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INCH-POUND
MIL-DTL-7554G
22 JUNE 2003
SUPERSEDING
MIL-C-7554F
19 MAY 1993

# DETAIL SPECIFICATION

# CONTAINER KITS, AIRDROP

This specification is approved for use by all Departments and Agencies of the Department of Defense.

## 1. SCOPE

1.1 Scope. This specification covers a group of airdrop container kits required for use in the airdrop system.

1.2 Classification. Container kits for airdrop shall be of the following types and load capacities as specified. Specific components may be procured separately (see 6.2):

| Types | Load Capacity |
|---|---|
| A-7A, Sling | 500 pounds |
| A-21, Bag | 500 pounds |
| A-22, Bag | 2200 pounds |
| A-23, Container, High Altitude | 2200 pounds |

## 2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are cited in sections 3 and 4 of this specification. These lists do not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of these lists, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

Beneficial comments (recommendations, additions, deletions) and any pertinent data that may be of use in improving this document should be addressed to: Natick Soldier Center ATTN: AMSSB-RAD-AD(N), Natick, MA 01760-5017, using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A FSC 1670

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2.2.1 Specifications and standards. The following specifications and standards form a part of this document to the extent 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).

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-DTL-32075 - Label: For Clothing, Equippage, and Tentage (General Use)

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 40, Philadelphia, PA 19111-5094)

2.2.2 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

NATICK SOLDIER CENTER

| | |
|---|---|
| 11-1-2616 | - Container, High Altitude, A-23 Assembly |
| 51C6716 | - Container, Kit Assembly-Sling Type A-7A, 500 lb. Capacity |
| 51C6739 | - Container Kit Assembly Bag, Cargo, Aerial Delivery Type A-21 500 lb. Capacity |
| 50B7702 | - Container Kit Assembly Bag, Cargo, Aerial Delivery Type A-22 2200 lb. Capacity |

(Copies are available from the Natick Soldier Center, ATTN: AMSSB-RAD-AD(N) – CONFIGURATION MANAGER, Natick, MA 01760-5017.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein (except for related associated specifications or specification sheets), the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 First article. When specified (see 6.2), a sample shall be subjected to a first article inspection in accordance with 4.2.

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3.2 Materials. Materials shall conform to the requirements of the applicable Technical Data Package (TDP), to subsidiary specifications and standards applicable thereto and as specified herein.

3.2.1 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided the materials meet or exceed the operational requirements, and promote economically advantageous life cycle costs.

3.3. Construction. The construction shall conform in all respects to the applicable drawings and all subsidiary drawings pertaining thereto and as specified herein.

3.3.1 Type 301 stitching. Ends of all type 301 stitching shall be backstitched or overstitched not less than ½ inch in accordance with the required stitch pattern.

3.3.1.1 Repairs of type 301 stitching. Repairs of type 301 stitching shall be as follows:

a. When thread breaks or bobbin run-outs occur during the stitching, the stitching shall be repaired by restarting the stitching a minimum of 1 inch (1/2 inch for box-x and W-W stitching) from the end of the stitching. 1/

b. Thread breaks or two or more consecutive skipped or run-off stitches noted during inspection of the item (in-process or end item) shall be repaired by overstitching. The stitching shall start a minimum of 1 inch from the defective area, (1/2 inch for box-x and W-W stitching), continue over the defective area, and continue a minimum of 1 inch (1/2 inch for box-x and W-W stitching) beyond the defective area onto the existing stitching. Loose or excessively tight stitching shall be repaired by removing the defective stitching without damaging the materials, and restitching in the required manner. 1/

1/ When making the above repairs, the ends of the stitching are not required to be backstitched.

3.3.2 Automatic stitching. Automatic stitching machines may be used to perform any of the required stitch patterns provided the requirements for the stitch pattern, stitches per inch, and size and type of thread are met, and at least three or more tying, overlapping, or back stitches are used to secure the ends of stitching.

3.4 Cotton tape and webbing.

3.4.1 Wax-dipping. All ends of cotton tape and webbing, which will be exposed in the finished item, shall be dipped a minimum of ½ inch in a 50-50 mixture of beeswax and paraffin. During the dipping operation, the temperature of the wax mixture shall be maintained at 180°F ± 20°F.

3.4.2 Searing. All exposed ends of nylon webbing and cord shall be seared smooth and even.

3.5 Marking. Unless otherwise specified herein or on the drawings, all marking on container kits or components shall conform to type IV, class 11 of MIL-DTL-32075, except that fastness to

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accelerated laundering shall not apply. In lieu thereof, marking shall show fair fastness to weathering after 40 fading hours when tested in accordance with DDD-L-20.

3.6 Workmanship. All components and assemblies of the container kits shall be free from dirt, grease, oil or other foreign matter. External surfaces shall be free from sharp edges or burrs. Components shall not be fractured, cracked, buckled, loose, dented, missing, malformed or misaligned. Seams and stitching shall be free of needle damage (cuts or chews), omitted and unrelated stitching, open and broken seams and loose threads. The end item shall conform to the quality of product established by this specification.

## 4. VERIFICATION

4.1 Classification of Inspections. The inspection requirements specified herein are classified as follows:

a. First article inspection (see 4.2).

b. Conformance inspection (see 4.3).

4.2 First article inspection. First article inspection shall be performed on one complete container assembly, unless otherwise stated in the contract, when a first article sample is specified (see 3.1). The inspection shall include the examinations of 4.3.1, 4.3.2, 4.4, and 4.5. Any defect or nonconformance shall be cause for rejection of the first article.

4.3 Conformance inspection. Conformance inspections shall include the examinations of 4.3.1, 4.3.2, 4.4 and 4.5. Sampling plans and acceptance/rejection criteria for 4.4 and 4.5 shall be as specified in the contract or purchase order. Assemblies which fail the acceptance criteria shall be cause for rejection of the lot.

4.3.1 Component and material inspection. Components and materials shall be inspected in accordance with all of the requirements of reference documents unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.3.2 In-process inspection. Inspection of subassemblies shall be made to ascertain that construction details and dimensional requirements, which cannot be examined in the finished product, are in accordance with specified requirements. The Government reserves the right to exclude from consideration of acceptance any material or service for which in-process inspection has indicated nonconformance.

4.4 End item visual examination. The end items shall be examined for the defects listed in table I. Any nonconformance to the Technical Data Package (TDP) shall be classified as a defect.

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TABLE I. End Item Visual Defects

| Examine | Defect | Classification Major | Minor |
|---|---|---|---|
| Materials | Wrong color | | 201 |
| Construction and assembly | Any component missing, loose or not securely retained | 101 | |
| Cleanliness | Dirt, grease, oil, or foreign matter | | 202 |
| | Thread ends not trimmed throughout | | 203 |
| Stitches and stitching | Not type of stitch specified | 102 | |
| | Stitching pattern not as specified | 103 | |
| | One stitch per inch under minimum specified | | 204 |
| | Two or more stitches per inch under minimum specified | 104 | |
| | One stitch per inch over the maximum specified | | 205 |
| | Two or more stitches per inch over maximum specified | 105 | |
| | NOTE: Variation in the number of stitches per inch cause by the operator speeding up the machine and pulling fabric to sew over heavy places, heavy seams, or in turning corners shall be classified as follows: | | |
| | a. Within the major defect classification – Minor defect | | |
| | b. Within the minor defect classification – No defect | | |
| | Thread breaks and two or more consecutive skipped stitches not overstitched as specified | | 206 |
| | Ends of stitching not secured as specified | | 207 |
| | Any row of stitching missing | 106 | |
| | Needle damage (cuts or chews) | 107 | |
| | Stitch margin or gage not as specified | | 208 |
| | Stitching runoffs not restitched in accordance with the applicable stitch pattern | | 209 |

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TABLE I. End Item Visual Defects (cont'd)

| Examine | Defect | Classification Major | Classification Minor |
|---|---|---|---|
| Stitches and stitching (con't) | Loose tension, resulting in loose top or bobbin thread; or tight tension resulting in tightness or puckering of material at stitch line | | 210 |
| Cloth, webbing, tape, thread (as applicable) | Not type or size specified | 108 | |
| | Cut, hole, abrasion or frays, thin or weak area | 109 | |
| | Edge beaded or corded | | 211 |
| | Exposed ends not waxed or seared, as specified | | 212 |
| Hardware | Component fractured, malformed, bent or otherwise damaged; protective finish omitted; corroded areas, burrs or sharp edges | 110 | |
| | D-ring not assembled as specified | 111 | |
| | Snaphook not assembled as specified | | 213 |
| | Adaptor assembled with protruding lip exposed | | 214 |
| Plywood skid (when required) | Not grade or type specified | 112 | |
| | Surfaces not painted as required | 113 | |
| | Grain direction of top and bottom ply not as specified | 114 | |
| | Gaps and voids at edges and bevel not filled as specified | 115 | |
| | Plugged areas not sanded flush | | 215 |
| Identification marking (including U.S. and special marking) | Missing, illegible, incorrect, wrong color, improper location or not applied as specified | | 216 |

4.5 End item dimensional examination. The end items shall be examined for conformance to the dimensions specified on the drawings. Only those dimensions that can be evaluated without damaging or disassembling the end items shall be examined. Any dimension not within the specified tolerance shall be classified as a defect.

## 5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within

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the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

6.1 Intended use. The container kits are intended for use in the airdrop of miscellaneous equipment and bulky supplies from aircraft in flight to ground.

6.2 Acquisition requirements. Acquisition documents should specify the following:

a. Title, number, and date of this specification.
b. Type of airdrop container kit required (see 1.2).
c. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1).
d. When a first article is required (see 3.1).
e. Sampling plan (see 4.3).
f. Packaging requirements (see 5.1).
g. Components, when procured separately (see 6.3).

6.3 Components. The following components may be procured separately:

Quick release strap for: type A-21
Suspension webs for: type A-22 and A-23
Skids for: type A-22 and A-23
Covers for: type A-22 and A-23

6.4 Subject terms (key word) listing.

Air delivery
Equipment

6.5 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.

Custodians:
Army - GL2
Air Force - 99

Review Activities:
Air Force - 11

Preparing Activity:
Army - GL2

(Project 1670-1043)

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# 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**<br>MIL-DTL-7554G | **2. DOCUMENT DATE (YYYYMMDD)**<br>20030622 |
|---|---|---|

**3. DOCUMENT TITLE**
**Container Kits, Airdrop**

**4. NATURE OF CHANGE** *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as 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)<br>(1) Commercial<br>(2) DSN *(if applicable)* | **7.DATE SUBMITTED**<br>(YYYYMMDD) |

**8. PREPARING ACTIVITY**

| a. NAME | b. TELEPHONE *Include Area Code)* |
|---|---|
| Natick Soldier Center | (508) 233-4258 |
| c. ADDRESS *(Include Zip Code)*<br>AMSSB-RAD-AD(N), J. Riley<br>Natick, MA 01760-5017 | **IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:** |