, ACV00053, ACV000124 or ACV000134 applies, as applicable.
3. The inspection is only applicable for CARC coating. The primer thickness shall be determined from a test panel.

QUALITY CONFORMANCE INSPECTION

CLASSIFICATION OF CHARACTERISTICS

MIL-A-70788A (AR)

PARAGRAPH	TITLE	SHEET	DRAWING NUMBER
4.4.2.6	Intermediate Assembly -Pallet Adapter PA125 Container, Unpainted	1 OF 1	ACV00056
			NEXT HIGHER ASSEMBLY: ACV00053

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
Critical	None			
Major				
101	Material certification			Certification (Note 1)
102	Weld missing, incomplete or incorrect	Level III	3.2	Visual
103	Overall length	Level IV	3.2	Gage
104	Overall width	Level IV	3.2	Gage
Minor				
201	Evidence of poor workmanship	Level V	3.8.1, 3.8.3	Visual

NOTES:

1. A Certification of Conformance for each component of the intermediate assembly for compliance with the applicable drawing.

QUALITY CONFORMANCE INSPECTION

CLASSIFICATION OF CHARACTERISTICS

MIL-A-70788A (AR)

PARAGRAPH	TITLE	SHEET	DRAWING NUMBER
4.4.2.7	Intermediate Assembly, Pallet Adapter, PA125 Container, Painted	1 OF 1	ACV00056
			NEXT HIGHER ASSEMBLY: ACV00053

CLASSIFICATION	EXAMINATION OR TEST	CONFORMANCE CRITERIA	REQUIREMENT PARAGRAPH	INSPECTION METHOD REFERENCE
Critical	None			
Major				
101	Top coat thickness (total thickness minus primer thickness (see AC200000423 and Note 3))	Level IV	3.2	Gage
102	Marking missing, incorrect or illegible	Level IV	3.2	Visual
103	Paint adhesion test	4, 0-1	3.5	4.5.3
Minor				
201	Evidence of poor workmanship	Level V	3.8.2	Visual

NOTES:

1. The inspection is only applicable for CARC coating. The primer thickness shall be determined from a test panel.

AMSMC Form 1570a-E, 1 Jul 89 Replaces AMSMC Form 1570a, 1 Apr 85, which may not be used.

4.4.3 Testing. Testing is described in the First article and Quality Conformance Inspection Tables.

4.4.4 Inspection equipment. The inspection equipment required to perform the inspections specified is identified in the "Inspection Method Reference" column of the Classification of Characteristics listing starting in 4.4.2.1 and in 4.5. Contractor inspection equipment designs shall be submitted for Government approval as specified in the contract. Designs which provide variable measurements instead of attributes data are preferred in order to facilitate the use of statistical process control. When Automated Inspection Equipment is to be used, the provisions of MIL-A-70625 shall apply. See section 6 of MIL-A-48078 and 6.4 herein.

4.5 Methods of inspection. (See 6.5)

4.5.1 Unit load test. (First article inspection only (see 6.2.e)). Prototype unit loads for the pallet and adapter assemblies shall be fabricated in accordance with MIL-STD-1660 with the following exceptions. The gross weight of the ammunition load shall be 2,500 pounds minus 50 pounds, evenly distributed over the deck. Fabrication of the unit load shall include using the exact container for which the adapter is designed. The following tests shall be performed on the unit loads in accordance with MIL-STD-1660. The tests shall be performed in the sequence indicated ("a" through "f").

a. Stacking test
b. Repetitive shock test.
c. Edgewise drop (rotational) test.
d. Include impact test.
e. Sling compatibility test
f. Disassembly test

4.5.2 Lifting ring pull test. Each lifting ring of the adapter top assembly shall be placed in a test machine designed for pull testing. The load shall be applied by a steady pressure and the load read directly by a gage. The load applied, in a vertical direction, to each ring shall be 2,500 pounds and shall be maintained for the required time. The results of the test shall not show signs of deformation, change in length of ring nor any separation of ring from top assembly.

4.5.3 Paint adhesion test. The paint (primer and top coat) adhesion shall be tested in accordance with TT-C-490.

5. PACKAGING

5.1 Preservation and packing. None required.

5.2 Packing.

5.2.1 Commercial. The adapters shall be packed in accordance with ASTM-D3951.

5.3 Marking.

5.3.1 Commercial. Shipping marking shall comply with ASTM-D3951 and the following additional instructions. No shipping marking shall be placed directly on the adapters. 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, and date, name and address of manufacturer. If adapters are bundled, boxed or bulk-contained, the gross weight and quantity shall be included. The above information may be placed on bulk-containers or boxes by labeling or stenciling.

5.4 Shipping. When adapters 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 lots in transit.

6 NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. These metal adapters are intended for use with metal pallets when unitizing packaged ammunition containers.

6.2 Acquisition requirements. Acquisition documents must specify the following:

a. Title, number and date of this specification.
b. Type of adapter (see 1.2).
c. Applicable stock number.
d. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).
e. First article sample requirements. Contractual provisions shall require that the unit load test (as per MIL-STD-1660) will be performed at the U.S. Army Defense Ammunition Center and School USADACS), SMCAC-DEV, Savanna, IL 61074-9639.
f. Packaging requirements, if other than specified in Section 5.

g. Serialization requirements, if applicable.
h. Certificate of conformance for each lot of shipment of product.

6.3 Submission of alternative quality conformance provisions. Unless otherwise specified in the contract, proposed alternative quality conformance provisions will be submitted by the contractor for evaluation by the technical activity responsible for the preparation of this specification.

6.4 Submission of contractor equipment designs for approval. Submit copies of designs as required to: Commander, U.S. Army Armament Research, Development and Engineering Center, ATTN: SMCAR-QAR-I, Picatinny Arsenal, NJ 07806-5000. This address will be specified on the Contract Data Requirements List, DD Form 1423 in the contract.

6.5 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, U.S. Army Armament Research, Development and Engineering Center, ATTN: SMCAR-QAR-Q, Picatinny Arsenal, NJ 07806-5000. 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.

6.6 Subject term (key word) listing.

Ammunition
Cartridge
Container
Tank
Unitizing
Volcano Mines

6.7 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodian:
Army-AR

Preparing activity:
Army-AR

(Project 8140-A843)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER	2. DOCUMENT DATE (YYMMDD)
	MIL-A-70788A	5 February 1993

3. DOCUMENT TITLE: ADAPTER, METAL AND WOOD PALLET

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets if needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)	b. ORGANIZATION	
c. ADDRESS (Include Zip Code)	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON (If applicable)	7. DATE SUBMITTED (YYMMDD)

8. PREPARING ACTIVITY

a. NAME	b. TELEPHONE (Include Area Code)	
U. S. Army ARDEC Specifications And Standardization Office/Bldg. 6	(1) Commercial (201) 724-6675	(2) AUTOVON 880-6675
c. ADDRESS (Include Zip Code) ATTN: SMCAR-BAC-S Picatinny Arsenal, N. J. 07806-5000	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	