

ASA CONFERENCE 2023

AIM Solutions Consulting

• **PRESENTS**:

• Fundamentals of ATA Specification 300: Specification for Packaging of Airline Supplies

• Packaging for the Government/Military per MIL-STD-2073



ATA Spec 300

Specification for Packaging of

Airline Supplies

Revision (2020.1)

The information presented in this class is based on this version of the specification

Note that 'Airlines for America' was originally called the 'Air Transport Association' (ATA).

Thus, when the specification was first written it was 'ATA Spec 300' and has remained so for industry familiarity despite the association's name change

Airlines for America 1301 Pennsylvania Avenue., NW - Suite 1100 Washington, DC 20004-1707 202-626-4000

Airlines for America[®] We Connect the World



WHY THIS SPEC?

- CASE Standard 3A, paragraph 5.A states: "The ... quality system shall require components and parts be shipped in an ATA 300 specification container or equivalent as appropriate for the unit being shipped, or as specified by the customer."
- ATA SPEC 106 states: "The supplier shall use ATA spec 300 packaging or customer specified packaging when appropriate."
- ASA Standard 100, paragraph 11.A States: "The ... quality system shall require components and parts be shipped in an ATA 300 specification container or equivalent as appropriate for the unit being shipped, or as specified by the customer."



COMPONENT MAINTENANCE MANUAL Document Part No.

ASSEMBLY (INCLUDING STORAGE)

TASK 71-50-03-500-801

- Assembly (Including Storage)
 - A. Assembly Tools Not applicable
 - B. Assembly Procedures Not applicable
 - C. Storage.
 - This section gives the instructions to give the protection to the wire harness while the harness is in the storage.
 - D. Preservation and Packaging (See Table 701).
 - NOTE: YOU CAN USE ALTERNATIVE MATERIALS WITH THE SAME PROPERTIES TO REPLACE THE ITEMS SHOWN IN TABLE 701.

| DESCRIPTION | | 1 | DESIGNATION | MANUFACTURER | | | | | |
|-------------|---------------------------|-------|--|---|--|--|--|--|--|
| | Container | | ATA 300, Class II | | | | | | |
| | Desiccant | | MIL-D-3464D | Commerciary Available | | | | | |
| | Grease-proof | Paper | | Commercially Available | | | | | |
| | Heat-sealable Covering | | | Commercially Available | | | | | |
| | | | Storage Materi tb-715003- | als Table 701 -991–889 | | | | | |
| | (1) | Pres | servation. | | | | | | |
| | | (a) | Put protective caps on the connectors. | | | | | | |
| | | (b) | Put grease-proof paper on the harness. | | | | | | |
| | | (c) | Put the desiccant packets on the harness. | | | | | | |
| | | (d) | Put the harness in the heat-sealable cover. | | | | | | |
| | | (e) | Put a desiccant packet and a h the heat-sealable cover. | numidity indicator behind the transparent window in | | | | | |
| (f) R | | | Remove the air from the heat-sealable cover. | | | | | | |
| | | (g) | Seal the heat-sealable cover. | al the heat-sealable cover. | | | | | |
| | | | | | | | | | |

WHY THIS SPEC?

Excerpt of a CMM



WHY THIS SPEC?

• Your customer's PO/RO or agreement may refer to it.

If this appears as a requirement, <u>make</u> <u>sure</u> your pricing includes a line for the cost of the box/container!



ValueFlite Airways

664 Beck St. Bronx, NY 10455 718-665-0676 www.valueflite.aero

PURCHASE ORDER: 10258

DATE: 1 March 2021

ISSUED TO: Lockheed Martin Commercial Engine Solutions 7171 Côte Vertu West Saint-Laurent, Québec H4S1Z3 Canada ATTN: Sal Scalone SHIP TO: ValueFlite Airways 664 Beck St. Bronx, NY 10455

PN: T DESCRIPTION: F CONDITION: C PRICE: \$

TEEC2000-04-AE FADEC Overhauled \$11500.00

Notes:

Ship FedEx P1 to noted location, account number 2133456987
 Trace to 121, 129, or 145
 Dual Release
 Packaged in ATA Spec 300 Category I Container

1) New parts must be traceable to the Production Approval Holder 2) OH, Repaired, Inspected, Tested, Modified parts:

- Any AD's performed must be clearly noted
- Trace must include non-incident statements



WHY THIS SPEC?

The Spec, first released in 1960, was created by the ATA by an airline committee for the purpose of standardizing packaging of airline parts so as to minimize shipping damage and preserve the parts.

1-1. Purpose

This functional specification establishes guidelines for the packaging of aircraft parts and supplies shipped to an airline and contains minimum recommendations of the airline industry to be used in the design, development, and procurement of effective packaging.



ARE THERE OTHER PACKING SPECIFICATIONS?

MIL-STD-2073-1E w/CHANGE 1 <u>7 January 2011</u> SUPERSEDING MIL-STD-2073-1E 23 May 2008

DEPARTMENT OF DEFENSE

STANDARD PRACTICE FOR MILITARY PACKAGING







ARE THERE OTHER PACKING SPECIFICATIONS?

Designation: D3951 - 10

Standard Practice for Commercial Packaging¹

This standard is reased under the fixed designation (1035); the mondre semediately following the designation indicates the year of original adoption or, in the case of revision, the year of test periods a A number is parentless indicates the year of last proposed. A superscript genetic (c) indicates an adversal change roles the last periods or stopperval.

This standard has been approved for use by aggreits of the Department of Deferre.

I. Scope

 This practice establishes minimum requirements for packaging of supplies and equipment, exclusive of ammunition, explosives, or hazardons materials, as covered in Title 49 of the Code of Federal Regulations.

 The values stated in incl-pound units are to be regarded as standard. No other units of measurement are included in this standard.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicahility of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards.²

D996 Terminology of Packaging and Distribution Environments

D1974 Practice for Methods of Closing, Scaling, and Reinforcing Fiberboard Boxes

D4169 Practice for Performance Testing of Shipping Containers and Systems

D5118-D5118M Practice for Fabrication of Fiberboard Shipping Boxes

D5168 Practice for Fabrication and Closure of Triple-Wall Corrugated Fiberboard Containers

105445 Practice for Pictorial Markings for Handling of Goods

D6039/D6039/M Specification for Open and Covered Wood Crates

D0251/D0251M Specification for Wood-Cleated Panelboard Shipping Boxes

D6254/D6254M Specification for Wireboard Pallet-Type Wood Boxes

¹⁷ This practice to under the paradecises of ASTM Communic 1969 on Packaging and in the devect responsibility of Subcommitting D18-18 on Missellansons Packaging (Diobaskof 8/2010).

Cienese adoton approval Aug. 15, 2008. Published September 2010. Originally approved in 1990. Last pervision addisis, approved in 2004 as D01937 - 94 (2004). DOI: 10.3520/200951-05.

² For relationed ASTM standards, usid the ASTM website, www.astm.org. or constant ASTM Constoner Service at service/gisting-rep. For doward Bool of ASTM listendardy-visional indicatacion, white to the standard's Oscianzeit Nationary page on the ASTM website. D6255/D6255M Specification for Steel or Aluminum Slotted Angle Crates D6256/D6256M Specification for Wood-Cleated Shipping

Boxes with Skidded, Load-Bearing Bases D6880 Specification for Wood Boxes D7478/D7478M Specification for Heavy Daty Sheathed

Wood Crates

- 2.2 Code of Federal Regulations.³ Title 49 Transportation (Parts 100 to 199)
- 2.3 Military and Federal Standards.⁴
- 2.5 Milliary and Federal Standon

MIL-STD-129 Military Marking for Shipment and Storage MIL-STD-2073-1 Standard Practice for Military Packaging FED-STD-123 Marking for Shipment (Civil Agencies) 2.4 International Standards,¹

ISPM Publication No. 15 Regulation of Wood Packaging Material in International Trade (International Standards for Phytosanitary Measures (ISPM))

3. Terminology

3.1 Terminology found in Terminology D996 shall apply.

3.2 Definitions of Terms Specific to This Standard. 3.2.1 CONUS—Continental United States (excluding Ha-

waii and Alaska). 3.2.2 immediate inse-used or consumed within seven days.

of receipt. 3.2.3 safe delivery - in packaging--delivery of a shipment

to its destination with minimal damage to the package and no damage to the contents.

4. Significance and Use

4.1 This practice covers the requirements for the commercial preservation, packaging, packing (exterior container), unitization, and marking for supplies and equipment. It prevides for multiple handling and shipment by any mode, and storage periods of a minimum of one year in enclosed facilities without damage to the product. It also provides for package

¹ Available from Superintendant of Documents, U.S. Generation Printing Office, Workington, DC 20402.

¹ Avislable from Document Automation and Perduction Service, Building CD, 700 Robbins Assume: Philodelphia, 19, 19113-5084, http://axioi.dogs.dla.mll producersh.

¹ Available from the International Plant Portugion Convertion at http:// www.aplait.acda.gov/import_expert/plant-plant_splant_experts/repairinder.dired.

Cosynght & AUFM International, HD Bart Harbar Drive, PO Box 2700, West Constructions, Ph. 19426-2968, United Status

There is also this ASTM International Specification D3951:

Standard Practice for Commercial Packaging

(The revision shown is not the latest)

Two blondes walk into a building... You'd think one of them would have seen it!!





THE BASICS:

For the purpose of this specification, reusable shipping containers are designated as follows:

Category I Reusable for a minimum of 100 round-trips

Category II Reusable for a minimum of 10 round-trips

Category III Usable for a minimum of 1 trip



Category I Reusable for a minimum of 100 round-trips

THE BASICS:

Informally, think of this category for crazy expensive parts or when specified by the customer

Category II Reusable for a minimum of 10 round-trips



Whereas this category is generally for Rotables

Category III Usable for a minimum of 1 trip

















These are all Category I containers





By the way, ATA Category 1 containers are also used for sensitive music equipment and in other industries



\$391.00

1/2" ATA Music Case for 100 Watt Amp Head - Extra Heavy Duty Small Amp Head -Hinged



1/2" ATA Music Case for 115 Combo Amp -Extra Heavy Duty 115 Combo - POC



1/2" ATA Music Case for 210 Combo - Extra Heavy Duty 210 Combo - POC



1/2" ATA Music Case for 212 Amp - Extra Heavy Duty 212 Combo - POC



In fact, if Category I containers are required, nearly everyone contracts with specialists who are experienced at engineering the design and meeting the specs

Why is that so?



B-2-2. Flame Penetration and Thermal Resistance

Outer packaging used to transport as air cargo cylinders containing compressed oxygen, other compressed, oxidizing gasses, or oxygen generators must comply with applicable regulations including flame penetration and thermal resistance tests and documentation of the tests.

B-2-3. Water Resistance

Category I containers shall be resistant to normal precipitation

B-2-4. Vibration Test for Category I Containers

Vibration tests shall be conducted on Category I containers in accordance with ASTM Designation D-999 [ASTM D-999], Procedural Method B, within the range of 5 to 50 cycles per second for a period of not less than two (2) hours.

Note:

^{2.} Impact Test

EDGE IMPACT SEQUENCE AT EACH VELOCITY

CORNER IMPACT SEQUENCE AT EACH VELOCITY

1.5, 1.2, 1.6, 1.4, 3.5, 3.2

1 3-6, 3-4, 5-2, 5-4, 6-2, 6-4

2-3-6, 6-3-4, 4-3-5, 5-3-2,

1 2.1.6, 6.1.4, 4.1.5, 5.1.2

B-2-5. Penetration Test for Category I Containers

All Category I containers must be capable of passing the impact resistance test which consists of a bar of 3.2 centimeters in diameter with a hemispherical end, weighing 6 kilograms being dropped with its longitudinal axis vertical, onto the weakest point of any exterior surface of the container. The drop shall be 0.5 meters from the bottom of the bar to the top of the container surface. Failure occurs if the bar either penetrates the outer wall or permanently damages it in a manner which will degrade the structural strength of the container or container wall.

Compliant Category I containers have to demonstrate conformity with numerous engineering-ATA Specification 30 level specifications

The height of drop tests shall be determined by satisfaction of BOTH the determined by satisfaction of BOTH the

The height of drop tests shall be determined by satisfaction of BOTH the between 50 and 100 lbs. having a maximum dimension of any edge between /

Gross Weight and the Dimensions criteria. For example, a container weight and to 100 lbs, having a maximum dimension of any edge between a discrete dropped 21 inches for Category 1 and 16 inches /

between 50 and 100 lbs, having a maximum dimension of any edge between for Category I. For a Category I container. the total number of drops shall be

⁴⁸ and 60 inches shall be face dropped 21 inches for Category II. For a Category I container, the total number of and 16 inches 280 drops, all of which must be conducted on a single test specimen, For a Category I and 16 inches /

for Category II. For a Category I container, the total number of drops shall be conducted on a single test specimen. For a Category II container, the total number of drops shall be 28 drops. all of which

280 drops, all of which must be conducted on a single test specimen. For a must be conducted on a single test specimen. For a single test specimen.

This sequence will be performed with one impact on each edge in segmence shown at the following velocities: 6 ft

 $\int_{edge in sequence will be performed with one impact on each ner can 2 th ner can 10 th ner can and 12 th the following velocities: 6 th ner can free ca$

/ edge in sequence shown, at the following velocities: 6 it. total of of inmacts on the container edges (Two complete

/ per sec. 8 ft per sec. 10 ft per sec. and 12 ft per sec. for a container edges (Two complete

This sequence will be performed with one impact on each of the following velocities: 6 ft

 $\frac{This sequence will be performed with one unpact on each one for a final sequence shown at the following velocities: of the following velocities: of the following reaction of the following reaction$

/ comer in sequence shown at the following velocities: o it. / per sec., & f. per sec., 10 f. per sec., and 12 ft. per sec. o it. intal of 15g immarks on the container comers (Four

/ Per sec. 8 ft. Per sec. 10 ft. Per sec. and 12 ft. Per sec. / total of 128 impacts on the container content of 12 ft. Per sec. complete cvcles of 32 impacts each)

must be conducted on a single test specimen.

Impact Tests shall be conducted in accordance with [Table B-2-12] of this section.

GROSS WEIGHT OF CONTAINER AND LOAD SHALL NOT EXCEED 1000



<u>Customers want their</u> <u>Category I containers</u> <u>back!</u>

- 1) They want their logo or name permanently marked on the box
- 2) In some cases, they specify that their name be 'hot branded' into the case to make it harder for persons to peel off their name or logo



Here is an example that a customer uses to track their ATA Spec 300 boxes which go to AMO/Repair Stations.

| AutoS | ave 💽 🖁 | 9 ~ | ١ | WH3_3_1 ATA300 Container Lo | g_v1.0_20210801 + | | 𝒫 Search | |
|--------|------------|------------------|---------------------------------------|---|-------------------|----------------------------|----------------------------|---------------------|
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| 105 | lipboard 🕞 | Font | 2 | d Alignmen | it 🔽 | Number | | |
| 125 | | B | с | D | F | F | G | н |
| | Box number | Category 1 or 2 | Cost | Current Location | Point of contact | Date shipped | Date due back | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 5 5 | | | | | | | | |
| 7 3 | | | | | | | | |
| 9 | | | | | | | | |
| 1 | | | | | | | | |
| 2 3 | | | | | | | | |
| 4 5 | | | | | | | | |
| 6 | | | | | | | | |





Just a question:

If you're a Repair Station/AMO, does your receiving process account for documenting that a customer sent you a Category 1 container so that the shipping department can then re-use it to ship the part back?









Category II









Category II

All cushioning material shall be permanently attached to the container sides. Additional void fill material such as plastic bubble wrap or foam sheets may be added to restrict movement of an item within its container as long as the material is reusable and does not reduce the cushioning characteristics of the container.







Category II

It is acceptable to have dunnage material which is adjustable and interchangeable. Adjustable materials, while fixed to the containers, are capable of adjustment to receive varying sizes of units. Interchangeable materials may be switched between parts and / or containers. Containers using the "dunnage board" principle fall into this type.







Category III (least prescriptive)

Excerpts from 8-2-1:

Materials shall be sufficiently durable to properly protect the packaged item during normal shipping and handling processes.

Foam sheets, bubble wrap, or other cushioning and void fill materials are acceptable but must be non-dust producing and mold resistant.

All packaging materials, including the outer containers and inner packings, shall be reusable to the greatest extent possible and shall utilize recycled post consumer waste where available and feasible. Parts which are subject to ESD damage can be positively identified by these typical markings which include:"





Are there any ESD parts on some engines?



YES!

For example:

- EEC (Electronic Engine Control_
- FADEC (Full Authority Digital Engine Control)
- EPTU (Engine Transient Pressure Unit)







"Dress for the job you want, not the job you have." Me, arriving to work:





Chapter 6 of the ATA Spec 300 is for ESD





Caps

Chapter 6 of the ATA Spec 300 is for ESD





Make sure to place ESD decals on the outside of the box







Is the Part Hazardous Material / Dangerous Goods?









Is the Part Hazardous Material / Dangerous Goods?



ATA Specification 300

Chapter 5. Packaging of Hazardous Material

5-1. Purpose

The purpose of this specification is to identify the applicable regulatory documents that govern the commercial transport of hazardous materials and substances and to describe materials subject to those regulatory documents. <u>Regulatory and legal requirements may change before the next revision of this specification</u>. Therefore, it is the responsibility of the user of this specification to assure that all current regulatory and legal requirements are met.

The terms Hazardous Materials, Dangerous Goods and Restricted Articles are used interchangeably in this document, and include Hazardous Substances, Hazardous Wastes, Marine Pollutants, and Elevated Temperature Materials.

5-2. Application of Standards

These materials and substances are defined and listed in 49 CFR Parts 171, 172, 173 and as authorized in 49 CFR 171.11 [DOT Title 49], and the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air [ICAO Doc 9284].

5-3. Regulatory Documents

In determining the specifications for packaging designed, constructed, tested, maintained, and filled with Hazardous Materials, Dangerous Goods or Restricted Articles, the following regulatory documents must be consulted. Users should assure that they consult the most recent version of these documents.

 [DOT Title 49] Code of Federal Regulations Title 49, Parts 100 through 199. United States Department of Transportation (DOT) (www.dot.gov). More information is available online.
 [ICAO Doc 9284] Technical Instructions for the Safe Transport of Dangerous Goods by Air, International Civil Aviation Organization (ICAO) (www.icao.org). ICAO catalog Doc. 9284.
 [IATA DGR] Dangerous Goods Regulations, International Air Transport Association (IATA) (www.iata.org). Catalog is available online.
 [IMO IMDG] International Maritime Dangerous Goods Code (for transport of dangerous goods by sea). International Maritime Organization (IMO) (www.imo.org). More information is available online.

5-4. Packaging and Documentation Requirements

Hazardous Materials or Substances, Dangerous Goods and **Restricted Articles** shall be properly classified, described, packaged, marked, labeled, documented and in condition for transport in compliance with applicable regulations and instructions. For packaging used to

Bottom Line



Are packaging 'peanuts' allowed by ATA Spec 300?

NO!

7-2-4 and 8-2-1:

JOE

COOL

"Miscellaneous wadding such as newspaper or rags, and loose fill packing materials such as plastic 'chips' or 'peanuts' shall not be used as dunnage or cushioning material."







Are there any restrictions on foam in place packaging?

Foam-in-Place (FIP) dunnage is not acceptable for use in Category I containers.

Page 20







7-2-9. Skids

Containers designed for gross weights over 90 kg (200 lbs) or gross sizes over 0.028 cubic meters (27 cub. ft.) with minimum bottom area of 0.093 sq. meters (9 sq. ft), shall be equipped with skids or supports allowing at least 7.6 cm (3.00 in.) ground clearance for materials handling equipment. Skid height requirement is waived when it unduly restricts transportability or prevents shipment of the item due to the height of the shipping container.

Skids are to be permanently attached to ensure the skids can withstand severe impact on any side of the skid.



Don't reinvent the wheel! Your best source of ideas on how to package parts is how were the parts shipped to you!







TRENDING: Increasing use of rugged, modular, configurable containers

NEXT: Military/Government Packaging

LAVATOR



Military/Government Packaging, this is the standard:

MIL-STD-2073-1E

w/CHANGE 1 <u>7 January 2011</u> SUPERSEDING MIL-STD-2073-1E 23 May 2008



DEPARTMENT OF DEFENSE

STANDARD PRACTICE FOR MILITARY PACKAGING



| CRA | ED MANA6 a veteran owned firm | EMA |
|--------|----------------------------------|--------|
| MIE | (ATM) | IN SI |
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| CONTINUATION SHEET | REFERENCE NO. OF DOCUMENT BEING CONTINUED: SPE4A6-18-V-488A | PAGE 4 OF 10 PAGES | |
|--|--|----------------------------|---|
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| EXPORT CONTROL: | SECTION B | | |
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| OR BY WRITING TO: | | | |
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| | CONT | INUED ON NEXT PAGE | |



Wait just a minute, PLEASE! Let's take a look at this handy document

DEFENSE LOGISTICS AGENCY Established 1961 The Nation's Combat Logistics Support Agency

DLA Packaging and Marking Guide

Jennifer Smith DLA Packaging Program Manager February 2021

WARFIGHTER ALWAYS





- <u>https://camphill.leidos.com/code_lookup.nsf</u>
- Input packaging codes into designated fields for definitions

| Home Contact | Packaging Code Lookup | | | | | | | Code Lookup Home |
|--|--|-----------------------|-------------------------|------------------------|------------|----------------------|--------------------|------------------|
| MIL-STD-2073-1 Packaging Code Descriptions (located on top row) conform to Revision E, change 3, unless otherwise noted. Please enter the desired packaging code(s) into the corresponding entry box and select the "Get Packaging Data" button below. Packaging Codes are derived from MIL-STD-2073-1 and DoD standards. For Unit/Intermediate Container, it is possible to enter two codes. If two codes are desired, place a comma() or semi-colon () between your entries. | | | | | | | | |
| | Method of Preservation Cleaning & Drying Preservative Materials Wrapping Material Cushioning Material Unit/Intermediate Container Packing Code | | | | | | | |
| | Special Material Hazard Content Mater | al Special Marking | Unit Container Level | Optional Procedures | Shelf-Life | Shelf-Life Action | Type of Storage | |
| Get Packaging Data NOTE: To view the full MIL-STD-2073-1/DoD code description, select the code title in the result list. | | | | | | | | |
| CODE LOOKUP HOME | | | | | | | | |

WARFIGHTER ALWAYS



Place the codes from the solicitation into these fields

PKGING DATA - MIL-STD-2073-1D, 15 DEC 1999 QUP:001 PRES MTHD:41 CLNG/DRY:1 PRESV MAT:00 WRAP MAT:GB CUSH/DUNN MAT:NA CUSH/DUNN THKNESS:A UNIT CONT:EC OPI:M INTRMDTE CONT:ED INTRMDTE CONT QTY:AAA PACK CODE:U MARKING SHALL BE IN ACCORDANCE WITH MIL-STD-129. SPECIAL MARKING CODE:00 -00 No special marking

Packaging Code Lookup

Miscellaneous Codes

MIL-STD-2073-1 Packaging Code Descriptions (located on top row) conform to Revision E, change 3, unless otherwise noted. Please enter the desired packaging code(s) into the corresponding entry box and select the "Get Packaging Data" button below. Packaging Codes are derived from MIL-STD-2073-1 and DoD standards. For Unit/Intermediate Container, it is possible to enter two codes. If two codes are desired, place a comma(,) or semi-colon (;) between your entries.

| Method of | Cleaning & | Preservative | Wrapping | Cushioning | Cushioning | Unit/Intermediate | |
|--------------|------------|--------------|----------|------------|------------|-------------------|--------------|
| Preservation | Drying | Materials | Material | Material | Thickness | Container | Packing Code |
| 41 | 1 | 00 | GB | NA | А | ED | U |





| NOTE: To view the full | | | |
|--------------------------------|----|--|-------------------------------------|
| <u>Method of Preservation:</u> | 41 | 41: Watervaporproof bag, heat sealed. The item, preserved, wrapped and cushioned as required in 5.2.3.6, shall be enclosed in a close fitting heat-sealed bag conforming to one of the following: a. MIL-DTL-117, Type I, Class E, Style 1, 2 or 3 (see notes 2/, 4/). b. MIL-DTL-117, Type I, Class F, Style 1, use intended for ESD sensitive items only (see note 1/). c. MIL-DTL-117, Type II, Class E, Style 1 (see notes 2/, 3/). d. MIL-DTL-117, Type IV, Class E, Style 1 (see notes 2/, 4/). 1/ For electrostatic protection refer to 5.2.4.1. 2/ When specified in the contract or order, a carton or box shall be required to complete the unit container and the primary cushioning shall be placed between the outside of the bag and the inside of the carton or box. 3/ When MIL-DTL-117, Type II, Class E, Style 1 bags are selected, they shall be limited to the restrictions detailed in MIL-PRF-131 for Class 2 material. 4/ When it has been determined to protect items with VCI, they shall be preserved in | Voila, and there you have it! |
| | | accordance with 5.2.4.9. | |
| <u>Cleaning & Drying:</u> | 1 | 1: Any suitable process that is not injurious to the item. | 0 |
| Preservative Material: | 00 | 00: No requirement. | |
| Wrapping Material: | GB | GB: MIL-PRF-121, greaseproof, waterproof barrier. | |
| Cushioning Material: | NA | NA: PPP-C-795, closed cell plastic cushioning; or A-A-3129, open cell plastic cushioning; or PPP-C-1797, polypropylene foam cushioning. | |
| Cushioning Thickness: | Α | A: 1/4 inch thick. | |
| U/I Container: | ED | ED: ASTM-D5118, Type CF, Class weather resistant, corrugated fiberboard box. | |
| Packing: | U | U: Items or packages that require packing for acceptance by the carrier shall be packed in exterior type shipping containers in a manner that will ensure safe transportation at the lowest rate to the point of delivery and shall meet, as a minimum, the requirements of the following rules and regulations, as applicable to the mode(s) of transportation to be utilized: (a) Postal Regulations (b) Department of Transportation Regulations (c) Civil Air Regulations (d) Uniform Freight Classification Rules (e) National Motor Freight Classification Rules (f) American Truckers' Association Rules (g) Other applicable carriers' rules (h) Military Air Regulations for dangerous materials. Dangerous goods shall be prepared for shipment according to applicable Department of Transportation (DOT) regulations and international regulations in effect at time of shipment. Shipments by parcel post must comply with Postal Regulations. | |
| <u>Special Marking:</u> | 00 | 00: No special marking | |

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Roy Resto is an experienced aviation industry professional having served in management positions with several firms, and is currently President of AIM Consulting Solutions. Most recently he was Vice President of Technical Operations for Tracer Corp. and Messier-Bugatti-Tracer, a family of aviation companies. Prior to this position, he was the COO of Quality Management Solutions LP, a consulting firm specializing in aircraft maintenance. In addition, Roy worked with American Airlines in their Maintenance and Engineering center where he retired as a level 5 Manager, and before that, with McDonnell Douglas. He was also a member of the US Air Force in the Reserves/ANG having served 32 years in Electronic Warfare and Avionics. Resto has served on the FAA's Suspected Unapproved Parts Steering Committee and the Aviation Suppliers Association Board of Directors.

Roy has an MBA in Finance from Oklahoma City University, a BS from Oklahoma State University, an AAS in Avionics from the Community College of the Air Force, and is an Aviation High School graduate. Complementing these, he has an FAA A&P license, an FCC Radiotelephone license with a RADAR endorsement, is an FAA DAR (Designated Airworthiness Representative), Instrument Rated Pilot, and speaks fluent Spanish. His website is: www.AimSolutionsConsulting.com

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That's all folks!

