

**T.O. 00-85B-3**

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**TECHNICAL MANUAL**

**HOW TO PACKAGE AIR FORCE SPARES**

Prepared By: Automated Technical Order System (ATOS)

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

Published under authority of the Secretary of the Air Force

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**1 DECEMBER 1993**  
**CHANGE 1 - 31 MAY 1999**

**LIST OF EFFECTIVE PAGES**

NOTE: The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

**Dates of issue for original and changed pages are:**

Original ..... 0..... 1 December 1993    Change..... 1..... 31 May 1999

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 54, CONSISTING OF THE FOLLOWING:

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## SECTION I

## INTRODUCTION

**1-1 PURPOSE.**

1-1.1 This technical order (TO) provides essential information for packaging selected items of supply. Fast packs, standard packs, or other special packaging instructions (SPIs), as specified, will protect the items during shipment, storage, and on-base handling. These packs are reusable and are designed for shipment and storage of depot repairable and other selected items. Although most "SPI packs" are comprised of drawings or narratives, "SPI packs" in the fast pack and standard pack programs are comprised only of the codified numbering system outlined in this TO. This makes fast packs and standard packs "SPI packs" in name only. They are called "SPI packs" in order for data systems to recognize them and transmit them to bases to support their reusable container programs in accordance with (IAW) AFI 24-202 (Preservation and Packing).

1-1.2 This TO assigns responsibility for implementation, use, and control of the "SPI pack" program.

1-1.3 This TO defines the numbering system applied to the fast pack and standard pack in relation to the method of preservation, type of package, and size of pack. Simple instructions for fabricating the standard packs are also defined.

1-1.4 This TO contains a table of equivalent materials (section V) so standard packs can be constructed using materials available locally. This permits the packer to use a variety of materials without a waiver from the prime Air Logistics Center (ALC).

1-1.5 This TO shows how packing and crating activities determine the correct packaging required for each item of supply subject to depot level repair.

**1-2 HOW TO USE THIS TECHNICAL ORDER (TO).**

1-2.1 The following is a description of the five sections in this document.

1-2.1.1 Section I (Introduction) gives the reason for this document and defines keywords and acronyms.

1-2.1.2 Section II (General) describes the commonalities between the fast and standard pack numbering systems and helps the packer to understand these coded numbers. It also gives the source for the microfiche national stock number (NSN)/SPI cross-reference listing.

1-2.1.3 Section III (General Packaging Requirements) covers the MIL-P-116 methods of preservation and specified materials for each. This section

describes the common characteristics between fast and standard packs. Figures 3-1 through 3-6 (Fast and Standard Pack Tape Methods for Closure) covers the four "tape methods" and illustrates each one.

1-2.1.4 Section IV (Detailed Requirements for Fast Packs) provides information unique to the fast pack and its numbering system. Several tables illustrate the four types of fast packs, their identification codes and dimensions. Other details include wrap, barrier, and desiccant requirements. All measurements are displayed in English and SI Metrics (see paragraph 1-4).

1-2.1.5 Section V (Detailed Requirements for Standard Packs) concerns details unique to the standard pack and its numbering system. The tables include container codes, sizes, and requirements for wraps, barriers, and desiccant. All measurements are displayed in English and SI Metrics.

**1-3 DEFINITIONS.**

1-3.1 Depot Repairable. An item that can economically be restored to serviceable condition by a depot level maintenance facility such as a Technology Repair Center (TRC) or a civilian contractor. Depot repairable items may be identified by the Expendability-Recoverability-Repairability Category (ERRC) codes designator, (i.e., XD1, XD2, ND2).

1-3.2 Fast Pack. A family of standard size, cushioned, reusable containers whose design permits shipment of a large variety of items within certain limits of size, weight, shape, and fragility. Fast packs are made in accordance with Federal Specification PPP-B-1672. The types of fast packs and their maximum bare item dimensions and item weight range for selecting items to be shipped and stored in fast packs are listed in section IV of this TO and in MIL-STD-2073-1, appendix D, table I.

1-3.3 Personal Computer Performance Oriented Packaging (DoD PC POP). A repository which contains test reports and the packaging requirements necessary to properly prepare hazardous material for storage and/or shipment.

1-3.4 Preservation. Application of protective measures including, cleaning, drying, preservative, protective wrapping, cushioning, barriers, and containers, when necessary.

1-3.5 Reparable Item. An item that is unserviceable but can be economically restored to serviceable condition.

1-3.6 Routing Identifier Code (RIC). The RIC is found in block "U" of DD FORM 1348-1, DoD SINGLE LINE ITEM, and block "16" of DD FORM 1348-1A, ISSUE RELEASE/RECEIPT DOCUMENT. It identifies the ALC that is

responsible for assigning the packaging requirements. Phone numbers for the ALC Packaging Management Offices are provided below as points of contact on packaging inquiries.

RIC	ALC	BASE	DSN PHONE #
FFZ	Sacramento	McClellan AFB CA	633-2856/4613
FGZ	Ogden	Hill AFB UT	458-4495/4497
FHZ	Oklahoma City	Tinker AFB OK	339-3544/7969
FLZ	Warner Robins	Robins AFB GA	468-3892/2771
FPZ	San Antonio	Kelly AFB TX	945-7225/7226

1-3.7 Selected Item. An item, usually depot repairable, is assigned to a fast pack, standard pack, or SPI by the ALC that has the Integrated Materiel Manager responsibility. The assignment is based on configuration, weight, size, and fragility of the item.

1-3.8 Serviceable Item. An item, new or used, that is in operating condition and meets performance specifications.

1-3.9 Special Packaging Instructions (SPI). The SPI provides detailed instructions for construction of a package for an item that requires maximum protection. It usually consists of a drawing that details the cushioning, blocking, bracing, shock mounts, tie-down devices, etc. This is referred to as a SPI drawing. A SPI may also describe the required packaging by use of written instructions and specification references. This is referred to as a narrative SPI. This TO serves as a generic SPI for fast and standard packs although fast and standard packs do not require drawings or narratives to describe the item (reference paragraph 1-1.1). The SPI numbering system is explained in section II.

1-3.10 Standard Pack. A pack for which the packaging components, including the shipping container, have been standardized as to material and size. The cushioning in the standard pack is not bonded to the container walls. Items selected for standard packs are not very susceptible to damage from shock and vibration and require less cushioning protection than do those in fast packs.

Because many different items are assigned to each standard pack, the reusability is increased. The types of standard packs are listed in section V of this TO, appendix C, table 1 of MIL-STD-2073-1, and AFI 24-202.

**1-4 SI METRICS.**

1-4.1 This revision introduces the metric system to the fast and standard pack system. This system of measurement is known as the International System of Units (Le Systeme International d'Unites) or SI Metrics. According to Section 5164 of Public Law 100-418 (Omnibus Trade and Competitiveness Act of 1988), it is now considered to be the preferred system of measurement in the United States.

1-4.2 Public Law 100-418 amends Public Law 94-168 (Metric Conversion Act of 1975) and declares that it is the policy of the United States: "to designate the metric system as the preferred system of weights and measures for United States trade and commerce;" and "to require that each Federal agency, by a date certain and to the extent economically feasible by the end of the fiscal year 1992, use the metric system in its procurements, grants, and other business-related activities, except to the extent that such use is impractical or likely to cause significant inefficiencies or loss of markets to United States firms, . . ."

1-4.3 This document maintains the English measurements from the previous revisions, but now includes SI Metrics measurements beside each one. The SI Metrics abbreviations used in this document are centimeter (cm), kilogram (kg), and liter (L). If the user prefers the unit of "millimeter" (mm) in place of cm, the conversion is as simple as moving the decimal one place to the left. The tables in sections IV and V are displayed as "inch (cm)" and "lb (kg)".

## 1-5 RESPONSIBILITIES.

1-5.1 This TO will be used to number, identify, and pack repairable items requiring fast packs or standard packs.

1-5.2 It applies to all Air Force activities who pack items, particularly repairable items. It serves as a consolidated instruction/requirements reference document for Air Force base packaging operations.

1-5.3 Air Force Materiel Command (AFMC) responsibilities are as follows:

1-5.3.1 Headquarters AFMC Packaging Policy will provide overall surveillance of the Spares Packaging Standardization (SPS) program and will assure that the maximum number of line items are assigned to the fast pack, standard pack, and SPI systems. New fast pack and standard pack designs or sizes recommended for inclusion in the SPS program must be approved by HQ AFMC Packaging Policy.

1-5.3.2 The Air Force Packaging Evaluation Activity (AFPEA), will test and evaluate packs which are proposed for the SPS program and will recommend design and/or material changes to improve cushioning characteristics or to promote standardization.

1-5.4 Major Commands will establish procedures to assure the subordinate commands:

1-5.4.1 Maintain sufficient stocks of fast and standard packs and SPI containers to support the mission.

1-5.4.2 Establish programs for reclamation, storage and reuse of reusable containers and packaging materials.

1-5.4.3 Comply with SPI procedures.

1-5.4.4 Request a packaging waiver from the managing ALC when the prescribed SPI pack is not available for shipment.

1-5.5 Air Logistics Centers will ensure that:

1-5.5.1 Each pack is meant to be reused to return the unserviceable item to a depot for repair. Typically, as the serviceable item is received and removed from the pack, the unserviceable item is placed in the pack. This operation is often performed by the base Maintenance activity.

1-5.5.2 The SPI pack is in good condition and capable of providing the required protection during shipment and storage.

1-5.5.3 The item is correctly preserved.

1-5.5.4 The item is properly positioned in the pack.

1-5.5.5 The item is correctly identified.

1-5.5.6 The pack is properly marked and closed.

1-5.6 When items are received without the proper pack, an AF FORM 451, REQUEST FOR PACKAGING SERVICE, is required for local fabrication of new containers and to provide management information to improve container reclamation (reference AFI 24-202).



## SECTION II

### GENERAL

#### 2-1 NUMBERING SYSTEM.

2-1.1 This section explains the numbering system used for packaging items for off-base shipment and storage. It also tells where and how to find all the SPI data necessary to do the packaging.

2-1.2 Items that are ERRC coded as depot reparable will have a SPI, whether drawing, narrative, or Fast Pack/Standard Pack SPI number. This is the foundation of the Air Force Reusable Container Program. NSN to SPI cross-referencing ensures the proper reusable container is used for each reparable item (reference paragraph 2-1.5). Other selected items that are not depot reparable can also be covered by SPI's based on peculiarities/fragility of the item. Instructions for packaging items not covered by a SPI may be found in MIL-STD-2073-1. Assistance in determining how to pack items covered by SPI's may be found in the ALC having area assistance or prime responsibility. Do not ship an item when there is doubt that it is properly protected. It is better to hold up a shipment until the item is protected than to ship it and risk damage.

2-1.3 Narrative or Discrete SPI. The first position of a narrative or discrete SPI is an alpha provided by the service or agency, (A = Army, D = DLA, F = Air Force, M = Marine Corps, N = Navy). Positions 2-10 usually include the National Item Identification Number (NIIN) of the first NSN for which it was designed.

Example: SPI N000281457 is designated for item NSN 2840-00-028-1457PL. Similar items such as NSN 2840-00-040-4132PL are assigned to the same SPI and have the same SPI number (SPI N000281457). Some SPIs are only for one NSN, others may include hundreds of NSNs. The SPI drawing or narrative describes how to package the item with words or drawings.

2-1.4 Fast and Standard Packs. The first position of fast pack and standard pack SPI numbers is an alpha provided by the service or agency (reference paragraph 2-1.3 above). Positions 2-6 are always numeric zeros, and used as placeholders to accommodate packaging data system requirements. The next four positions (7-10) are alphanumeric and are made up with codes that provide the information needed to pack the item (reference sections IV and V), though fast packs

always have an "X" in position 8. Understanding the meaning of each code is the key to using fast and standard packs. Fast pack numbers are sometimes abbreviated, showing only the last four positions. The following steps will lead the packer through the process of interpreting the SPI numbers and the fast and standard pack codes:

2-1.4.1 Locate the SPI number in block "U" of DD FORM 1348-1 or block "16" of DD FORM 1348-1A.

2-1.4.2 Identify the kind of SPI that is needed to pack the item.

Examples:

- (a) SPI N001234567 = Discrete or Narrative.
- (b) SPI A000004XA1 = Fast Pack.
- (c) SPI D000001D38 = Standard Pack.

2-1.4.3 Find the document that tells (exactly) how to pack the item.

2-1.4.3.1 Discrete or narrative SPI instruction sheets and drawings are on file at the base packaging activity.

2-1.4.3.2 Fast pack data and instructions are found in sections III and IV of this TO.

2-1.4.3.3 Standard pack data and instructions are found in sections III and IV of this TO.

2-1.4.4 Locate the correct reusable pack by reading the SPI number on the containers in reclamation. For fast packs only, the last four positions might be shown on the container.

2-1.5 The SPI number will automatically print in block "U" of the DD FORM 1348-1 or block "16" of DD FORM 1348-1A shipping documents under the heading Freight Classification Nomenclature. Do not ship depot reparable Air Force items without the proper SPI pack. Depot reparable items identified by a "D" in the ERRC code without a SPI number on the shipping document will be checked against the SPI stock number cross-reference list. If a SPI is listed, it must be used. If a SPI is not listed, request packaging instructions from the responsible ALC Packaging Management Office. When requesting packaging instructions from an ALC, provide the following information: item NSN, nomenclature, weight, dimensions, and unusual characteristics.

2-1.6 The quarterly SPI/NSN cross-reference list is produced on microfiche, and identified by product control numbers (PCNs):

- A-D035T-801-QT-L09 (SPI/NSN)
- A-D035T-802-QT-L09 (NSN/SPI)

The 801 lists SPI's in numerical sequence with the corresponding NSN. The 802 lists NSNs in numerical sequence with the corresponding SPI

number. These microfiche products are available to DoD activities upon request submitted to:

649 ABG/LGTPD  
5851 F Avenue  
Hill AFB, UT 84056-5713

Microfiche products are prepared/distributed quarterly, making the previous quarter publication obsolete.

## SECTION III

### GENERAL PACKAGING REQUIREMENTS

#### 3-1 REQUIREMENTS.

The requirements defined in this section apply to all items packaged in fast and standard packs. For more detailed requirements peculiar to fast pack packaging see section IV. Detailed requirements for standard packs are found in section V.

3-1.1 Preservation. The seventh position of fast and standard pack numbers specifies the MIL-P-116 method of preservation required for the item. Corresponding numbers and methods as well as the selection of material for level A preservation are found in figures 5-2 through 5-5 and in the following information.

*Table 3-1. Preservation Method Indicator for Fast and Standard Packs*

Seventh Position Code	MIL-P-116 Method of Preservation	Wrap	Bag	Desiccant
1	Method III, (Physical and Mechanical protection only)	SEE NOTES BELOW		
2 or 6	Method IC-I, (Grease proof waterproof bag, heat-sealed) Method IC-I, (Grease proof waterproof bag, heat-sealed with preservative)	PPP-C-795 PPP-C-1842 MIL-B-121	MIL-B-121	
3 or 7	Method IA-8, (Water vapor proof bag, heat-sealed) Method IA-8, (Water vapor proof bag, heat-sealed with preservative)	L-P-378 PPP-C-795 PPP-C-1842 MIL-B-121	MIL-B-131 MIL-B-22191, Type I MIL-B-81705, Type I	
4	Method II-C, (Water vapor proof bag with desiccant, humidity indicator, heat-sealed)	L-P-378 PPP-C-795 PPP-C-1842 MIL-B-121 MIL-P-17667	MIL-B-131 MIL-B-22191 Type I MIL-B-81705, Type I	MIL-D-3464
5	Method I, (Preservative coating with grease proof wrap as required)	MIL-B-121 Grade A or C	Bag may be used, not required	
9	Method IA-8, (Electrostatic discharge (ESD) protection) (See *NOTES 1, 2, & 3)	PPP-C-1842, Type III MIL-B-81705, Type II	MIL-B-81705, Type I	

## NOTE

1. Code 9 items must use antistatic cushioning.
2. These items must be packaged by personnel trained to work with ESD sensitive (ESDS) items in an ESD protected area (reference TO 00-25-234, section VII). All items having a "3" in the "Type of Cargo" code block "G" on the DD FORM 1348-1 or block "8" on the DD FORM 1348-1A, are ESDS and handled as such. (Reference table 4-2 and paragraph 5-3 of this TO for appropriate materials). ESDS items must be protected at all times to prevent damage or destruction to the item.
3. All items that are designated as HAZARDOUS on the DD FORM 1348-1 in block "G" (Type of Cargo) or in block "8" of DD FORM 1348-1A shall be packaged and marked for shipment in accordance with the DoD PC POP Data Data Base, CFR 49, AFI 24-204 (formerly AFR 71-4), International Civil Aviation Organization (ICAO), or International Maritime Dangerous Goods code (IMDG).

3-1.2 Cleaning and Drying. Clean in accordance with MIL-P-116, C-1 (any applicable process) and any suitable drying process.

3-1.3 Preservative. Selection and application shall conform to the requirements of MIL-P-116.

3-1.4 Container. For both fast and standard packs, use the specified container and place the item in the center of the container with an equal amount of cushioning all around. The item must be wrapped sufficiently with PPP-C-795 (cellular plastic film), PPP-C-1752 (unicellular polyethylene), PPP-C-1797 (low density, unicellular polypropylene foam). In simplest terms, the wrapped item should fill the cavity. Items are not to be immobilized so tightly that shock and vibration will be transmitted to the item (reference paragraph 3-1.10). A properly placed item will move in the cavity when force is applied to the exterior container or to the item.

The items contact with the cushioning should compress the convoluted peaks of a fast pack no more than their normal depth and no less than a .25" (.635 cm) for standard pack cushioning (reference sections IV and V, and paragraphs 4-1.2 and 5-1.3). Do not use polystyrene loose-fill as cushioning.

3-1.5 Item Protrusions. If the item is preserved by a method that requires a heat sealed bag, wrap and cushion knobs, handles or other pointed parts to prevent puncture of the barrier. If the item has knobs, handles or other thin parts that could be bent or broken during rough handling, make rolls out of wrapping or cushioning material and tape the rolls around those fragile protrusions to protect them.

3-1.6 Desiccant. If desiccant is required, place the bags of desiccant so they cannot be broken during rough handling. If it is not possible to place the bags in a protected area, place them in cloth bags and protect the bags with cushioning as in paragraph 3-1.4. Desiccant must always be placed on the inside of the sealed barrier bag and should never be placed in direct contact with the item as it could create a chemical reaction resulting in damage to the item. Any wrap may be placed between the item and the desiccant to separate them.

3-1.7 Marking. Shall be in accordance with MIL-STD-129.

3-1.8 Relaxed Preservation Requirements. Level C preservation may be used for: (1) Unserviceable items being shipped to depots or contractors for repair may be preserved to Method III of MIL-P-116 if shipped from bases within CONUS or from overseas bases by air if the preservation code is 1 through 7. If shipped by surface from overseas bases, the unserviceable item shall be preserved to the method of preservation specified for the same item in serviceable condition. (2) If the item is greasy, rusting, or dirty. However, a grease proof wrap or bag is required as minimum protection to prevent soiling of the cushioning. (3) When the preservation code is 9, ESD protection for level A preservation is required regardless of the condition of the material, with the following exception: barrier bags for unserviceable items with preservation code 9 or type cargo code 3 may be folded shut and held closed with ESD caution labels instead of heat sealing if heat sealing equipment is not available. Do not use tape or staples on barriers for ESDS items.

3-1.9 Preservative Requirements. When the seventh digit of the Fast Pack or Standard Pack number is 5, 6, or 7, the preservatives most frequently used are:

3-1.9.1 P-2, thin film preservative (soft film, cold application). Reference table 5-4 for NSN.

3-1.9.2 P-9, very light preservative oil (cold application). Reference table 5-4 for NSN.

3-1.9.3 Operational fluids in all fuel devices, such as fuel assemblies, tanks/cells, controls, pumps, etc identified as hazardous by the type cargo code, will

be drained and purged, and all openings/fittings will be sealed in accordance with the applicable TO as required (reference AFI 24-204). Reference MIL-P-116 for complete list of preservatives and preservative application criteria.

**3-1.10 Authorized Deviations.** SPI packs (or alternate containers identified by an ALC waiver number in the lower right hand portion of the identification side of the container) may be reused to ship or store items having the same NSN as the item received in the container (AFI 24-202). Any empty space between the wrapped item and the cavity surfaces will be filled with cushioning. If the right cushioning is not available, any soft, clean, non-dusting cushioning material may be used. Reclaimed pieces of foam cushioning from SPI containers, fast packs, or standard packs may be used. Reclaimed foam-in-place cushioning should not be used in fast packs.

If the specified size is not available for a transportation priority 1 and 2 shipment, the next larger size of the Type I (Verticle Star Pack) or Type II (Folding Convuluted Pack) may be used as long as there is no decrease in any of the container dimensions. The item must be wrapped sufficiently to build up the item so it fills up the cavity (reference paragraph 3-1.4).

## **3-2 CLOSURE, SEALING, REINFORCEMENT, AND OPENING.**

**3-2.1** Closure, sealing, and reinforcement for storage and shipment will be accomplished as required by PPP-B-636 and PPP-B-1672, with some relaxed requirements depending on the level of preservation specified for the item. Adhesives will not be used to close fast packs or standard packs. The following guidelines give the preferred method for each fast and standard pack as well as the level of packing they will satisfy: (1) The closure method prevents the container from opening. (2) Sealing prevents the entry of water and may also satisfy the closure requirements. (3) Reinforcement

strengthens the container and may also satisfy the closure requirement. Only in rare cases will all three methods be used. Usually one method is all that is needed to complete the pack. Reference figures 3-1 through 3-6 for specific details.

**3-2.2** Do not use staples, stitches, or glue to make the final closure of fast or standard packs. This ruins the container for reclamation and reuse. Remove dust, dirt and grease from the container prior to taping.

**3-2.3** Do not strip off labels or tape when opening reusable containers. This delaminates the box and reduces the serviceable life of the container. Carefully cut open taped container along the tape line. Labels should be obliterated and never peeled off (AFI 24-202).

**3-2.4** Use the following procedures in figures 3-1 through 3-6 to find the required tape method for closing, sealing, and reinforcing: Determine the type of fast or standard pack container and level of pack required and use one of the appropriate tape methods described. The tape method used will depend on the level of pack required. For shipments of unserviceable repairable items to depots or contractors, use level C pack closure.

**3-2.5** When automatic strapping equipment is available, ASTM D 3950 nonmetallic strapping may be used instead of PPP-T-97, pressure sensitive adhesive, filament reinforced tape. The number of ASTM D 3950 straps and their location will be the same as specified for PPP-T-97 tape in Tape Method 4 of this table. The width and thickness of ASTM D 3950 straps must conform to table V of PPP-B-636 and will vary depending on the weight of the container and contents. As an exception to the requirements PPP-B-636, Type II fast packs under 15 pounds (6.75 kg) may be closed with non-metallic strapping at least 1/4" (.635 cm) wide and 0.014" (.036 cm) thick having a minimum breaking strength of 145 pounds (65.25 kg) for the strapping and 110 pounds (49.5 kg) for the closure.

LEVEL C PACK CLOSURE

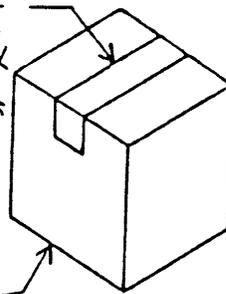
Min. 2" (5.08 cm) wide PPP-T-60, or A-A-884 or PPP-T-76 tape.

Min. 2" (5.08 cm)

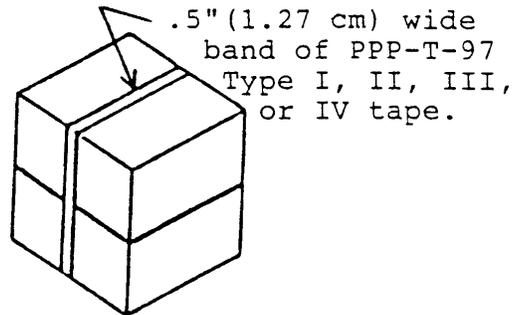
Tape Method 1

This closure also applies to standard packs.

Type I



Style A



Styles B & C

H9400019

**Tape Method 1:** Close with minimum 2" (5.08 cm) wide tape conforming to PPP-T-60, A-A-884, PPP-T-76. The tape shall be centered over the seam formed by the closure of the outer flaps of the top and bottom and shall extend down over the end panels not less than 2" (5.08 cm). When the bottom flaps are already closed by an approved method such as stapling or gluing, no additional taping on the bottom is required.

Figure 3-1. Type I Fast Packs/Level "C" Pack and Standard Packs/Level "C" Pack

Level B Pack Closure

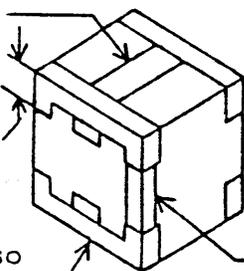
Min. 2" (5.08 cm) wide PPP-T-60 Type III, or PPP-T-76 tape.

Min. 2" (5.08 cm)

Tape Method 2

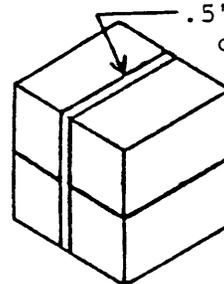
This closure also applies to standard packs.

Type I



Style A

Mfr. Joint



Styles B & C

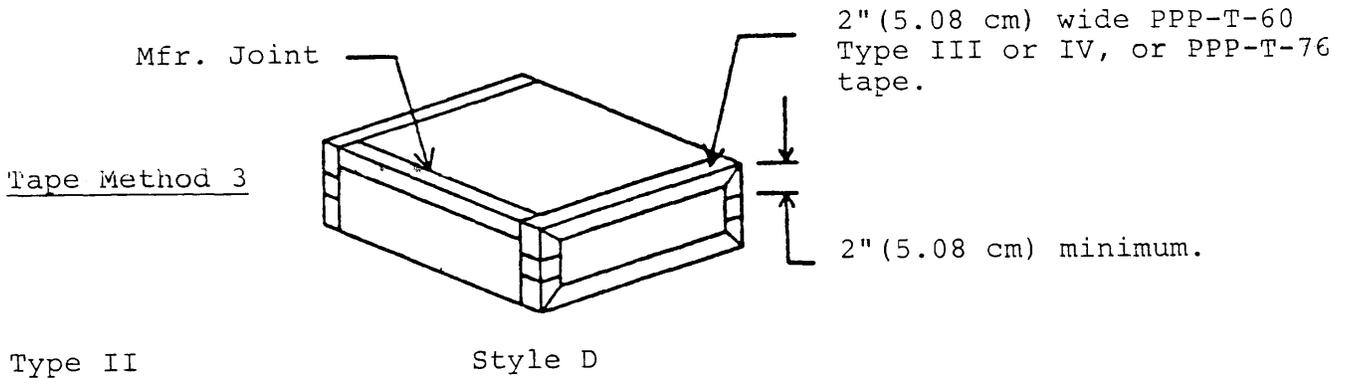
.5" (1.27 cm) wide band of PPP-T-97 Type IV tape.

H9400020

**Tape Method 2:** Seal with minimum 2" (5.08 cm) wide tape conforming to PPP-T-76 or PPP-T-60, Type III or IV, applied over all seams, corners, and manufacturer's joints. The tape shall be centered over the seams and joints and shall extend over all the corners and edges of the box a minimum of 2" (5.08 cm) onto the adjacent box panels. Tape shall be applied over the lengthwise seam of the outer flaps, sealing the opening of the box and over the manufacturer's joint prior to tape being applied to the edge seams of the box. The tape applied to the manufacturer's joint shall cover the joint but not extend over the corners of the box onto the adjacent panels. This method also serves as the closure.

Figure 3-2. Type I Fast Packs/Level "B" Pack and Standard Packs/Level "B" Pack

Level B Pack Closure

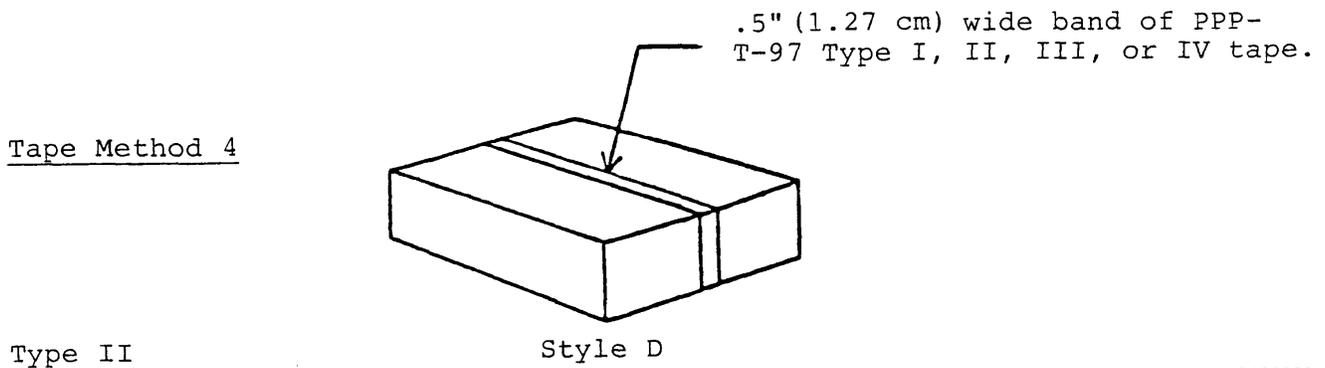


H9400021

**Tape Method 3:** Seal all open seams and manufacturer's joints with 2" (5.08 cm) wide tape conforming to either PPP-T-76 or PPP-T-60, Type III or IV. This method also serves as the closure.

*Figure 3-3. Type II Fast Packs/Level "B" Pack*

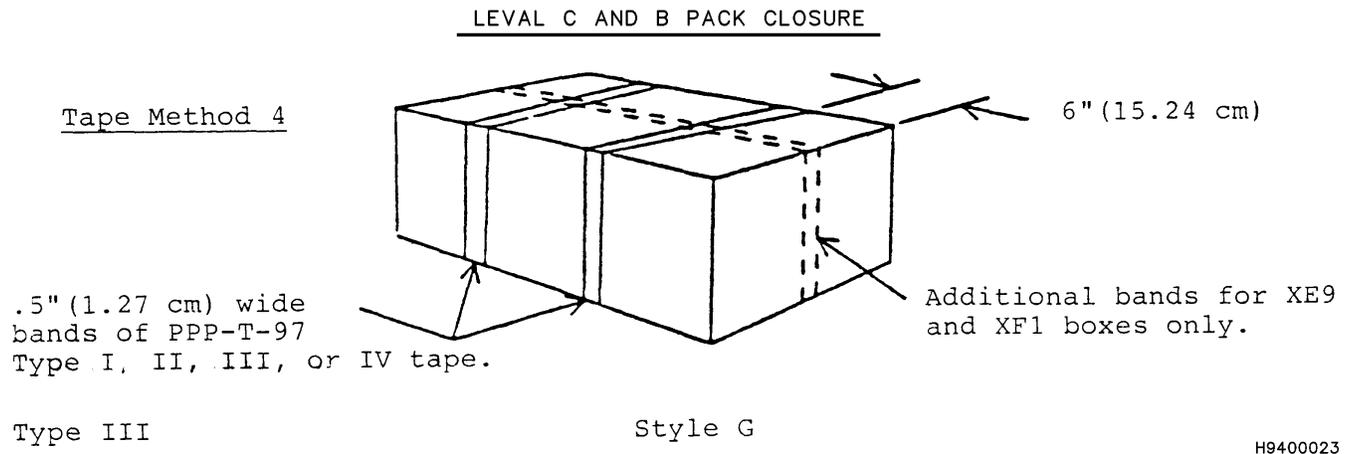
Level C Pack Closure



H9400022

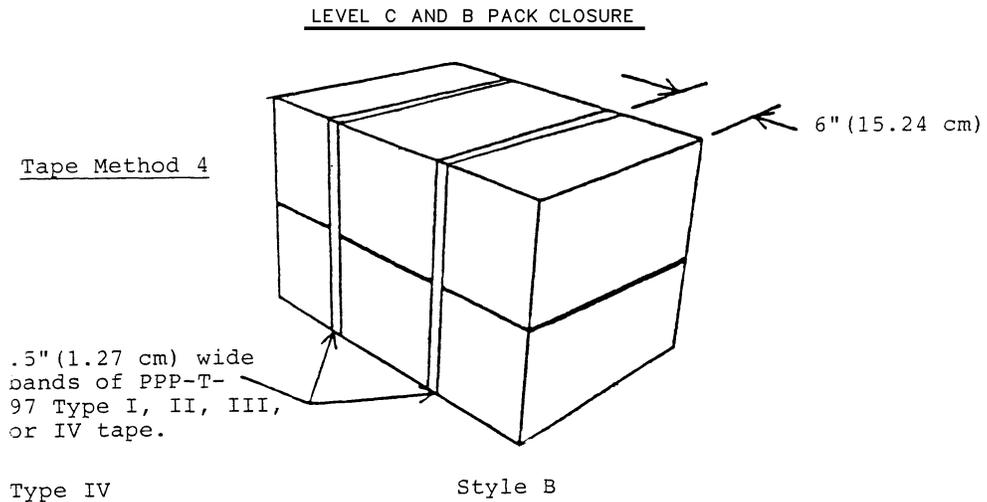
**Tape Method 4:** Reinforce with full encircling bands of 0.5" (1.27 cm) wide tape conforming to PPP-T-97, Type I, II, III, & IV. For Type II fast packs, center the tape lengthwise over the top, bottom, and ends. Only one band is required.

*Figure 3-4. Type II Fast Packs/Level "C" Pack*



**Tape Method 4:** For Type III fast packs, reinforce with two full encircling bands of 0.5" (1.27 cm) wide tape conforming to PPP-T-97, Type I, II, III, & IV. Position the bands 6.0" (15.24 cm) from the ends over the top, bottom, and sides. Add one lengthwise band over the top, bottom, and ends for XE9 and XF1 fast packs. Level B packs require the PPP-T-97, Type IV. This method also serves as the closure, sealing is not required.

Figure 3-5. Type III Fast Packs/Levels "C" and "B"



**Tape Method 4:** For Type IV fast packs, reinforce with two full encircling bands of 0.5" (1.27 cm) wide tape conforming to PPP-T-97, Type I, II, III, & IV. Position the bands 6.0" (15.24 cm) from the ends over the top, bottom, and sides. Level B packs require the PPP-T-97, Type IV tape. This method also serves as the closure, sealing is not required.

Figure 3-6. Type IV Fast Packs/Levels "C" and "B"

## SECTION IV

### DETAILED REQUIREMENTS FOR FAST PACKS

#### 4-1 CONTAINER.

4-1.1 The four types of fast packs are listed below this paragraph. The construction and sizes of each type are detailed in PPP-B-1672. The fast pack numbering system is detailed in figure 4-1, and the four types are identified in figure 4-2 of this TO. Table 4-1 provides dimensions of prescribed wraps and barrier bags as well as the recommended units of desiccant (reference also paragraph 3-1.6). Preformed MIL-B-117 bags may be used. Tables 4-2 through 4-5 provide references to the item weight/range, bare item maximum/minimum dimensions, maximum shock (G's) transmitted to item, container dimensions and cube, and NSN's for fast packs. Tables 4-2 through 4-5 are used by bases in selecting the proper fast pack for shipment of items not covered by a SPI.

The four types of fast packs are:

- Type I (Vertical Star Pack)
- Type II (Folding Convoluted Pack)
- Type III (Telescopic Encapsulated Pack)
- Type IV (Horizontal Star Pack)

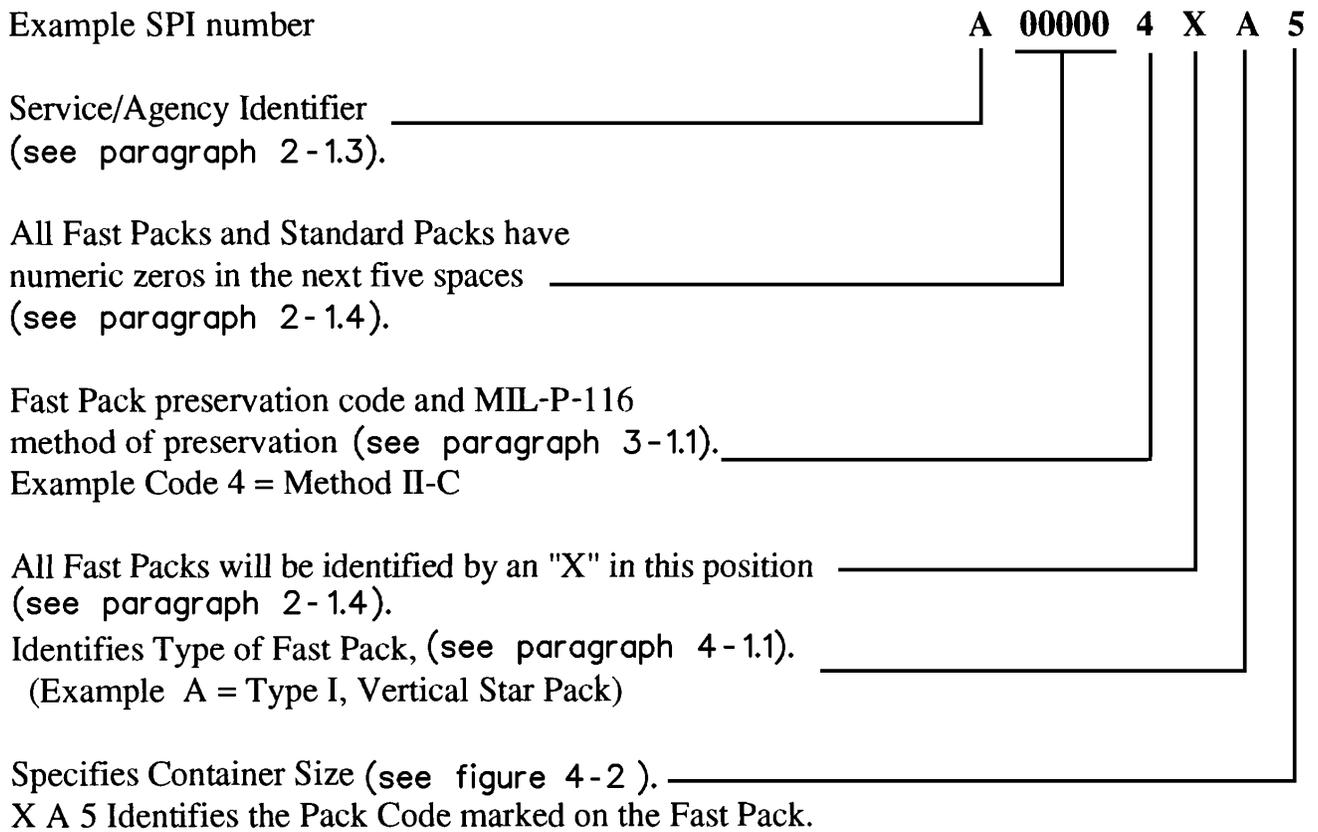
4-1.2 Use the specified container and place the items in the center of the container with an equal amount of cushioning on all sides.

4-1.3 Table 5-4 provides a reference to specification materials that may be used with fast packs.

#### 4-2 AUTHORIZED DEVIATIONS.

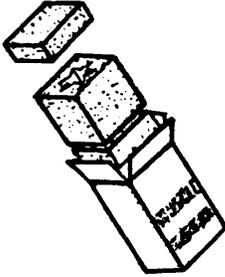
4-2.1 If the specified size is not available for a transportation priority 1 or 2 shipment, the next larger size of the Type I or Type II fast pack may be used as long as there is no decrease in any of the container dimensions.

**FAST PACK**

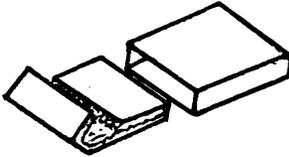


H9400025

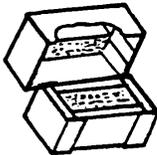
Figure 4-1. Fast Pack Numbering System

**Vertical Star Pack****Fast Pack  
Code****Dimensions  
in (cm)**

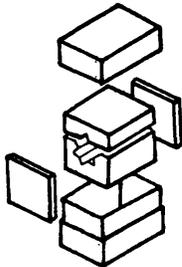
XA1	6 x 6 x 10	(15.24 x 15.24 x 25.40)
XA2	8 x 8 x 12	(20.32 x 20.32 x 30.48)
XA3	10 x 10 x 12	(25.40 x 25.40 x 30.48)
XA4	12 x 12 x 14	(30.48 x 30.48 x 35.56)
XA5	12 x 12 x 18	(30.48 x 30.48 x 45.72)
XA6	14 x 14 x 16	(35.56 x 35.56 x 40.64)

**Folding Convoluted Pack**

XC1	6 x 5 x 2.5	(15.24 x 12.70 x 6.35)
XC2	6 x 5 x 3.5	(15.24 x 12.70 x 8.89)
XC3	9 x 6 x 2.5	(22.86 x 15.24 x 6.35)
XC4	9 x 6 x 3.5	(22.86 x 15.24 x 8.89)
XC5	12 x 8 x 2.5	(30.48 x 20.32 x 6.36)
XC6	12 x 8 x 3.5	(30.48 x 20.32 x 8.89)
XC7	18 x 12 x 2.5	(45.72 x 30.48 x 6.36)
XC8	18 x 12 x 3.5	(45.72 x 30.48 x 8.89)
XC9	10 x 10 x 3.5	(25.40 x 25.40 x 8.89)
XD1	13 x 13 x 3.5	(33.02 x 33.02 x 8.89)
XD2	16 x 16 x 3.5	(40.64 x 40.64 x 8.89)
XD3	24 x 16 x 3.5	(60.96 x 40.64 x 8.89)

**Telescoping  
Encapsulating Pack**

XE1	30 x 16 x 14	(76.20 x 40.64 x 35.56)
XE2	32 x 12 x 14	(81.28 x 30.48 x 35.56)
XE3	24 x 14 x 14	(60.96 x 35.56 x 35.56)
XE4	20 x 14 x 9	(50.80 x 35.56 x 22.86)
XE5	25 x 14 x 14	(63.50 x 35.56 x 35.56)
XE6	32 x 18 x 16	(81.28 x 45.72 x 40.64)
XE7	24 x 18 x 16	(60.96 x 45.72 x 40.64)
XE8	26 x 9 x 9	(66.04 x 22.86 x 22.86)
XE9	34 x 24 x 18	(86.36 x 60.96 x 45.72)
XF1	30 x 27 x 14	(76.20 x 68.58 x 35.56)

**Horizontal Star Pack**

XG1	20 x 14 x 14	(50.80 x 35.56 x 35.56)
XG2	22 x 16 x 16	(55.88 x 40.64 x 40.64)

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Figure 4-2. Fast Pack Sizes

Table 4-1. Fast Pack Wraps, Bags, and Desiccant Units (As Required)

**FAST PACK****Type I - Vertical Star Pack**

	Wrap	Barrier Bags		Desiccant
	<u>*NOTE 1</u>	<u>*NOTE 2</u>	<u>*NOTE 3</u>	<u>*NOTE 4</u>
XA1	14.0 x 11.0 (35.56 x 27.94)	10.5 x 9.0 (26.67 x 22.86)	11.5 x 9.0 (29.21 x 22.86)	3
XA2	18.0 x 14.0 (45.72 x 35.56)	13.5 x 11.0 (34.29 x 27.94)	14.5 x 11.0 (36.83 x 27.94)	4
XA3	22.0 x 13.0 (55.88 x 33.02)	12.5 x 13.0 (31.75 x 33.02)	13.5 x 13.0 (34.29 x 33.02)	4
XA4	26.0 x 16.0 (66.04 x 40.64)	15.5 x 15.0 (39.37 x 38.1)	16.5 x 15.0 (41.91 x 38.1)	6
XA5	26.0 x 18.0 (66.04 x 45.72)	17.5 x 15.0 (44.45 x 38.1)	18.5 x 15.0 (46.99 x 38.1)	8
XA6	30.0 x 19.0 (76.20 x 48.26)	18.5 x 17.0 (46.99 x 43.18)	19.5 x 17.0 (49.53 x 43.18)	8

**Type II - Folding Convoluted Pack**

XC1	13.0 x 8.5 (33.02 x 21.59)	9.0 x 7.0 (22.86 x 17.78)	10.0 x 7.0 (25.4 x 17.78)	3
XC2	15.5 x 9.5 (39.37 x 24.13)	10.0 x 8.0 (25.4 x 20.32)	11.0 x 8.0 (27.94 x 20.32)	3
XC3	15.5 x 11.0 (39.37 x 27.94)	12.0 x 8.0 (30.48 x 20.32)	13.0 x 8.0 (33.02 x 20.32)	4
XC4	17.5 x 12.0 (44.45 x 30.48)	13.0 x 9.0 (33.02 x 22.86)	14.0 x 9.0 (35.56 x 22.86)	4
XC5	19.5 x 14.0 (49.53 x 35.56)	15.0 x 10.0 (38.1 x 25.4)	16.0 x 11.0 (40.64 x 27.94)	5
XC6	21.5 x 15.0 (54.61 x 38.1)	16.0 x 11.0 (40.64 x 27.94)	17.0 x 11.0 (43.18 x 27.94)	6
XC7	27.5 x 20.0 (69.85 x 50.8)	21.0 x 14.0 (53.34 x 35.56)	22.0 x 14.0 (55.88 x 35.56)	7
XC8	29.5 x 21.0 (74.93 x 53.34)	22.0 x 15.0 (55.88 x 38.1)	23.0 x 15.0 (58.42 x 38.1)	8
XC9	25.5 x 13.0 (64.77 x 33.02)	14.0 x 13.0 (35.56 x 33.02)	15.0 x 13.0 (38.1 x 33.02)	6
XD1	31.5 x 16.0 (80.01 x 40.64)	17.0 x 16.0 (43.18 x 40.64)	18.0 x 16.0 (45.72 x 40.64)	7
XD2	37.5 x 19.0 (95.25 x 48.26)	20.0 x 19.0 (50.8 x 48.26)	21.0 x 19.0 (53.34 x 48.26)	8
XD3	29.0 x 39.0 (73.66 x 99.06)	22.0 x 39.0 (55.88 x 99.06)	22.0 x 39.0 (55.88 x 99.06)	8

Table 4-1. Fast Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

Type III - Telescoping Encapsulated Pack

	Wrap <u>*NOTE 5</u>	Barrier Bags <u>*NOTE 6</u>	Desiccant <u>*NOTE 7</u>
XE1	42.0 x 38.0 (106.68 x 96.52)	23.0 x 38.0 (58.42 x 96.52)	24
XE2	34.0 x 37.0 (86.36 x 93.98)	18.0 x 38.0 (45.72 x 96.52)	20
XE3	34.0 x 28.0 (86.36 x 71.12)	18.0 x 30.0 (45.72 x 76.2)	16
XE4	34.0 x 24.0 (86.36 x 60.96)	18.0 x 30.0 (45.72 x 76.2)	16
XE5	30.0 x 22.0 (76.2 x 55.88)	15.0 x 25.0 (38.1 x 63.5)	12
XE6	50.0 x 37.0 (127.0 x 93.98)	23.0 x 38.0 (58.42 x 96.52)	24
XE7	50.0 x 31.0 (127.0 x 78.74)	27.0 x 31.0 (68.58 x 78.74)	24
XE8	22.0 x 29.0 (55.88 x 73.66)	15.0 x 25.0 (38.1 x 63.5)	12
XE9	62.0 x 39.0 (157.48 x 99.06)	32.0 x 44.0 (81.28 x 111.76)	36
XF1	65.0 x 35.0 (165.1 x 88.9)	32.0 x 36.0 (81.28 x 91.44)	32

Type IV - Horizontal Star Pack

	<u>*NOTE 8</u>		
XG1	26.0 x 22.0 (66.04 x 55.88)	17.0 x 26.0 (43.18 x 66.04)	12
XG2	26.0 x 22.0 (66.04 x 55.88)	19.0 x 29.0 (48.26 x 73.66)	16

\*NOTE 1: L-P-378 or MIL-B-121 with pres. code 1 - 7, and PPP-C-1842, Type III or MIL-B-81705, Type II with pres. code 9.

\*NOTE 2: MIL-B-121 with pres. codes 2 or 6.

\*NOTE 3: MIL-B-131 with pres. codes 3, 4, or 7, and MIL-B-81705, Type I with pres. code 9.

\*NOTE 4: Units per package, MIL-D-3464 desiccant with pres. code 4.

\*NOTE 5: PPP-C-795 with pres. codes 1 - 7, or PPP-C-1752 with pres. codes 1, 3, 4, or 5, or PPP-C-1842, Type III with pres. code 9.

\*NOTE 6: MIL-B-131 with pres. code 1 - 7, or MIL-B-81705, Type I with pres. code 9.

\*NOTE 7: Units per package, MIL-D-3464 desiccant with pres. codes 4 or 8.

\*NOTE 8: L-P-378 or MIL-B-121 with pres. codes 3, 4, and 7, MIL-C-1842, Type III or MIL-B-81705, Type II with pres. code 9.

Table 4-2. Fast Pack/Item Selection Chart - PPP-B-1672, Type I, Vertical Star (MIL-STD-2073-2, Code NR)

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)	
6.0 x 6.0 x 10.0 (15.24 x 15.24 x 25.40) NSN 8115-00-192-1603	XA1	3.0 dia x 6.0 (7.62 dia x 15.24)	1.0 -- 1.5 (.45 -- .675)	30 -- 40	6.3 x 6.3 x 10.5 (16.0 x 16.0 x 26.25)	0.241 (0.00723)	1.35 (0.6075)	
			1.6 -- 2.25 (0.72 -- 1.013)	25 -- 29				
			2.3 -- 3.0 (1.04 -- 1.35)	30 -- 40				
8.0 x 8.0 x 12.0 (20.32 x 20.32 x 30.48) NSN 8115-00-192-1604	XA2	3.0 x 3.0 x 8.0 (7.62 x 7.62 x 20.32)	1.5 -- 4.0 (0.675 -- 1.8)	30 -- 40	8.3 x 8.3 x 12.5 (21.08 x 21.08 x 31.75)	0.498 (.015)	0.240 (1.08)	
			3.0 -- 7.5 (1.35 -- 3.375)	25 -- 29				
			7.6 -- 8.5 (3.42 -- 3.825)	30 -- 40				
		4.0 x 4.0 x 8.0 (10.16 x 10.16 x 20.32)	3.0 -- 5.0 (1.35 -- 2.25)	25 -- 29				
			5.1 -- 7.0 (2.295 -- 3.15)	30 -- 40				
			5.0 dia x 8.0 (12.7 dia x 20.32)	30 -- 40				
10.0 x 10.0 x 12.0 (25.4 x 25.4 x 30.48) NSN 8115-00-192-1605	XA3	4.0 dia x 6.0 (10.16 dia x 15.24)	2.0 -- 3.0 (0.9 -- 1.35)	30 -- 40	10.5 x 10.5 x 12.5 (26.67 x 26.67 x 31.75)	0.798 (0.024)	3.20 (1.44)	
			3.1 -- 4.5 (1.395 -- 2.025)	25 -- 29				
			4.6 -- 5.0 (2.07 -- 2.25)	30 -- 40				
		5.0 dia x 6.0 (12.7 dia x 15.24)	3.0 -- 6.0 (1.35 -- 2.7)	30 -- 40				
			6.0 dia x 6.0 (15.24 dia x 15.24)	4.5 -- 7.0 (2.025 -- 3.15)				30 -- 40
				5.0 x 5.0 x 6.0 (12.7 x 12.7 x 15.24)				4.0 -- 9.0 (1.8 -- 4.05)

Table 4-2. Fast Pack/Item Selection Chart - PPP-B-1672, Type I, Vertical Star (MIL-STD-2073-2, Code NR) – CONT

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)
12.0 x 12.0 x 14.0 (30.48 x 30.48 x 35.56) NSN 8115-00-134-3655	XA4	5.0 dia x 8.0 (12.7 dia x 20.32)	3.5 -- 4.5 (1.575 -- 2.025)	25 -- 29	12.5 x 12.5 x 14.5 (31.75 x 31.75 x 36.83)	1.311 (0.039)	4.80 (2.16)
			4.6 -- 8.5 (2.07 -- 3.825)	20 -- 24			
		6.0 dia x 8.0 (15.24 dia x 20.32)	5.0 -- 7.0 (2.25 -- 3.15)	25 -- 29			
			7.1 -- 13.0 (3.195 -- 5.85)	20 -- 24			
		5.0 x 5.0 x 8.0 (12.7 x 12.7 x 20.32)	3.0 -- 5.0 (1.35 -- 2.25)	30 -- 40			
			5.1 -- 7.0 (2.295 -- 3.15)	25 -- 29			
			7.1 -- 11.0 (3.195 -- 4.95)	20 -- 24			
			5.0 -- 7.0 (2.25 -- 3.15)	30 -- 40			
		6.0 x 6.0 x 8.0 (15.24 x 15.24 x 20.32)	7.1 -- 10.0 (3.195 -- 4.5)	25 -- 29			
			10.1 -- 12.0 (4.545 -- 5.4)	20 -- 24			
			4.0 -- 5.0 (1.8 -- 2.25)	25 -- 29			
			5.1 -- 11.0 (2.295 -- 4.95)	20 -- 24			
12.0 x 12.0 x 18.0 (30.48 x 30.48 x 45.72) NSN 8115-00-050-5237	XA5	5.0 dia x 10.0 (12.7 dia x 25.4)	6.0 -- 8.0 (2.7 -- 3.6)	25 -- 29	12.5 x 12.5 x 18.5 (31.75 x 31.75 x 46.99)	1.673 (.050)	5.27 (2.372)
			8.1 -- 16.0 (3.65 -- 7.2)	20 -- 24			
		6.0 dia x 10.0 (15.24 dia x 25.4)	4.0 -- 6.0 (1.8 -- 2.7)	30 -- 40			
			6.1 -- 8.0 (2.745 -- 3.6)	25 -- 29			
		5.0 x 5.0 x 10.0 (12.7 x 12.7 x 25.4)	8.1 -- 13.0 (3.65 -- 5.85)	20 -- 24			
			4.0 -- 5.0 (1.8 -- 2.25)	25 -- 29			
			5.1 -- 11.0 (2.295 -- 4.95)	20 -- 24			
			6.0 -- 8.0 (2.7 -- 3.6)	25 -- 29			

Table 4-2. Fast Pack/Item Selection Chart - PPP-B-1672, Type I, Vertical Star (MIL-STD-2073-2, Code NR) – CONT

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)
		6.0 x 6.0 x 10.0 (15.24 x 15.24 x 25.4)	8.0 -- 10.0 (3.6 -- 4.5) 10.1 -- 14.0 (4.545 -- 6.3) 14.1 -- 20.0 (6.345 -- 9.0)	30 -- 40  25 -- 29  20 -- 24			
14.0 x 14.0 x 16.0 (35.56 x 35.56 x 40.64) NSN 8115-00-134-3656	XA6	6.0 dia x 10.0 (15.24 dia x 25.4) 7.0 dia x 10.0 (17.78 dia x 25.4)  6.0 x 6.0 x 10.0 (15.24 x 15.24 x 25.4)  7.0 x 7.0 x 10.0 (17.78 x 17.78 x 25.4)	6.5 -- 15.0 (2.7 -- 6.75) 8.0 -- 14.0 (3.6 -- 6.3) 14.1 -- 17.0 (6.345 -- 7.65) 17.1 -- 20.0 (7.695 -- 9.0) 5.0 -- 7.0 (2.25 -- 3.15) 7.1 -- 9.0 (3.195 -- 4.05) 9.1 -- 12.0 (4.095 -- 5.4) 6.5 -- 9.0 (2.925 -- 4.05) 9.1 -- 12.0 (4.095 -- 5.4) 12.1 -- 21.0 (5.445 -- 9.45) 21.1 -- 23.0 (9.495 -- 10.35)	25 -- 29  20 -- 24  24 -- 29  30 -- 40  30 -- 40  24 -- 29  20 -- 24  30 -- 40  25 -- 29  20 -- 24  25 -- 29	14.5 x 14.5 x 16.5 (36.83 x 36.83 x 41.91)	2.008 (.060)	7.5 (3.375)

Table 4-3. Fast Pack/Item Selection Chart - PPP-B-1672, Type II, Folding Convuluted (MIL-STD-2073-2, Code NS)

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)
6.0 x 5.0 x 2.5 (15.24 x 12.7 x 6.35) NSN 8115-00-787-2142	XC1	5.0 x 4.5 x 1.25 (12.7 x 11.43 x 3.175)	0.5 (.225)	NOTE: Items assigned to these packs are not fragile, dynamic cushioning values have not been determined.	6.3 x 5.3 x 3.0 (16.0 x 13.46 x 7.62)	0.058 (0.00174)	0.30 (0.135)
6.0 x 5.0 x 3.5 (15.24 x 12.7 x 8.89) NSN 8115-00-787-2147	XC2	5.0 x 4.5 x 2.25 (12.7 x 11.43 x 5.72)	1.0 (.45)		6.3 x 5.3 x 4.0 (16.0 x 13.46 x 10.16)	0.077 (0.00231)	0.42 (0.189)
9.0 x 6.0 x 2.5 (22.86 x 15.24 x 6.35) NSN 8115-00-101-7647	XC3	8.0 x 5.5 x 1.25 (20.32 x 13.97 x 3.175)	0.9 (.405)		9.3 x 6.3 x 4.0 (23.62 x 16.0 x 3.0)	0.102 (0.00306)	0.60 (0.27)
9.0 x 6.0 x 3.5 (22.86 x 15.24 x 8.89) NSN 8115-00-101-7638	XC4	8.0 x 5.5 x 2.25 (20.32 x 13.97 x 5.72)	1.8 (0.81)		9.3 x 6.3 x 4.0 (23.62 x 16.0 x 10.16)	0.136 (0.00765)	0.68 (0.306)
12.0 x 8.0 x 2.5 (30.48 x 20.32 x 6.35) NSN 8115-00-787-2146	XC5	11.0 x 7.5 x 1.25 (27.94 x 19.05 x 3.175)	1.8 (0.81)		12.5 x 8.3 x 3.0 (31.75 x 21.08 x 7.62)	0.180 (0.0054)	0.73 (0.3285)
12.0 x 8.0 x 3.5 (30.48 x 20.32 x 8.89) NSN 8115-00-787-2148	XC6	11.0 x 7.5 x 2.25 (27.94 x 19.05 x 5.72)	3.6 (1.62)		12.5 x 8.3 x 4.0 (31.75 x 21.08 x 10.16)	0.240 (0.0072)	0.86 (0.387)
18.0 x 12.0 x 2.5 (45.72 x 30.48 x 8.89) NSN 8115-01-019-4085	XC7	17.0 x 11.5 x 1.25 (43.18 x 29.21 x 3.175)	4.3 (1.935)	See Note Above	18.5 x 12.5 x 3.0 (46.99 x 31.75 x 7.62)	0.402 (0.01206)	2.75 (1.2375)
18.0 x 12.0 x 3.5 (45.72 x 30.48 x 8.89) NSN 8115-01-019-4084	XC8	17.0 x 11.5 x 2.25 (43.18 x 29.21 x 5.72)	8.6 (3.87)		18.5 x 12.5 x 4.0 (46.99 x 31.75 x 10.16)	0.535 (0.01605)	2.92 (1.314)

Table 4-3. Fast Pack/Item Selection Chart - PPP-B-1672, Type II, Folding Convoluted (MIL-STD-2073-2, Code NS) – CONT

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)
10.0 x 10.0 x 3.5 (25.4 x 25.4 x 8.89) NSN 8115-01-057-1244	XC9	9.0 x 9.5 x 2.25 (22.86 x 24.13 x 5.72)	1.8 (0.81)	See Note Above	10.5 x 10.5 x 4.0 (26.67 x 26.67 x 10.16)	0.255 (0.00765)	1.00 (.45)
13.0 x 13.0 x 3.5 (33.02 x 33.02 x 8.89) NSN 8115-01-057-1243	XD1	12.0 x 12.5 x 2.25 (30.48 x 31.75 x 5.72)	4.3 (1.935)		13.5 x 13.5 x 4.0 (34.29 x 34.29 x 10.16)	0.422 (0.01266)	1.50 (0.675)
16.0 x 16.0 x 3.5 (40.64 x 40.64 x 8.89) NSN 8115-01-051-1245	XD2	15.0 x 15.5 x 2.25 (38.1 x 39.37 x 5.72)	8.6 (3.87)		16.5 x 16.5 x 4.0 (41.91 x 41.91 x 10.16)	0.630 (0.0189)	2.00 (0.9)
24.0 x 16.0 x 3.5 (60.96 x 40.64 x 8.89) NSN 8115-01-093-3730	XD3	23.0 x 15.0 x 2.25 (58.42 x 38.1 x 5.72)	10.0 (4.5)		24.5 x 16.5 x 4.0 (62.23 x 41.91 x 10.16)	0.936 (0.02808)	3.45 (1.5525)

Table 4-4. Fast Pack/Item Selection Chart - PPP-B-1672, Type III, Telescoping Encapsulated (MIL-STD-2073-2, Code NV)

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)
30.0 x 16.0 x 14.0 (76.2 x 40.64 x 35.56) NSN 8115-00-516-0242	XE1	24.0 x 11.0 x 9.0 (60.96 x 27.94 x 22.86) min: 24.0 x 8.0 x 7.0 (50.8 x 20.32 x 17.78)	28 -- 48 (12.6 -- 21.6) 49 -- 54 (22.05 -- 24.3)	30 -- 39  40 -- 50	31.0 x 17.0 x 14.5 (78.74 x 43.18 x 36.83)	4.422 (0.13266)	13.0 (5.85)
32.0 x 12.0 x 14.0 (81.28 x 30.48 x 35.56) NSN 8115-00-519-1825	XE2	26.0 x 6.0 x 8.0 (66.04 x 15.24 x 20.32)  min: 22.0 x 4.0 x 5.0 (55.88 x 10.16 x 12.7)	12 -- 20 (5.4 -- 9.0) 20 -- 29 (9.0 -- 13.05) 30 -- 33 (13.5 -- 14.85)	30 -- 39  25 -- 29  40 -- 50	33.0 x 13.0 x 14.5 (83.82 x 33.02 x 36.83)	3.6 (0.108)	11.0 (4.95)
24.0 x 14.0 x 14.0 (60.96 x 35.56 x 35.56) NSN 8115-00-550-3558	XE3	18.0 x 8.0 x 8.0 (45.72 x 20.32 x 20.32) min: 14.0 x 6.0 x 6.0 (35.56 x 15.24 x 15.24)	13 -- 16 (5.85 -- 7.2) 17 -- 38 (7.65 -- 17.1)	30 -- 39  25 -- 29	25.0 x 15.0 x 14.5 (63.5 x 38.1 x 36.83)	3.147 (0.09441)	9.50 (4.275)
20.0 x 14.0 x 9.0 (50.8 x 35.56 x 22.86) NSN 8115-00-516-0251	XE4	16.0 x 10.0 x 5.0 (40.64 x 25.4 x 12.7) min: 15.0 x 10.0 x 3.0 (38.1 x 25.4 x 7.62)	6 -- 7 (2.7 -- 3.5) 7 -- 8 (3.15 -- 3.6)	30 -- 39  40 -- 50	21.0 x 15.0 x 9.3 (53.4 x 38.1 x 23.62)	1.695 (0.05085)	4.25 (1.913)
25.0 x 14.0 x 14.0 (63.5 x 35.56 x 35.56) NSN 8115-00-550-3574	XE5	13.0 x 7.0 x 7.0 (33.02 x 17.78 x 17.78) min: 8.0 x 4.0 x 4.0 (20.32 x 10.16 x 10.16)	7 -- 14 (3.15 -- 6.3) 15 -- 16 (6.75 -- 7.2) 17 -- 19 (7.65 -- 8.55)	20 -- 24  30 -- 39  40 -- 50	26.0 x 15.0 x 14.5 (66.04 x 38.1 x 36.83)	3.273 (0.09819)	12.0 (5.4)
32.0 x 18.0 x 16.0 (81.28 x 45.72 x 16.0) NSN 8115-01-015-1315	XE6	24.0 x 13.0 x 11.0 (60.96 x 33.02 x 27.94) min: 20.0 x 10.0 x 8.0 (50.8 x 25.4 x 20.32)	80 (max) (36 kg)	20 -- 24	34.5 x 20.5 x 17.0 (87.63 x 52.07 x 43.18)	6.958 (0.20874)	22.0 (9.9)
24.0 x 18.0 x 16.0 (60.96 x 45.72 x 40.64) NSN 8115-01-015-1312	XE7	18.0 x 13.0 x 11.0 (45.72 x 33.02 x 27.94) min: 14.0 x 10.0 x 8.0 (35.56 x 25.4 x 20.32)	20 -- 39 (9.0 -- 17.55) 40 -- 50 (18 -- 22.5)	25 -- 29  30 -- 39	25.0 x 19.0 x 16.5 (63.5 x 48.26 x 41.91)	4.536 (0.13608)	14.0 (6.3)

Table 4-4. Fast Pack/Item Selection Chart - PPP-B-1672, Type III, Telescoping Encapsulated (MIL-STD-2073-2, Code NV) – CONT

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)
26.0 x 9.0 x 9.0 (66.04 x 22.86 x 22.86) NSN 8115-01-015-1313	XE8	20.0 x 5.0 x 5.0 (50.8 x 12.7 x 12.7) min: 12.0 x 3.0 x 3.0 (30.48 x 7.62 x 7.62)	20 (max) (9.0)	50 (max)	27.0 x 10.0 x 9.3 (68.58 x 25.4 x 23.62)	1.453 (0.04359)	5.50 (2.475)
34.0 x 24.0 x 18.0 (86.36 x 60.96 x 45.72) NSN 8115-01-015-1314	XE9	25.0 x 18.0 x 12.0 (63.5 x 45.72 x 30.48) min: 11.0 x 16.0 x 8.0 (27.94 x 40.64 x 20.32)	90 (max) (40.5)	35 (max)	36.5 x 26.5 x 19.0 (92.71 x 67.31 x 48.28)	10.635 (0.3191)	27.0 (12.15)
30.0 x 27.0 x 14.0 (76.2 x 68.58 x 35.56) NSN 8115-01-094-6520	XF1	24.0 x 21.0 x 18.0 (60.96 x 53.34 x 45.72) min: 20.0 x 17.0 x 4.0 (50.8 x 43.18 x 10.16)	26 -- 45 (11.7 -- 20.25) 46 -- 50 (20.7 -- 22.5)	21 -- 28 23 -- 30	31.0 x 28.0 x 15.0 (78.74 x 71.12 x 38.1)	7.535 (0.2261)	18.0 (8.1)

Table 4-5. Fast Pack/Item Selection Chart - PPP-B-1672, Type IV, Horizontal Star (MIL-STD-2073-2, Code NW)

Container Interior Dimensions inches (cm) National Stock Number	Fast Pack Code	Recommended Maximum Bare Item Dimensions inches (cm)	Item Weight Range lbs (kg)	Maximum Shock Transmitted to Item (G's)	Packaged Outer Dimensions inches (cm)	Packaged Cube inches (cm)	Tare Weight lbs (kg)			
20.0 x 14.0 x 14.0 (50.8 x 35.56 x 35.56) NSN 8115-01-010-8956	XG1	min: 14.0 x 5.125 x 5.375 (35.56 x 13.02 x 13.65)	6.0 -- 14.0 (2.7 -- 6.3)	25 -- 29	20.5 x 36.83 x 36.83 (52.07 x 36.83 x 36.83)	2.494 (.07482)	8.40 (3.78)			
			15.0 -- 18.0 (6.75 -- 8.1)	30 -- 39						
			19.0 -- 21.0 (8.55 -- 9.45)	40 -- 50						
			10.0 -- 14.0 (4.5 -- 6.3)	30 -- 39						
			15.0 -- 19.0 (6.75 -- 8.55)	20 -- 24						
		14.0 x 7.0 x 7.0 (35.56 x 17.78 x 17.78)	20.0 -- 23.0 (9.0 -- 10.35)	25 -- 29						
			24.0 -- 26.0 (10.8 -- 11.7)	30 -- 39						
			27.0 -- 29.0 (12.15 -- 13.05)	40 -- 50						
			8.0 -- 20.0 (3.6 -- 9.0)	25 -- 29				22.5 x 16.5 x 16.5 (57.15 x 41.91 x 41.91)	3.545 (0.10635)	9.0 (4.05)
			21.0 -- 27.0 (9.45 -- 12.15)	30 -- 39						
28.0 -- 31.0 (12.6 -- 13.95)	40 -- 50									
11.0 -- 16.0 (4.95 -- 7.2)	25 -- 29									
17.0 -- 21.0 (7.65 -- 9.45)	20 -- 24									
16.0 x 7.25 x 7.25 (40.64 x 18.42 x 18.42)	22.0 -- 24.0 (9.9 -- 10.8)	25 -- 29								
	25.0 -- 27.0 (11.25 -- 12.15)	30 -- 39								
	28.0 -- 31.0 (12.6 -- 13.95)	40 -- 50								



## SECTION V

## DETAILED REQUIREMENTS FOR STANDARD PACKS

**5-1 CONTAINER.**

5-1.1 Standard packs are PPP-636, Type RSC, Class Weather-Resistant fiberboard containers used primarily for shipment of depot level reparable.

5-1.2 The last two digits of the standard pack number specify the size of the container. See section II and figure 5-1 for complete explanation of the number. The Container Standardization Master List, table 5-1, provides essential data related to this code.

5-1.3 Use the specified container and place the item in the center of the container with an equal amount of cushioning all around (reference paragraph 3-1.4).

**5-2 METHOD OF PRESERVATION.**

5-2.1 The MIL-P-116 methods of preservation are specified for fast and standard packs in paragraph 3-1.1.

5-2.2 For preservation codes 1 through 9, always use the specified preservation method when a SERVICEABLE item is packaged for shipment/storage. UNSERVICEABLE items being returned for depot level repair shall be packaged as specified in paragraph 3-1.8. Preservation is always required for both serviceable and unserviceable items when preservation code 9 is specified.

**5-3 SIMPLE INSTRUCTION CODE.**

5-3.1 The eighth position of the standard pack number specifies the kind of packaging materials needed to preserve and protect the item. Below are the codes used in this position (reference figure 5-1).

Code A	=	Wrap only.
Code B	=	Type A Cushion only.
Code C	=	Bag only.
Code D	=	Wrap and Type A cushion.
Code E	=	Wrap, Type A cushion, and bag.
Code F	=	Wrap and bag.
Code G	=	Type A cushion and bag.
Code H	=	Wrap and Type B cushion.
Code I	=	Wrap, bag, and Type B cushion.
Code J	=	Bag and Type B cushion.
Code K	=	Wrap, Type A cushion, and Type B cushion.
Code L	=	Cushion with MIL-F-83671, Class 2 (flexible) foam in-place (fip) (reference TO 00-85-37). If fip is not available, use Type B cushion.
Code M	=	Block and brace with MIL-F-83671, Class 1 (rigid) fip (reference TO 00-85-37). If fip is not available, block IAW MIL-STD-1186.
Code N	=	Place in MIL-P-81997 only.

## NOTE

The process is to be performed in the order stated for each code.

5-3.2 If Type A or B cushioning is specified in the simple instruction code, select the material from this paragraph.

If Type A cushion is specified by the Simple Instruction Code, select from the following materials:

PPP-C-795	----	Cellular Plastic Film
PPP-C-1752	----	Unicellular Polyethylene
PPP-C-1797	----	Unicellular Polypropylene

If **Type B** cushion is specified by the Simple Instruction Code, select from the following materials:

MIL-P-26514 ---- Flexible Polyurethane  
Foam

Type I, Class 2  
(Preformed Sheet Stock)

MIL-F-83671 ---- Foam-in-place (Flexible)  
(Reference TO 00-85-37)

PPP-C-1120 ---- Bound Fiber

NOTE

- Cushioning for preservation code 9 items **must** be antistatic.
- A wrap is required for preservation code 1 only when necessary to protect the item against contamination or abrasion by the cushioning/dunnage. A wrap may also be required for repairable items to prevent soiling the cushioning.

5-3.3 If a wrap or bag is specified by the simple instruction code, select from figures 5-2 through 5-5 using the table of materials that corresponds to the preservation method indicated by the seventh digit of the standard pack number.

NOTE

A wrap is required for Method III (Code 1) only to protect the item from

abrasion or contamination from the cushioning/dunnage. A wrap may also be required to prevent soiling by a greasy, rusty or dirty item being shipped for repair. A bag (MIL-B-121, etc), heat-sealed, or otherwise, may be used instead of a wrap. Care should be taken to cushion knobs, sharp corners or other pointed parts to prevent puncture of the wrap or bag.

5-4 WRAPS, BAGS, AND DESICCANT.

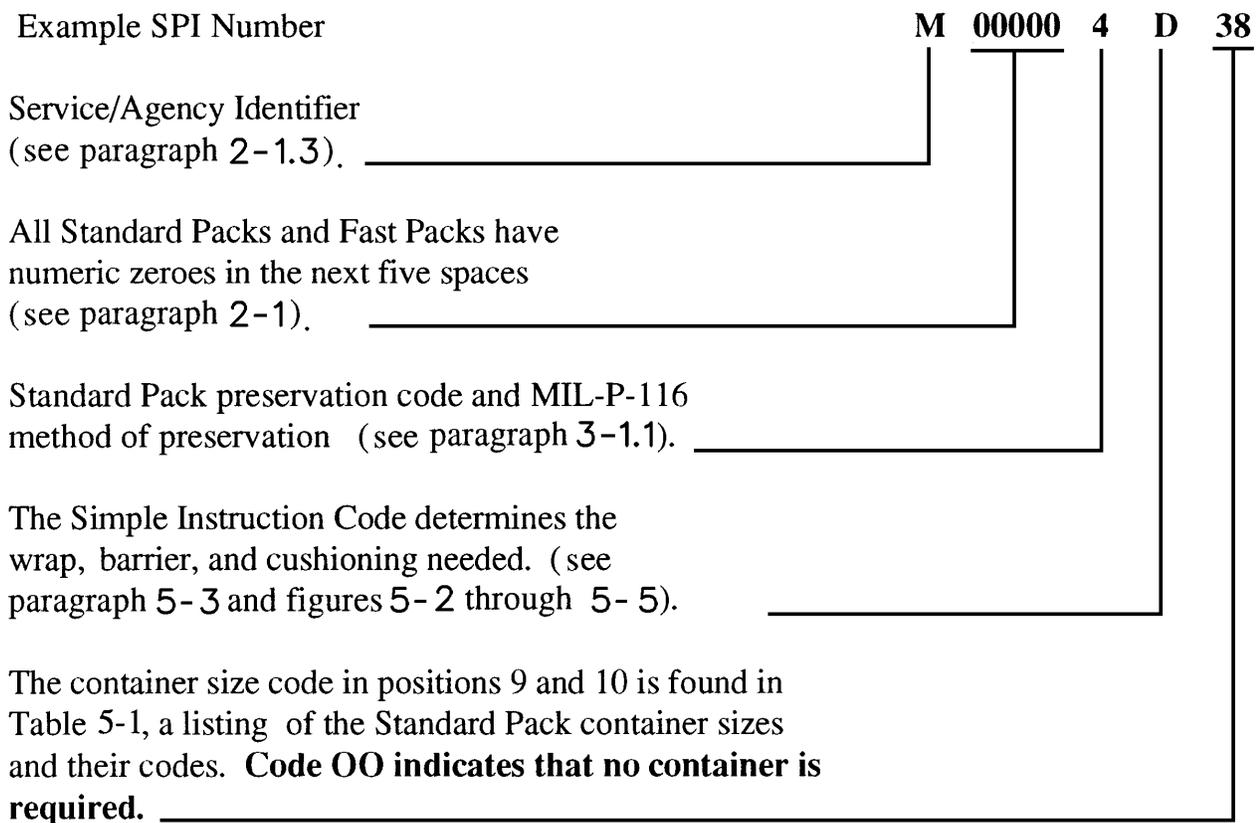
5-4.1 Table 5-2 lists wraps and/or bags in the proper sizes to be used with the corresponding container code. These are the maximum sizes to be used with the corresponding container code. These are the maximum sizes for a given container. Preformed bags may be used instead of the wrap (reference table 4-1 sizes of wraps and bags).

5-4.2 Table 5-2 also lists the number of desiccant units to be used when Method II preservation is required. The number of desiccant units prescribed is based on the maximum quantity of cushioning and dunnage that might be used in the standard size container. The number of desiccant units required for bound fiber and cellulosic cushioning is greater, because it will retain more moisture than synthetic cushioning. Other cushioning materials shown in paragraph 5-3.1 are synthetic.

5-4.3 Table 5-3 provides a reference to specification materials used with standard packs.

## STANDARD PACK

This table defines the Standard Pack SPI Number positions 8-10, the first seven positions are the same as in the Fast Pack SPI Number described in paragraph 2-1.3 and figure 4-1.



H9400027

*Figure 5-1. Standard Pack Numbering System*

Wrap  
 PPP-C-795  
 PPP-C-1842  
 MIL-B-121



Bag  
 L-P-378  
 MIL-B-121

H9400028

Figure 5-2. Preservation Code 2, Method IC-1/Code 6, Method IC-1 (w/pres)

Wrap  
 L-P-378  
 PPP-C-795  
 PPP-C-795, Class 2 (anti-stat)  
 PPP-C-1752, Type VII, Class 4 (anti-stat)  
 PPP-C-1797, Type II, (anti-stat)  
 PPP-C-1842  
 PPP-C-1842, Type III (anti-stat)  
 MIL-B-121  
 MIL-B-17667  
 MIL-B-81705, Type II (anti-stat)

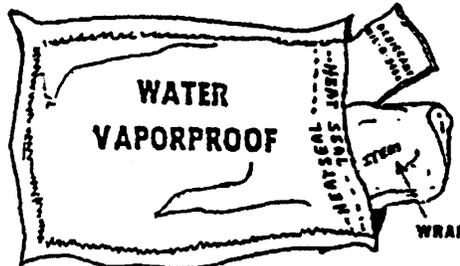


Bag  
 MIL-B-131  
 MIL-B-22191, Type I  
 MIL-B-81705, Type I  
 (static shielding)

H9400173

Figure 5-3. Preservation Code 3, Method IA-8/Code 7, Method IA-8 (w/pres)/Code 9, Method IA-8 (w/Electrostatic Discharge (ESD) protection)

Wrap  
 L-P-378  
 PPP-C-795  
 PPP-C-1842  
 MIL-B-121  
 MIL-P-17667



Bag  
 MIL-B-131  
 MIL-B-22191, Type I  
 MIL-B-81705, Type I  
 (anti-stat)

Desiccant  
 MIL-D-3464

H9400174

Figure 5-4. Preservation Code 4, Method IIc

Wrap  
 MIL-B-121



Bag  
 Not required by method  
 but may be used.

H9400175

Figure 5-5. Preservation Code 5, Method I

Table 5-1. Container Standardization Master List

CONTAINER SIZE CODE	CONTAINER SIZE ID in (cm)	CONTAINER SIZE OD in (cm)	CUBE OD cu ft (cu m)	CONTAINER WT lbs (kg)	NSN
01	4.0 x 4.0 x 4.0 (10.16 x 10.16 x 10.16)	4.3 x 4.3 x 4.5 (10.92 x 10.92 x 11.43)	0.048 (0.00144)	0.25 (0.1125)	8115-00-265-7059
02	4.0 x 4.0 x 12.0 (10.16 x 10.16 x 30.48)	4.3 x 4.3 x 12.5 (10.92 x 10.92 x 31.75)	0.134 (0.00402)	0.74 (0.333)	8115-00-418-4660
03	4.0 x 4.0 x 16.0 (10.16 x 10.16 x 40.64)	4.3 x 4.3 x 16.5 (10.92 x 10.92 x 41.91)	0.177 (0.00531)	0.72 (0.324)	8115-00-200-6954
04	5.0 x 5.0 x 20.0 (12.7 x 12.7 x 50.8)	5.3 x 5.3 x 20.5 (13.46 x 13.46 x 52.07)	0.333 (0.00999)	0.88 (0.396)	8115-00-030-3532
05	6.0 x 4.0 x 8.0 (15.24 x 10.16 x 20.32)	6.3 x 4.3 x 8.5 (16.0 x 10.92 x 21.59)	0.133 (0.0040)	0.45 (0.2025)	8115-00-190-4888
06	6.0 x 6.0 x 6.0 (15.24 x 15.24 x 15.24)	6.3 x 6.3 x 6.5 (16.0 x 16.0 x 16.51)	0.149 (0.00447)	0.52 (0.234)	8115-00-183-9503
07	6.0 x 6.0 x 10.0 (15.24 x 15.24 x 25.4)	6.3 x 6.3 x 10.5 (16.0 x 16.0 x 26.67)	0.241 (0.00723)	0.68 (0.306)	8115-00-417-9440
08	6.0 x 6.0 x 15.0 (15.24 x 15.24 x 38.1)	6.3 x 6.3 x 15.5 (16.0 x 16.0 x 39.37)	0.356 (0.01068)	0.88 (0.396)	8115-01-166-6458
09	6.0 x 6.0 x 18.0 (15.24 x 15.24 x 45.72)	6.3 x 6.3 x 18.5 (16.0 x 16.0 x 46.99)	0.425 (0.01275)	1.00 (0.45)	8115-00-190-4920
10	6.0 x 6.0 x 24.0 (15.24 x 15.24 x 60.96)	6.3 x 6.3 x 24.5 (16.0 x 16.0 x 62.23)	0.563 (0.01689)	1.25 (0.5625)	8115-00-190-4920
11	8.0 x 4.0 x 4.0 (20.32 x 10.16 x 10.16)	8.3 x 4.3 x 4.5 (21.08 x 10.92 x 11.43)	0.093 (0.00279)	0.38 (0.171)	8115-00-183-9500
12	8.0 x 8.0 x 4.0 (20.32 x 20.32 x 10.16)	8.3 x 8.3 x 4.5 (21.08 x 21.08 x 11.43)	0.179 (0.00537)	0.60 (0.27)	8115-00-281-3878
13	8.0 x 8.0 x 8.0 (20.32 x 20.32 x 20.32)	8.3 x 8.3 x 8.5 (21.08 x 21.08 x 21.59)	0.339 (0.01017)	0.90 (0.405)	8115-00-183-9498
14	8.0 x 8.0 x 10.0 (20.32 x 20.32 x 25.4)	8.3 x 8.3 x 10.5 (21.08 x 21.08 x 26.67)	0.149 (0.00447)	1.02 (0.459)	8115-00-183-9499
15	8.0 x 8.0 x 12.0 (20.32 x 20.32 x 30.48)	8.3 x 8.3 x 12.5 (21.08 x 21.08 x 31.75)	0.498 (0.01494)	1.12 (0.504)	8115-00-281-3882

Table 5-1. Container Standardization Master List – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID in (cm)	CONTAINER SIZE OD in (cm)	CUBE OD cu ft (cu m)	CONTAINER WT lbs (kg)	NSN
16	8.0 x 8.0 x 14.0 (20.32 x 20.32 x 35.56)	8.3 x 8.3 x 14.5 (21.08 x 21.08 x 36.83)	0.578 (0.01734)	1.25 (0.5625)	8115-01-166-6459
17	8.0 x 8.0 x 16.0 (20.32 x 20.32 x 40.64)	8.3 x 8.3 x 16.5 (21.08 x 21.08 x 41.91)	0.658 (0.01974)	1.35 (0.6075)	8115-00-190-4936
18	8.0 x 8.0 x 24.0 (20.32 x 20.32 x 60.96)	8.3 x 8.3 x 24.5 (21.08 x 21.08 x 62.23)	0.977 (0.02931)	1.80 (0.81)	8115-00-417-9442
19	9.0 x 6.0 x 6.0 (22.86 x 15.24 x 15.24)	9.3 x 6.3 x 6.5 (23.62 x 16.0 x 16.51)	0.220 (0.0066)	0.66 (0.297)	8115-00-190-4950
20	9.0 x 6.0 x 18.0 (22.86 x 15.24 x 45.72)	9.3 x 6.3 x 18.5 (23.62 x 16.0 x 46.99)	0.627 (0.01881)	1.50 (0.675)	8115-01-029-6777
21	9.0 x 9.0 x 9.0 (22.86 x 22.86 x 22.86)	9.3 x 9.3 x 9.5 (23.62 x 23.62 x 24.13)	0.476 (0.01428)	1.15 (0.5175)	8115-01-166-6460
22	10.0 x 6.0 x 4.0 (25.4 x 15.24 x 10.16)	10.5 x 6.3 x 4.5 (26.67 x 16.0 x 11.43)	0.172 (0.00516)	0.60 (0.27)	8115-00-183-9496
23	10.0 x 6.0 x 10.0 (25.4 x 15.24 x 25.4)	10.5 x 6.3 x 10.5 (26.67 x 16.0 x 26.67)	0.402 (0.01206)	0.85 (0.3825)	8115-00-255-1341
24	10.0 x 8.0 x 6.0 (25.4 x 20.32 x 15.24)	10.5 x 8.3 x 6.5 (26.67 x 21.08 x 16.51)	0.328 (0.00984)	0.90 (0.405)	8115-00-183-9497
25	10.0 x 10.0 x 8.0 (25.4 x 25.4 x 20.32)	10.5 x 10.5 x 8.5 (26.67 x 26.67 x 21.59)	0.542 (0.01626)	1.26 (0.567)	8115-00-183-9494
26	10.0 x 10.0 x 10.0 (25.4 x 25.4 x 25.4)	10.5 x 10.5 x 10.5 (26.67 x 26.67 x 26.67)	0.670 (0.0201)	1.40 (0.63)	8115-00-190-4959
27	10.0 x 10.0 x 12.0 (25.4 x 25.4 x 30.48)	10.5 x 10.5 x 12.5 (26.67 x 26.67 x 31.75)	0.798 (0.02394)	1.50 (0.675)	8115-01-034-0370
28	11.0 x 11.0 x 11.0 (27.94 x 27.94 x 27.94)	11.5 x 11.5 x 11.5 (29.21 x 29.21 x 29.21)	0.880 (0.0264)	1.70 (0.765)	8115-00-417-9406
29	11.25 x 8.75 x 4.0 (28.58 x 22.23 x 10.16)	11.5 x 9.0 x 4.5 (29.21 x 22.86 x 11.43)	0.270 (0.0081)	0.92 (0.414)	8115-01-012-5003
30	11.25 x 8.75 x 18.0 (28.58 x 22.23 x 45.72)	11.5 x 9.0 x 18.5 (29.21 x 22.86 x 46.99)	1.108 (0.03324)	1.86 (0.837)	8115-00-190-4969

Table 5-1. Container Standardization Master List – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID in (cm)	CONTAINER SIZE OD in (cm)	CUBE OD cu ft (cu m)	CONTAINER WT lbs (kg)	NSN
31	12.0 x 6.0 x 6.0 (30.48 x 15.24 x 15.24)	12.5 x 6.3 x 6.5 (31.75 x 16.0 x 16.51)	0.296 (0.0089)	0.78 (0.351)	8115-00-183-9492
32	12.0 x 6.0 x 12.0 (30.48 x 15.24 x 30.48)	12.5 x 6.3 x 12.5 (31.75 x 16.0 x 31.75)	0.570 (0.0171)	1.25 (0.5625)	8115-00-190-4974
33	12.0 x 6.0 x 15.0 (30.48 x 15.24 x 38.1)	12.5 x 6.3 x 15.5 (31.75 x 16.0 x 39.37)	0.706 (0.0212)	1.32 (0.594)	8115-00-417-9380
34	12.0 x 9.0 x 6.0 (30.48 x 22.86 x 15.24)	12.5 x 9.3 x 6.5 (31.75 x 23.62 x 16.51)	0.437 (0.0131)	1.10 (0.495)	8115-01-011-3626
35	12.0 x 9.5 x 9.5 (30.48 x 24.13 x 24.13)	12.5 x 10.0 x 10.0 (31.75 x 25.4 x 25.4)	0.723 (0.0217)	1.40 (0.63)	8115-00-132-9531
36	12.0 x 12.0 x 4.0 (30.48 x 30.48 x 10.16)	12.5 x 12.5 x 4.5 (31.75 x 31.75 x 11.43)	0.407 (0.0122)	1.35 (0.6075)	8115-00-190-4860
37	12.0 x 12.0 x 8.0 (30.48 x 30.48 x 20.32)	12.5 x 12.5 x 8.5 (31.75 x 31.75 x 21.59)	0.769 (0.0231)	1.50 (0.675)	8115-00-417-9378
38	12.0 x 12.0 x 10.0 (30.48 x 30.48 x 25.4)	12.5 x 12.5 x 10.5 (31.75 x 31.75 x 26.67)	0.949 (0.0285)	1.81 (0.8145)	8115-00-183-9490
39	12.0 x 12.0 x 12.0 (30.48 x 30.48 x 30.48)	12.5 x 12.5 x 12.5 (31.75 x 31.75 x 31.75)	1.131 (0.0339)	1.97 (0.8865)	8115-00-183-9491
40	12.0 x 12.0 x 14.0 (30.48 x 30.48 x 35.56)	12.5 x 12.5 x 14.5 (31.75 x 31.75 x 36.83)	1.311 (0.0393)	2.14 (0.963)	8115-00-409-3807
41	13.0 x 13.0 x 13.0 (33.02 x 33.02 x 33.02)	13.5 x 13.5 x 13.5 (34.29 x 34.29 x 34.29)	1.424 (0.04272)	2.48 (1.116)	8115-01-166-6461
42	14.0 x 10.0 x 6.0 (35.56 x 25.4 x 15.24)	14.5 x 10.5 x 6.5 (36.83 x 26.67 x 16.51)	0.573 (0.01719)	1.35 (0.6075)	8115-00-495-5458
43	14.0 x 10.0 x 10.0 (35.56 x 25.4 x 25.4)	14.5 x 10.5 x 10.5 (36.83 x 26.67 x 26.67)	0.925 (0.02775)	1.68 (0.756)	8115-01-030-3537
44	14.0 x 12.0 x 8.0 (35.56 x 30.48 x 20.32)	14.5 x 12.5 x 8.5 (36.83 x 31.75 x 21.59)	0.892 (0.02676)	1.80 (0.81)	8115-00-183-9488
45	14.0 x 14.0 x 12.0 (35.56 x 35.56 x 30.48)	14.5 x 14.5 x 12.5 (36.83 x 36.83 x 31.75)	1.521 (0.04563)	2.22 (0.999)	8115-00-183-9489

Table 5-1. Container Standardization Master List – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID in (cm)	CONTAINER SIZE OD in (cm)	CUBE OD cu ft (cu m)	CONTAINER WT lbs (kg)	NSN
46	14.0 x 14.0 x 14.0 (35.56 x 35.56 x 35.56)	14.5 x 14.5 x 14.5 (36.83 x 36.83 x 36.83)	1.764 (0.05292)	2.68 (1.206)	8115-00-417-9321
47	14.0 x 14.0 x 16.0 (35.56 x 35.56 x 40.64)	14.5 x 14.5 x 16.5 (36.83 x 36.83 x 41.91)	2.008 (0.06024)	2.75 (1.2375)	8115-00-585-4906
48	14.0 x 14.0 x 18.0 (35.56 x 35.56 x 45.72)	14.5 x 14.5 x 18.5 (36.83 x 36.83 x 46.99)	2.251 (0.06753)	3.00 (1.35)	8115-00-417-9320
49	15.0 x 15.0 x 10.0 (38.1 x 38.1 x 25.4)	15.5 x 15.5 x 10.5 (39.37 x 39.37 x 26.67)	1.460 (0.0438)	2.55 (1.1475)	8115-00-417-9318
50	16.0 x 10.0 x 10.0 (40.64 x 25.4 x 25.4)	16.5 x 10.5 x 10.5 (41.91 x 26.67 x 26.67)	1.053 (0.03159)	1.80 (0.81)	8115-01-030-4249
51	16.0 x 12.0 x 8.0 (40.64 x 30.48 x 20.32)	16.5 x 12.5 x 8.5 (41.91 x 31.75 x 21.59)	1.145 (0.03435)	1.93 (0.8685)	8115-00-183-9487
52	16.0 x 12.0 x 12.0 (40.64 x 30.48 x 30.48)	16.5 x 12.5 x 12.5 (41.91 x 31.75 x 31.75)	1.492 (0.04476)	2.28 (1.026)	8115-00-418-4653
53	16.0 x 16.0 x 12.0 (40.64 x 40.64 x 30.48)	16.5 x 16.5 x 12.5 (41.91 x 41.91 x 31.75)	1.970 (0.0591)	3.09 (1.3905)	8115-00-451-7853
54	16.0 x 16.0 x 16.0 (40.64 x 40.64 x 40.64)	16.5 x 16.5 x 16.5 (41.91 x 41.91 x 41.91)	2.60 (0.078)	3.50 (1.575)	8115-00-190-5002
55	18.0 x 12.0 x 12.0 (45.72 x 30.48 x 30.48)	18.5 x 12.5 x 12.5 (46.99 x 31.75 x 31.75)	1.673 (0.05019)	2.50 (1.125)	8115-00-514-2409
56	18.0 x 15.0 x 10.0 (45.72 x 38.1 x 25.4)	18.5 x 15.5 x 10.5 (46.99 x 39.37 x 26.67)	1.742 (0.05226)	2.81 (1.2645)	8115-00-190-5007
57	18.0 x 15.0 x 15.0 (45.72 x 38.1 x 38.1)	18.5 x 15.5 x 15.5 (46.99 x 39.37 x 39.37)	2.572 (0.07716)	3.34 (1.503)	8115-00-417-9292
58	18.0 x 18.0 x 12.0 (45.72 x 45.72 x 30.48)	18.5 x 18.5 x 12.5 (46.99 x 46.99 x 31.75)	2.476 (0.07428)	3.64 (1.638)	8115-00-183-9482
59	18.0 x 18.0 x 18.0 (45.72 x 45.72 x 45.72)	18.5 x 18.5 x 18.5 (46.99 x 46.99 x 46.99)	3.664 (0.10992)	4.38 (1.971)	8115-00-428-4185
60	20.0 x 10.0 x 10.0 (50.8 x 25.4 x 25.4)	20.5 x 10.5 x 10.5 (52.07 x 26.67 x 26.67)	1.308 (0.03924)	2.05 (0.9225)	8115-01-166-6462

Table 5-1. Container Standardization Master List – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID in (cm)	CONTAINER SIZE OD in (cm)	CUBE OD cu ft (cu m)	CONTAINER WT lbs (kg)	NSN
61	20.0 x 12.0 x 12.0 (50.8 x 30.48 x 30.48)	20.5 x 12.5 x 12.5 (52.07 x 31.75 x 31.75)	1.854 (0.05562)	2.60 (1.17)	8115-01-008-3645
62	20.0 x 16.0 x 16.0 (50.8 x 40.64 x 40.64)	20.5 x 16.5 x 16.5 (52.07 x 41.91 x 41.91)	3.230 (0.0969)	3.90 (1.755)	8115-00-275-5777
63	20.0 x 20.0 x 6.0 (50.8 x 50.8 x 15.24)	20.5 x 20.5 x 6.5 (52.07 x 52.07 x 16.51)	1.581 (0.04743)	3.53 (1.5885)	8115-00-417-9253
64	20.0 x 20.0 x 12.0 (50.8 x 50.8 x 30.48)	20.5 x 20.5 x 12.5 (52.07 x 52.07 x 31.75)	3.040 (0.0912)	4.30 (1.935)	8115-00-428-4183
65	20.0 x 20.0 x 20.0 (50.8 x 50.8 x 50.8)	20.5 x 20.5 x 20.5 (52.07 x 52.07 x 52.07)	4.986 (0.14958)	5.35 (2.4075)	8115-00-428-4158
66	22.0 x 22.0 x 12.0 (55.88 x 55.88 x 30.48)	22.5 x 22.5 x 12.5 (57.15 x 57.15 x 31.75)	3.662 (0.10986)	5.00 (2.25)	8115-00-428-4145
67	24.0 x 12.0 x 12.0 (60.96 x 30.48 x 30.48)	24.5 x 12.5 x 12.5 (62.23 x 31.75 x 31.75)	2.215 (0.06645)	2.90 (1.305)	8115-01-166-6464
68	24.0 x 14.0 x 14.0 (60.96 x 35.56 x 35.56)	24.5 x 14.5 x 14.5 (62.23 x 36.83 x 36.83)	2.981 (0.08943)	3.60 (1.62)	8115-01-071-2972
69	24.0 x 16.0 x 12.0 (60.96 x 40.64 x 30.48)	24.5 x 16.5 x 12.5 (62.23 x 41.91 x 31.75)	2.924 (0.08772)	3.80 (1.71)	8115-00-183-9481
70	24.0 x 16.0 x 16.0 (60.96 x 40.64 x 40.64)	24.5 x 16.5 x 16.5 (62.23 x 41.91 x 41.91)	3.860 (0.1158)	4.32 (1.944)	8115-00-292-0123
71	24.0 x 18.0 x 18.0 (60.96 x 45.72 x 45.72)	24.5 x 18.5 x 18.5 (62.23 x 46.99 x 46.99)	4.853 (0.14559)	5.00 (2.25)	8115-01-163-9189
72	24.0 x 20.0 x 16.0 (60.96 x 50.8 x 40.64)	24.5 x 20.5 x 16.5 (62.23 x 52.07 x 41.91)	4.796 (0.14388)	5.30 (2.385)	8115-00-417-9236
73	24.0 x 24.0 x 10.0 (60.96 x 60.96 x 25.4)	24.5 x 24.5 x 10.5 (62.23 x 62.23 x 26.67)	3.647 (0.10941)	5.45 (2.4525)	8115-00-428-4124
74	24.0 x 24.0 x 12.0 (60.96 x 60.96 x 30.48)	24.5 x 24.5 x 12.5 (62.23 x 62.23 x 31.75)	4.342 (0.13026)	5.75 (2.5875)	8115-00-174-2354
75	24.0 x 24.0 x 16.0 (60.96 x 60.96 x 40.64)	24.5 x 24.5 x 16.5 (62.23 x 62.23 x 41.91)	5.732 (0.17196)	6.05 (2.7225)	8115-01-119-2523

Table 5-1. Container Standardization Master List – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID in (cm)	CONTAINER SIZE OD in (cm)	CUBE OD cu ft (cu m)	CONTAINER WT lbs (kg)	NSN
76	24.0 x 24.0 x 20.0 (60.96 x 60.96 x 50.8)	24.5 x 24.5 x 20.5 (62.23 x 62.23 x 52.07)	7.121 (0.21363)	6.70 (3.05)	8115-01-166-6451
77	24.0 x 24.0 x 24.0 (60.96 x 60.96 x 60.96)	24.5 x 24.5 x 24.5 (62.23 x 62.23 x 62.23)	8.511 (0.25533)	7.62 (3.429)	8115-00-417-9416
78	26.0 x 12.0 x 8.0 (66.04 x 30.48 x 20.32)	26.5 x 12.5 x 8.5 (67.31 x 31.75 x 21.59)	1.629 (0.04887)	3.00 (1.35)	8115-01-166-6450
79	26.0 x 12.0 x 10.0 (66.04 x 30.48 x 25.4)	26.5 x 12.5 x 10.5 (67.31 x 31.75 x 26.67)	2.013 (0.06039)	3.30 (1.485)	8115-01-166-6449
80	26.0 x 18.0 x 18.0 (66.04 x 45.72 x 45.72)	26.5 x 18.5 x 18.5 (67.31 x 46.99 x 46.99)	5.249 (0.15747)	5.50 (2.475)	8115-01-166-6454
81	26.0 x 26.0 x 20.0 (66.04 x 66.04 x 50.8)	26.5 x 26.5 x 20.5 (67.31 x 67.31 x 52.07)	8.331 (0.2499)	7.00 (3.15)	8115-01-166-6463
82	29.0 x 14.0 x 14.0 (73.66 x 35.56 x 35.56)	29.5 x 14.5 x 14.5 (74.93 x 36.83 x 36.83)	3.589 (0.1077)	4.00 (1.8)	8115-01-166-6447
83	30.0 x 12.0 x 6.0 (76.2 x 30.48 x 15.24)	30.5 x 12.5 x 6.5 (77.47 x 31.75 x 16.51)	1.434 (0.04302)	2.61 (1.1745)	8115-00-190-5017
84	30.0 x 12.0 x 12.0 (76.2 x 30.48 x 30.48)	30.5 x 12.5 x 12.5 (77.47 x 31.75 x 31.75)	2.758 (0.08274)	3.50 (1.575)	8115-01-166-6448
85	30.0 x 16.0 x 16.0 (76.2 x 40.64 x 40.64)	30.5 x 16.5 x 16.5 (77.47 x 41.91 x 41.91)	4.805 (0.1442)	5.00 (2.25)	8115-00-292-0120
86	30.0 x 20.0 x 12.0 (76.2 x 50.8 x 30.48)	30.5 x 20.5 x 12.5 (77.47 x 52.07 x 31.75)	4.523 (0.1357)	4.80 (2.16)	8115-01-163-3446
87	30.0 x 20.0 x 20.0 (76.2 x 50.8 x 50.8)	30.5 x 20.5 x 20.5 (77.47 x 52.07 x 52.07)	7.418 (0.2225)	6.50 (2.925)	8115-01-163-3447
88	30.0 x 26.0 x 20.0 (76.2 x 66.04 x 50.8)	30.5 x 26.5 x 20.5 (77.47 x 67.31 x 52.07)	9.589 (0.2877)	7.10 (3.195)	8115-01-163-3448
89	32.0 x 26.0 x 16.0 (81.28 x 66.04 x 40.64)	32.5 x 26.5 x 16.5 (82.55 x 67.31 x 41.91)	8.224 (0.2467)	6.85 (3.0825)	8115-01-163-9188

Table 5-1. Container Standardization Master List – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID in (cm)	CONTAINER SIZE OD in (cm)	CUBE OD cu ft (cu m)	CONTAINER WT lbs (kg)	NSN
90	32.0 x 26.0 x 26.0 (81.28 x 66.04 x 66.04)	32.5 x 26.5 x 26.5 (82.55 x 67.31 x 67.31)	13.208 (0.3962)	7.60 (3.42)	8115-01-163-3449
91	34.0 x 14.0 x 10.0 (86.36 x 35.56 x 25.4)	34.5 x 14.5 x 10.5 (87.63 x 36.83 x 26.67)	2.895 (0.08685)	3.75 (1.6875)	8115-00-564-8053
92	34.0 x 20.0 x 15.0 (86.36 x 50.8 x 38.1)	34.5 x 20.5 x 15.5 (87.63 x 52.07 x 39.37)	6.344 (0.19032)	6.00 (2.7)	8115-01-166-6455
93	34.0 x 20.0 x 20.0 (86.36 x 50.8 x 50.8)	34.5 x 20.5 x 20.5 (87.63 x 52.07 x 52.07)	8.390 (0.2517)	6.50 (2.925)	8115-01-166-6456
94	36.0 x 12.0 x 12.0 (91.44 x 30.48 x 30.48)	36.5 x 12.5 x 12.5 (92.71 x 31.75 x 31.75)	3.30 (0.099)	3.82 (1.719)	8115-01-166-6457
95	36.0 x 14.0 x 14.0 (91.44 x 35.56 x 35.56)	36.5 x 14.5 x 14.5 (92.71 x 36.83 x 36.83)	4.441 (0.13323)	4.70 (2.115)	8115-00-190-5020
96	36.0 x 24.0 x 22.0 (91.44 x 60.96 x 55.88)	36.5 x 24.5 x 22.5 (92.71 x 62.23 x 57.15)	11.644 (0.34932)	7.20 (3.24)	8115-01-166-5118
97	36.0 x 26.0 x 18.0 (91.44 x 66.04 x 45.72)	36.5 x 26.5 x 18.5 (92.71 x 67.31 x 46.99)	10.355 (0.3107)	6.80 (3.06)	8115-01-166-6453
98	40.0 x 14.0 x 14.0 (101.6 x 35.56 x 35.56)	40.5 x 14.5 x 14.5 (102.87 x 36.83 x 36.83)	4.928 (0.1478)	6.00 (2.7)	8115-01-166-6452

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required)

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
01	4.0 x 4.0 x 4.0 (10.16 x 10.16 x 10.16)	14.0 x 8.0 (35.56 x 20.32)	8.0 x 9.0 (20.32 x 22.86)	9.0 x 9.0 (22.86 x 22.86)	4	2
02	4.0 x 4.0 x 12.0 (10.16 x 10.16 x 30.48)	14.0 x 16.0 (35.56 x 40.64)	8.0 x 17.0 (20.32 x 43.18)	9.0 x 17.0 (22.86 x 43.18)	8	4
03	4.0 x 4.0 x 16.0 (10.16 x 10.16 x 40.64)	14.0 x 20.0 (35.56 x 50.8)	8.0 x 21.0 (20.32 x 53.34)	9.0 x 21.0 (22.86 x 53.34)	10	5
04	5.0 x 5.0 x 20.0 (12.7 x 12.7 x 50.8)	18.0 x 25.0 (45.72 x 63.5)	10.0 x 26.0 (25.4 x 66.04)	11.0 x 26.0 (27.94 x 66.04)	15	7
05	6.0 x 4.0 x 8.0 (15.24 x 10.16 x 20.32)	18.0 x 14.0 (45.72 x 35.56)	10.0 x 15.0 (25.4 x 38.1)	11.0 x 15.0 (27.94 x 38.1)	9	4
06	6.0 x 6.0 x 6.0 (15.24 x 15.24 x 15.24)	22.0 x 12.0 (55.88 x 30.48)	12.0 x 13.0 (30.48 x 33.02)	13.0 x 13.0 (33.02 x 33.02)	9	4
07	6.0 x 6.0 x 10.0 (15.24 x 15.24 x 25.4)	22.0 x 16.0 (55.88 x 40.64)	12.0 x 17.0 (30.48 x 43.18)	13.0 x 17.0 (33.02 x 43.18)	12	6
08	6.0 x 6.0 x 15.0 (15.24 x 15.24 x 38.1)	22.0 x 21.0 (55.88 x 53.34)	12.0 x 22.0 (30.48 x 55.88)	13.0 x 22.0 (33.02 x 55.88)	16	7
09	6.0 x 6.0 x 18.0 (15.24 x 15.24 x 45.72)	22.0 x 24.0 (55.88 x 60.96)	12.0 x 25.0 (30.48 x 63.5)	13.0 x 25.0 (33.02 x 63.5)	18	8
10	6.0 x 6.0 x 24.0 (15.24 x 15.24 x 60.96)	22.0 x 30.0 (55.88 x 76.2)	12.0 x 31.0 (30.48 x 78.74)	13.0 x 31.0 (33.02 x 78.74)	22	10
11	8.0 x 4.0 x 4.0 (20.32 x 10.16 x 10.16)	14.0 x 12.0 (35.56 x 30.48)	8.0 x 13.0 (20.32 x 33.02)	9.0 x 13.0 (22.86 x 33.02)	6	3
12	8.0 x 8.0 x 4.0 (20.32 x 20.32 x 10.16)	22.0 x 12.0 (55.88 x 30.48)	12.0 x 13.0 (30.48 x 33.02)	13.0 x 13.0 (33.02 x 33.02)	9	4
13	8.0 x 8.0 x 8.0 (20.32 x 20.32 x 20.32)	30.0 x 16.0 (76.2 x 40.64)	16.0 x 17.0 (40.64 x 43.18)	17.0 x 17.0 (43.18 x 43.18)	16	7

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
14	8.0 x 8.0 x 10.0 (20.32 x 20.32 x 25.4)	30.0 x 18.0 (76.2 x 45.72)	16.0 x 19.0 (40.64 x 48.26)	17.0 x 19.0 (43.18 x 48.26)	18	8
15	8.0 x 8.0 x 12.0 (20.32 x 20.32 x 30.48)	30.0 x 20.0 (76.2 x 50.8)	16.0 x 21.0 (40.64 x 53.34)	17.0 x 21.0 (43.18 x 53.34)	20	9
16	8.0 x 8.0 x 14.0 (20.32 x 20.32 x 35.56)	30.0 x 22.0 (76.2 x 55.88)	16.0 x 23.0 (40.64 x 58.42)	17.0 x 23.0 (43.18 x 58.42)	22	10
17	8.0 x 8.0 x 16.0 (20.32 x 20.32 x 40.64)	30.0 x 24.0 (76.2 x 60.96)	16.0 x 25.0 (40.64 x 63.5)	17.0 x 25.0 (43.18 x 63.5)	24	11
18	8.0 x 8.0 x 24.0 (20.32 x 20.32 x 60.96)	26.0 x 30.0 (66.04 x 76.2)	14.0 x 31.0 (35.56 x 78.74)	15.0 x 31.0 (38.1 x 78.74)	26	11
19	9.0 x 6.0 x 6.0 (22.86 x 15.24 x 15.24)	22.0 x 5.0 (55.88 x 38.1)	12.0 x 16.0 (30.48 x 40.64)	13.0 x 16.0 (33.02 x 40.64)	11	9
20	9.0 x 6.0 x 18.0 (22.86 x 15.24 x 45.72)	28.0 x 27.0 (71.12 x 68.58)	15.0 x 28.0 (38.1 x 71.12)	16.0 x 28.0 (40.64 x 71.12)	25	11
21	9.0 x 9.0 x 9.0 (22.86 x 22.86 x 22.86)	34.0 x 18.0 (86.36 x 45.72)	18.0 x 19.0 (45.72 x 48.26)	19.0 x 19.0 (48.26 x 48.26)	20	9
22	10.0 x 6.0 x 4.0 (25.4 x 15.24 x 10.16)	18.0 x 14.0 (45.72 x 35.56)	10.0 x 15.0 (25.4 x 38.1)	11.0 x 15.0 (27.94 x 38.1)	9	4
23	10.0 x 6.0 x 10.0 (25.4 x 15.24 x 25.4)	30.0 x 20.0 (76.2 x 50.8)	16.0 x 21.0 (40.64 x 53.34)	17.0 x 21.0 (43.18 x 53.34)	20	9
24	10.0 x 8.0 x 6.0 (25.4 x 20.32 x 15.24)	26.0 x 16.0 (66.04 x 40.64)	14.0 x 17.0 (35.56 x 43.18)	15.0 x 17.0 (38.1 x 43.18)	14	6
25	10.0 x 10.0 x 8.0 (25.4 x 25.4 x 20.32)	34.0 x 18.0 (86.36 x 45.72)	18.0 x 19.0 (45.72 x 48.26)	19.0 x 19.0 (48.26 x 48.26)	20	9
26	10.0 x 10.0 x 10.0 (25.4 x 25.4 x 25.4)	38.0 x 20.0 (96.52 x 50.8)	20.0 x 21.0 (50.8 x 53.34)	21.0 x 21.0 (53.34 x 53.34)	25	11

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
27	10.0 x 10.0 x 12.0 (25.4 x 25.4 x 30.48)	38.0 x 22.0 (96.52 x 55.88)	20.0 x 23.0 (50.8 x 58.42)	21.0 x 23.0 (53.34 x 58.42)	28	11
28	11.0 x 11.0 x 11.0 (27.94 x 27.94 x 27.94)	42.0 x 22.0 (106.68 x 55.88)	22.0 x 23.0 (55.88 x 58.42)	23.0 x 23.0 (58.42 x 58.42)	31	13
29	11.25 x 8.75 x 4.0 (28.58 x 22.23 x 10.16)	24.0 x 15.0 (60.96 x 38.1)	13.0 x 17.0 (33.02 x 43.18)	14.0 x 17.0 (35.56 x 43.18)	13	6
30	11.25 x 8.75 x 18.0 (28.58 x 22.23 x 45.72)	38.0 x 29.0 (96.52 x 73.66)	20.0 x 31.0 (50.8 x 78.74)	21.0 x 31.0 (53.34 x 78.74)	37	16
31	12.0 x 6.0 x 6.0 (30.48 x 15.24 x 15.24)	22.0 x 18.0 (55.88 x 45.72)	12.0 x 19.0 (30.48 x 48.26)	13.0 x 19.0 (33.02 x 48.26)	14	6
32	12.0 x 6.0 x 12.0 (30.48 x 15.24 x 30.48)	34.0 x 24.0 (86.36 x 60.96)	18.0 x 25.0 (45.72 x 63.5)	19.0 x 25.0 (48.26 x 63.5)	27	12
33	12.0 x 6.0 x 15.0 (30.48 x 15.24 x 38.1)	34.0 x 27.0 (86.36 x 68.58)	18.0 x 28.0 (45.72 x 71.12)	19.0 x 28.0 (48.26 x 71.12)	30	13
34	12.0 x 9.0 x 6.0 (30.48 x 22.86 x 15.24)	28.0 x 18.0 (71.12 x 45.72)	15.0 x 19.0 (38.1 x 48.26)	16.0 x 19.0 (40.64 x 48.26)	17	8
35	12.0 x 9.5 x 9.5 (30.48 x 24.13 x 24.13)	36.0 x 21.0 (91.44 x 53.34)	19.0 x 23.0 (48.26 x 58.42)	20.0 x 23.0 (50.8 x 58.42)	26	11
36	12.0 x 12.0 x 4.0 (30.48 x 30.48 x 10.16)	30.0 x 16.0 (76.2 x 40.64)	16.0 x 17.0 (40.64 x 43.18)	17.0 x 17.0 (43.18 x 43.18)	16	7
37	12.0 x 12.0 x 8.0 (30.48 x 30.48 x 20.32)	38.0 x 20.0 (96.52 x 50.8)	20.0 x 21.0 (50.8 x 53.34)	21.0 x 21.0 (53.34 x 53.34)	25	11
38	12.0 x 12.0 x 10.0 (30.48 x 30.48 x 25.4)	42.0 x 22.0 (106.68 x 55.88)	22.0 x 23.0 (55.88 x 58.42)	23.0 x 23.0 (58.42 x 58.42)	30	13
39	12.0 x 12.0 x 12.0 (30.48 x 30.48 x 30.48)	46.0 x 24.0 (116.84 x 60.96)	24.0 x 25.0 (60.96 x 63.5)	25.0 x 25.0 (63.5 x 63.5)	36	15

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
40	12.0 x 12.0 x 14.0 (30.48 x 30.48 x 35.56)	46.0 x 26.0 (116.84 x 66.04)	24.0 x 27.0 (60.96 x 68.58)	25.0 x 27.0 (63.5 x 68.58)	39	17
41	13.0 x 13.0 x 13.0 (33.02 x 33.02 x 33.02)	50.0 x 26.0 (127.0 x 66.04)	26.0 x 27.0 (66.04 x 68.58)	27.0 x 27.0 (68.58 x 68.58)	42	18
42	14.0 x 10.0 x 6.0 (35.56 x 25.4 x 15.24)	30.0 x 20.0 (76.2 x 50.8)	16.0 x 21.0 (40.64 x 53.34)	17.0 x 21.0 (53.34 x 53.34)	20	9
43	14.0 x 10.0 x 10.0 (35.56 x 25.4 x 25.4)	38.0 x 24.0 (96.52 x 60.96)	20.0 x 25.0 (50.8 x 63.5)	21.0 x 25.0 (53.34 x 63.5)	30	13
44	14.0 x 12.0 x 8.0 (35.56 x 30.48 x 20.32)	38.0 x 22.0 (96.52 x 55.88)	20.0 x 23.0 (50.8 x 58.42)	21.0 x 23.0 (53.34 x 58.42)	28	12
45	14.0 x 14.0 x 12.0 (35.56 x 35.56 x 30.48)	46.0 x 24.0 (116.84 x 60.96)	24.0 x 25.0 (60.96 x 63.5)	25.0 x 25.0 (63.5 x 63.5)	36	15
46	14.0 x 14.0 x 14.0 (35.56 x 35.56 x 35.56)	50.0 x 26.0 (127.0 x 66.04)	26.0 x 27.0 (66.04 x 68.58)	27.0 x 27.0 (68.58 x 68.58)	42	18
47	14.0 x 14.0 x 16.0 (35.56 x 35.56 x 40.64)	50.0 x 28.0 (127.0 x 71.12)	26.0 x 29.0 (66.04 x 73.66)	27.0 x 29.0 (68.58 x 73.66)	46	15
48	14.0 x 14.0 x 18.0 (35.56 x 35.56 x 45.72)	58.0 x 30.0 (147.32 x 76.2)	30.0 x 31.0 (76.2 x 78.74)	31.0 x 31.0 (78.74 x 78.74)	56	24
49	15.0 x 15.0 x 10.0 (38.1 x 38.1 x 25.4)	44.0 x 23.0 (111.76 x 58.42)	23.0 x 24.0 (58.42 x 60.96)	24.0 x 24.0 (60.96 x 60.96)	33	14
50	16.0 x 10.0 x 10.0 (40.64 x 25.4 x 25.4)	38.0 x 26.0 (96.52 x 66.04)	20.0 x 27.0 (50.8 x 68.58)	21.0 x 27.0 (53.34 x 68.58)	33	14
51	16.0 x 12.0 x 8.0 (40.64 x 30.48 x 20.32)	38.0 x 24.0 (96.52 x 60.96)	20.0 x 25.0 (50.8 x 63.5)	21.0 x 25.0 (53.34 x 63.5)	30	13
52	16.0 x 12.0 x 12.0 (40.64 x 30.48 x 30.48)	42.0 x 26.0 (106.68 x 66.04)	22.0 x 27.0 (55.88 x 68.58)	23.0 x 27.0 (58.42 x 68.58)	36	15

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
53	16.0 x 16.0 x 12.0 (40.64 x 40.64 x 30.48)	50.0 x 26.0 (127.0 x 66.04)	26.0 x 27.0 (66.04 x 68.58)	27.0 x 27.0 (68.58 x 68.58)	42	18
54	16.0 x 16.0 x 16.0 (40.64 x 40.64 x 40.64)	58.0 x 30.0 (147.32 x 76.2)	30.0 x 31.0 (76.2 x 78.74)	31.0 x 31.0 (78.74 x 78.74)	56	24
55	18.0 x 12.0 x 12.0 (45.72 x 30.48 x 30.48)	42.0 x 28.0 (106.68 x 71.12)	22.0 x 29.0 (55.88 x 73.66)	23.0 x 29.0 (58.42 x 73.66)	39	17
56	18.0 x 15.0 x 10.0 (45.72 x 38.1 x 25.4)	44.0 x 26.0 (111.76 x 66.04)	23.0 x 27.0 (58.42 x 68.58)	24.0 x 27.0 (60.96 x 68.58)	38	16
57	18.0 x 15.0 x 15.0 (45.72 x 38.1 x 38.1)	54.0 x 31.0 (137.16 x 78.74)	28.0 x 32.0 (71.12 x 81.28)	29.0 x 32.0 (73.66 x 81.28)	54	23
58	18.0 x 18.0 x 12.0 (45.72 x 45.72 x 30.48)	54.0 x 28.0 (137.16 x 71.12)	28.0 x 29.0 (71.12 x 73.66)	29.0 x 29.0 (73.66 x 73.66)	49	21
59	18.0 x 18.0 x 18.0 (45.72 x 45.72 x 45.72)	66.0 x 34.0 (167.64 x 86.36)	34.0 x 35.0 (86.36 x 88.9)	35.0 x 35.0 (88.9 x 88.9)	72	30
60	20.0 x 10.0 x 10.0 (50.8 x 25.4 x 25.4)	34.0 x 28.0 (86.36 x 71.12)	18.0 x 29.0 (45.72 x 73.66)	19.0 x 29.0 (48.26 x 48.26)	32	14
61	20.0 x 12.0 x 12.0 (50.8 x 30.48 x 30.48)	42.0 x 30.0 (106.68 x 76.2)	22.0 x 31.0 (55.88 x 78.74)	23.0 x 31.0 (58.42 x 78.74)	40	18
62	20.0 x 16.0 x 16.0 (50.8 x 40.64 x 40.64)	58.0 x 34.0 (147.32 x 86.36)	30.0 x 35.0 (76.2 x 88.9)	31.0 x 35.0 (78.74 x 88.9)	64	27
63	20.0 x 20.0 x 6.0 (50.8 x 50.8 x 15.24)	46.0 x 24.0 (116.84 x 60.96)	24.0 x 25.0 (60.96 x 63.5)	25.0 x 25.0 (63.5 x 63.5)	36	16
64	20.0 x 20.0 x 12.0 (50.8 x 50.8 x 30.48)	58.0 x 30.0 (147.32 x 76.2)	30.0 x 31.0 (76.2 x 78.74)	31.0 x 31.0 (78.74 x 78.74)	56	24
65	20.0 x 20.0 x 20.0 (50.8 x 50.8 x 50.8)	74.0 x 38.0 (187.96 x 96.52)	38.0 x 39.0 (96.52 x 99.06)	39.0 x 39.0 (99.06 x 99.06)	89	37

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
66	22.0 x 22.0 x 12.0 (55.88 x 55.8 x 30.48)	62.0 x 32.0 (157.48 x 81.28)	32.0 x 33.0 (81.28 x 83.82)	33.0 x 33.0 (83.82 x 83.82)	64	27
67	24.0 x 12.0 x 12.0 (60.96 x 30.48 x 30.48)	42.0 x 34.0 (106.68 x 86.36)	22.0 x 35.0 (55.88 x 88.9)	23.0 x 35.0 (58.42 x 88.9)	47	20
68	24.0 x 14.0 x 14.0 (60.96 x 35.56 x 35.56)	50.0 x 34.0 (127.0 x 86.36)	26.0 x 37.0 (66.04 x 93.98)	27.0 x 37.0 (68.58 x 93.98)	56	24
69	24.0 x 16.0 x 12.0 (60.96 x 40.64 x 30.48)	50.0 x 34.0 (127.0 x 86.36)	26.0 x 35.0 (66.04 x 88.9)	27.0 x 35.0 (68.58 x 88.9)	55	23
70	24.0 x 16.0 x 16.0 (60.96 x 40.64 x 40.64)	58.0 x 38.0 (147.32 x 96.52)	30.0 x 39.0 (76.2 x 99.06)	31.0 x 39.0 (78.74 x 99.06)	71	30
71	24.0 x 18.0 x 18.0 (60.96 x 45.72 x 45.72)	66.0 x 40.0 (167.64 x 101.6)	34.0 x 41.0 (86.36 x 104.14)	35.0 x 41.0 (88.9 x 104.14)	85	35
72	24.0 x 20.0 x 16.0 (60.96 x 50.8 x 40.64)	66.0 x 38.0 (167.64 x 96.52)	34.0 x 39.0 (86.36 x 99.06)	35.0 x 39.0 (88.9 x 99.06)	81	34
73	24.0 x 24.0 x 10.0 (60.96 x 60.96 x 25.4)	62.0 x 32.0 (157.48 x 81.28)	34.0 x 33.0 (86.36 x 83.82)	35.0 x 33.0 (88.9 x 83.82)	65	28
74	24.0 x 24.0 x 12.0 (60.96 x 60.96 x 30.48)	66.0 x 34.0 (167.64 x 86.36)	34.0 x 35.0 (86.36 x 88.9)	35.0 x 35.0 (88.9 x 88.9)	72	30
75	24.0 x 24.0 x 16.0 (60.96 x 60.96 x 40.64)	74.0 x 38.0 (187.96 x 96.52)	38.0 x 39.0 (96.52 x 99.06)	39.0 x 39.0 (99.06 x 99.06)	90	37
76	24.0 x 24.0 x 20.0 (60.96 x 60.96 x 50.8)	82.0 x 42.0 (208.28 x 106.68)	42.0 x 43.0 (106.68 x 109.22)	43.0 x 43.0 (109.22 x 109.22)	110	45
77	24.0 x 24.0 x 24.0 (60.96 x 60.96 x 60.96)	90.0 x 46.0 (228.6 x 116.84)	46.0 x 47.0 (116.84 x 119.38)	47.0 x 47.0 (119.38 x 119.38)	132	54
78	26.0 x 12.0 x 8.0 (66.04 x 30.48 x 20.32)	34.0 x 32.0 (86.36 x 81.28)	18.0 x 33.0 (45.72 x 83.82)	19.0 x 33.0 (48.26 x 83.82)	36	15

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
79	26.0 x 12.0 x 10.0 (66.04 x 30.48 x 25.4)	38.0 x 34.0 (96.52 x 86.36)	20.0 x 35.0 (50.8 x 88.9)	21.0 x 35.0 (53.34 x 88.9)	42	18
80	26.0 x 18.0 x 18.0 (66.04 x 45.72 x 45.72)	66.0 x 42.0 (167.64 x 106.68)	34.0 x 43.0 (86.36 x 109.22)	35.0 x 43.0 (88.9 x 109.22)	89	37
81	26.0 x 26.0 x 20.0 (66.04 x 66.04 x 50.8)	86.0 x 44.0 (218.44 x 111.76)	44.0 x 45.0 (111.76 x 114.3)	45.0 x 45.0 (114.3 x 114.3)	121	50
82	29.0 x 14.0 x 14.0 (73.66 x 35.56 x 35.56)	50.0 x 41.0 (127.0 x 104.14)	26.0 x 42.0 (66.04 x 106.68)	27.0 x 42.0 (68.58 x 106.68)	66	28
83	30.0 x 12.0 x 6.0 (76.2 x 30.48 x 15.24)	30.0 x 34.0 (76.2 x 86.36)	16.0 x 35.0 (40.64 x 88.9)	17.0 x 35.0 (43.18 x 88.9)	34	15
84	30.0 x 12.0 x 12.0 (76.2 x 30.48 x 30.48)	42.0 x 40.0 (106.68 x 101.6)	22.0 x 41.0 (55.88 x 104.14)	23.0 x 41.0 (58.42 x 104.14)	55	23
85	30.0 x 16.0 x 16.0 (76.2 x 40.64 x 40.64)	58.0 x 44.0 (147.32 x 111.76)	30.0 x 45.0 (76.2 x 114.3)	31.0 x 45.0 (78.74 x 114.3)	82	34
86	30.0 x 20.0 x 12.0 (76.2 x 50.8 x 30.48)	58.0 x 40.0 (147.32 x 101.6)	30.0 x 41.0 (76.2 x 104.14)	31.0 x 41.0 (78.74 x 104.14)	75	31
87	30.0 x 20.0 x 20.0 (76.2 x 50.8 x 50.8)	74.0 x 48.0 (187.96 x 121.92)	38.0 x 49.0 (96.52 x 124.46)	39.0 x 49.0 (99.06 x 124.46)	113	47
88	30.0 x 26.0 x 20.0 (76.2 x 66.04 x 50.8)	86.0 x 48.0 (218.44 x 121.92)	44.0 x 49.0 (111.76 x 124.46)	45.0 x 49.0 (114.3 x 124.46)	131	54
89	32.0 x 26.0 x 16.0 (81.28 x 66.04 x 40.64)	78.0 x 46.0 (198.12 x 116.84)	40.0 x 47.0 (101.6 x 119.38)	41.0 x 47.0 (104.14 x 119.38)	115	47
90	32.0 x 26.0 x 26.0 (81.28 x 66.04 x 66.04)	98.0 x 56.0 (248.92 x 142.24)	50.0 x 57.0 (127.0 x 144.78)	51.0 x 57.0 (129.54 x 144.78)	174	71
91	34.0 x 14.0 x 10.0 (86.36 x 35.56 x 25.4)	42.0 x 42.0 (106.68 x 106.68)	22.0 x 43.0 (55.88 x 109.22)	23.0 x 43.0 (58.42 x 109.22)	57	24

Table 5-2. Standard Pack Wraps, Bags, and Desiccant Units (As Required) – CONT

CONTAINER SIZE CODE	CONTAINER SIZE ID (in) (cm)	WRAP	BARRIER BAG	BARRIER BAG	UNITS OF DESICCANT W/PRES CODE 4 *CELL/SYN	
		(NOTE 1)	(NOTE 2)	(NOTE 3)		
92	34.0 x 20.0 x 15.0 (86.36 x 50.8 x 38.1)	64.0 x 47.0 (162.56 x 119.38)	33.0 x 48.0 (83.82 x 121.92)	34.0 x 48.0 (86.36 x 121.92)	96	40
93	34.0 x 20.0 x 20.0 (86.36 x 50.8 x 50.8)	74.0 x 52.0 (187.96 x 132.08)	38.0 x 53.0 (96.52 x 134.62)	39.0 x 53.0 (99.06 x 134.62)	123	51
94	36.0 x 12.0 x 12.0 (91.44 x 30.48 x 30.48)	42.0 x 46.0 (106.68 x 116.84)	22.0 x 47.0 (55.88 x 119.38)	23.0 x 47.0 (58.42 x 119.38)	63	27
95	36.0 x 14.0 x 14.0 (91.44 x 35.56 x 35.56)	50.0 x 48.0 (127.0 x 121.92)	26.0 x 49.0 (66.04 x 124.46)	27.0 x 49.0 (68.58 x 124.46)	77	32
96	36.0 x 24.0 x 22.0 (91.44 x 60.96 x 55.88)	86.0 x 56.0 (218.44 x 142.24)	44.0 x 57.0 (111.76 x 144.78)	45.0 x 57.0 (114.3 x 144.78)	152	63
97	36.0 x 26.0 x 18.0 (91.44 x 66.04 x 45.72)	82.0 x 52.0 (208.28 x 132.08)	42.0 x 53.0 (106.68 x 134.62)	43.0 x 53.0 (109.22 x 134.62)	136	56
98	40.0 x 14.0 x 14.0 (101.6 x 35.56 x 35.56)	50.0 x 52.0 (127.0 x 132.08)	26.0 x 53.0 (66.04 x 134.62)	27.0 x 53.0 (68.58 x 134.62)	84	35

**NOTE 1:** L-P-378, MIL-B-121, PPP-C-1842, PPP-C-795 with Preservative Codes 1 through 7, and PPP-C-1842 (Type III), or MIL-B-81705 (Type II) with Preservative Code 9.

**NOTE 2:** MIL-B-121 (Grade A, Class 1) with Preservative Codes 2 or 6.

**NOTE 3:** MIL-B-131 with Preservative Codes 3, 4, or 7, and MIL-B-81705 (Type I) with Preservative Code 9.

\* Cellulose/Synthetic

Table 5-3. Standard Pack Materials

Specification Number	Description	National Stock Number
PPP-T-60	Tape, pressure-sensitive, waterproof, tan, 2" (5.08 cm) wide	7510-00-079-7906*
MIL-B-121	Barrier, greaseproof, waterproof, flexible, heat-sealable	8135-00-233-3871*
MIL-P-130	Paper, wrapping, laminated and creped	8135-00-680-2777*
MIL-B-131	Barrier, water vapor proof, flexible, heat-sealable, Class 1 for general use	8135-00-282-0565*
	Class 2 for small packages under 10 lbs. (4.5 kg) and under 40 cu in (101.6 cubic cm) in volume	8135-00-282-8256
L-P-378	Film, polyolefin, transparent, 0.0004" (0.001016 cm) thick	8135-00-068-9466*
PPP-C-795	Film, cellular plastic, heat-sealable, 0.1875" (0.4763 cm) thick	8135-00-142-9016
	Film, cellular plastic, heat-sealable, 0.5" (1.27 cm) thick	8135-00-926-8991
VV-L-800	P-9, very light preservative oil, water-displacing (cold application) 1.0 qt (0.946 L)	9150-00-231-6689
PPP-C-1120	Cushioning, bound fiber, water-resistant, 1.0" (2.5 cm) thick	8135-00-656-1044
	Cushioning, bound fiber, water-resistant, 2.0" (5.08 cm) thick	8135-00-543-6844
PPP-C-1797	Cushioning, unicellular polypropylene foam, flexible, 0.25" (0.635 cm)	8135-00-300-4905
PPP-C-1752	Cushioning, unicellular polypropylene foam, flexible, (GSA Supply Catalog as MIL-C-46842) 0.5" (1.27 cm)	8135-00-180-5922
PPP-C-1842	Cushioning material, plastic, open cell	8135-01-087-3599
MIL-D-3464	Desiccant 4 Unit (paper bag)	6840-00-264-6574
	Desiccant 8 Unit (cloth bag)	6840-00-264-6571
	Desiccant 16 Unit (cloth bag)	6840-00-264-6572
MIL-C-16173	P-2, Thin, soft film preservative (cold application) Grade III	8030-00-837-6557*
MIL-P-17667	Paper, wrapping, chemically neutral, flat	8135-00-558-1242*
	Stretchable, creped	8135-00-558-1245*
MIL-F-22191	Barrier, transparent, flexible, heat-sealable, Type I	8135-00-079-2415*

Table 5-3. Standard Pack Materials - CONT

Specification Number	Description	National Stock Number
MIL-P-26514	Cushioning, polyurethane foam, flexible, Type I, roll 1.0" (2.54 cm) thick	8135-00-116-1443
	Sheet, 3.0" (7.62 cm) thick	8135-00-052-9077
MIL-P-81997	Pouches, cushioned, flexible, electrostatic free, reclosable, transparent, 10.0" x 10.0" (25.4 cm x 25.4 cm)	8105-01-197-2966
MIL-B-81705	Barrier material, flexible, electrostatic free, heat-sealable	
	Type I	8135-00-092-3220
	Type II	9330-00-113-9438

\*NOTE: See GSA Supply Catalog for ordering details.



**APPENDIX A**  
**LIST OF ACRONYMS**

AFMC	Air Force Materiel Command
AFPEA	Air Force Packaging Evaluation Activity
ALC	Air Logistic Center
cm	Centimeter
ERRC	Expendability - Recoverability - Repairability Category
ESD	Electrostatic Discharge
ESDS	ESD Sensitive
IAW	in accordance with
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
kg	kilogram
L	liter
mm	millimeter
NIIN	National Item Identification Number
NSN	national stock number
PCN	Product Control Number
RIC	Routing Identifier Code
SI	Le Systeme International d'Unites
SPI	special packaging instructions
SPS	Spares Packaging Standardization
TO	technical order
TRC	Technology Repair Center

