



DLA
DEFENSE LOGISTICS AGENCY
Established 1961



The Nation's Combat Logistics Support Agency



DLA Packaging

DLA Supply Chain Alliance

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April 24, 2024

WARFIGHTER ALWAYS



Impact to DLA Customers

- Delayed Delivery
- Frustrated Freight
- Traceability Issues

Impact to DLA Vendors

- Delayed Payment
- Decreased Competitiveness
- Decreased Profit
- Strain on Resources
- Decrease in Supply Performance Risk System (SPRS) score/color



FY23 Packaging Supply Discrepancy Report Statistical Data

- In FY23, 1 out of every 15 new procurement receipts had a packaging or label defect requiring correction before acceptance.
- Over 50% of FY23 packaging or label defects were from repeat vendor and NIIN combinations within a 12-month period.



Supply Discrepancy Reports (SDR)



Packaging

Inadequate to protect the item
Wrong Method of Preservation
Wrong Packaging Materials/Non-Specification Materials
Use of non-compliant wood packaging materials
Unit of Issue, Quantity Per Unit Package



Preservation

Preservative Material
Caps/Plugs



Marking

Not MIL-STD-129 Compliant
Missing Elements
Missing Special Markings



Unitization

Not unitized/palletized to MIL_STD-147
Stacked too high



Hazardous Shipments

Not prepared for mode of shipment
Incorrect Shippers Declarations



Importance

- Material that is procured, received, stored, and issued must be properly identified and packaged at the time of receipt
- The warfighter must receive the right item, on time, properly packaged



Contractual Requirements

- Section B of the contract contains
 - RA001: Incorporates the TQ master requirements.
 - RP001: DLA Packaging Requirements for Procurement
- The prep for delivery section displays the packaging requirements that pass from the material master and could contain additional requirements such as
 - IP025: Packaging, Marking, and Shipping of Hazardous Materials
 - IP027: Packing and Marking Requirements Federal Stock Class (FSC) 5961 Semiconductors and Hardware Devices and FSC 5962 Electronic Microcircuits
 - IP056: Mercury or Mercury Compounds are Prohibited in Preservation, Packaging, Packing and Marking



- Vendors must review the entire contract/solicitation

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED: SPE4A6-20-P-1001	PAGE 3 OF 6 PAGES
SECTION B		
SUPPLIES/SERVICES: 4931-01-115-5443		
ITEM DESCRIPTION:		
SLING, UNIVERSAL		
RA001: THIS DOCUMENT INCORPORATES TECHNICAL AND/OR QUALITY REQUIREMENTS (IDENTIFIED BY AN 'R' OR AN 'I' NUMBER) SET FORTH IN FULL TEXT IN THE DLA MASTER LIST OF TECHNICAL AND QUALITY REQUIREMENTS FOUND ON THE WEB AT:		
http://www.dla.mil/HQ/Acquisition/Offers/eProcurement.aspx		
FOR SIMPLIFIED ACQUISITIONS, THE REVISION OF THE MASTER IN EFFECT ON THE SOLICITATION ISSUE DATE OR THE AWARD DATE CONTROLS. FOR LARGE ACQUISITIONS, THE REVISION OF THE MASTER IN EFFECT ON THE RFP ISSUE DATE APPLIES UNLESS A SOLICITATION AMENDMENT INCORPORATES A FOLLOW-ON REVISION, IN WHICH CASE THE AMENDMENT DATE CONTROLS.		
RP001: DLA PACKAGING REQUIREMENTS FOR PROCUREMENT		
RQ011: REMOVAL OF GOVERNMENT IDENTIFICATION FROM NON-ACCEPTED SUPPLIES		
MIL-STD-130N(1) DATED 16 NOV 2012. IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY		

Link to DLA Master List of Technical and Quality Requirements

Callout for RP001: DLA Packaging Requirements for Procurement



Contractual Requirements, Prep for Delivery – Military Packaging

PREP FOR DELIVERY:

PKGING DATA - MIL-STD-2073- 1E

QUP:001 PRES MTHD:33 CLNG/DRY:1 PRESV MAT:00

WRAP MAT:00 CUSH/DUNN MAT:00 CUSH/DUNN THKNSS:0

UNIT CONT:BV OPI:M

INTRMDTE CONT:D3 INTRMDTE CONT QTY:AAA

PACK CODE:U

MARKING SHALL BE IN ACCORDANCE WITH MIL-STD-129.

SPECIAL MARKING CODE:00 -00 No special marking

PALLETIZATION SHALL BE IN ACCORDANCE WITH RP001: DLA PACKAGING
REQUIREMENTS FOR PROCUREMENT

Coded packaging data

Marking requirements

Palletization requirements found
in RP001



• Prep for Delivery – ASTM D3951, Standard Practice for Commercial Packaging

PREP FOR DELIVERY:

PKGING DATA-QUP:001

WILL BE PACKAGED IN ACCORDANCE WITH ASTM D3951.

All DLA Master List of Technical and Quality Requirements take precedence over ASTM D3951.

Mark and label all packaging and packing in accordance with MIL-STD-129.

The Unit of Issue (U/I) and Quantity per Unit Pack (QUP) will be as specified in the contract/purchase order.

Quantity per Unit Pack (QUP)-
How many units of issue allowed
in same unit package

Packaging IAW ASTM D3951

Marking requirements



Packaging and Marking Standards, Regulations, Issuances



- Access to commercial standards requires purchase of the standards from the ASTM

– <https://www.astm.org/>

Military Packaging

Commercial Packaging

Use of specification materials

Permits use of non-specification materials

Requires interpretation of preservation/packaging/packing instructions

ASTM D3951 provides standard commercial guidelines

Requires the preservation methods and materials from MIL-STD-2073-1

Application of preservation/packing techniques is at the discretion of the vendor

MIL-STD-129 marking required

MIL-STD-129 marking required

Compliant WPM required

Compliant WPM required

Available on ASSIST

Must be purchased



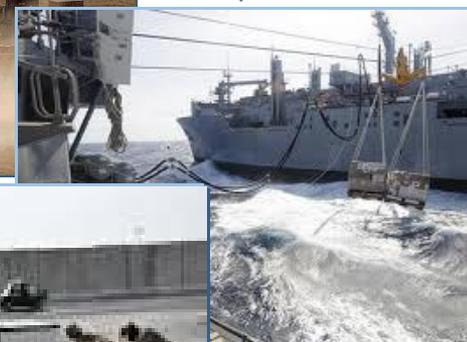
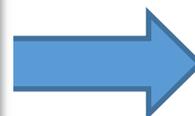
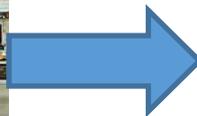
www.shirley.com - D13XV0X



WARFIGHTER ALWAYS



www.alamy.com - D1XW0X



WARFIGHTER ALWAYS



Quantity Per Unit Package (QUP) and Unit of Issue



Quantity Per Unit Package (QUP) and Unit of Issue



Unit of Issue = EA

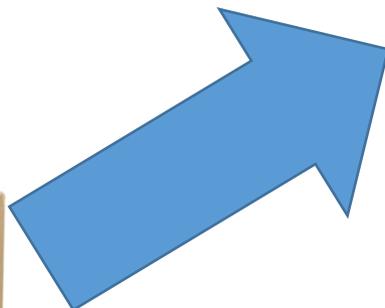
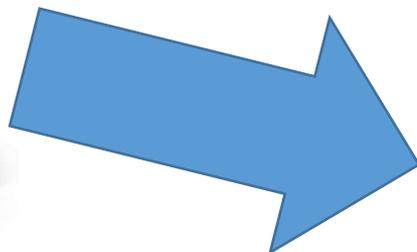
Quantity
Per Unit
Pack = 25



Unit Pack



Quantity Per Unit Package (QUP) and Unit of Issue



Intermediate
Container
Quantity = 2



Contractual Requirements, Long Term Contracts and Hazardous Materials

- Packaging requirements for long term contracts do not print on delivery orders
 - Must refer to basic contracts or any contract modifications (MODs) that have additional packaging language
- Method of Preservation (MOP) will be HM
- IP025 list hazardous material requirements
- When shipping to an aerial port or a Consolidation Containerization Point (CCP), must be prepared for military air shipment



MIL STD 129R Markings

- NSN - (National Stock Number)
 - CAGE Code (as referenced in contract)
 - PN - (Part #)
 - Nomenclature (Not always required on exterior containers)
 - Quantity and unit of issue
 - PIID (or Contract and call for legacy contracts)
 - Military Method and date of unit preservation
 - Gross Weight (Exterior containers)
 - Shelf Life Information (if applicable)
 - Serial Numbers (if applicable)
-
- NSN (& Serial Number) for unit and intermediate packs
 - NSN, Contract number, CAGE, CLIN, Shipment Number (&



MIL STD 129R Markings, Cont.

- Address markings
 - Uses Military Shipping Label (MSL).
 - Transportation Control Number (TCN), DODAAC of Ultimate Consignee, and Piece Number must be bar coded when shipment is destined into the Defense Transportation System
 - 2D Bar Coding of MSL Information,
 - TCMD data and line item supply data
- Special markings
 - Hazardous Material
 - Set Marking
 - Project Code
 - Warranty, Manufactured, Cured, or Assembled Date
 - Expiration, Inspection, or Pack Date
 - Arrows, Fragile, Special Handling, etc.
 - UID and RFID



MIL STD 129R Markings, PIID

- Procurement instrument identifier (PIID) (e.g., contract number or purchase order number)
 - For current DFARS compliant DOD contracts, cite the 13-character PIID. When applicable, use the 13-character PIID call order number (identified by F or M in the 9th position) alone (since the call order PIID is treated as an independent contractual document)
 - For legacy contracts, cite the PIIN (contract number or purchase order number) including four-digit delivery order or call number if applicable, and lot number (see 5.10.13) shall be shown. Additional information may be required by the contract or purchase order



Special Markings – Shelf-Life

- Required shelf-life markings
 - TYPE I (non-extendable):
 - MFD DATE 10/01
 - EXP DATE 10/06
 - TYPE II (extendable):
 - ASSEMBLED DATE 10/01
 - INSP/TEST DATE 10/04
 - RUBBER or ELASTOMER (TYPE I OR II):
 - CURED DATE 4Q01
 - INSP/TEST DATE 4Q05



Special Markings – Electrostatic Discharge (ESD) Susceptible Device



Unit Pack Symbol/Label

Use of previous label types is allowed until existing supplies are depleted, or until March 2025



Project Code

9GF

Method 50

METHOD
50
FORMERLY METHOD II
PACKAGE

PACKAGED WITH
DESICCANT
DO NOT OPEN
UNTIL READY FOR USE
OR INSPECTION

Special Handling



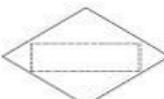


Refer to 49 CFR, Part 172:
 Marking - Subpart D
 Labeling - Subpart E
 Placarding - Subpart F



NOTE: This document is for general guidance only and should not be used to determine compliance with 49 CFR, Parts 100-185.

HAZARDOUS MATERIALS MARKINGS

<p>Package Orientation (Red or Black)</p>  <p>§172.312(a)</p>	<p>or</p> 	<p>Keep Away from Heat</p>  <p>§172.317</p>	<p>OVERPACK</p>  <p>§173.25(a)(4)</p>	<p>Fumigant Marking (Red or Black)</p>  <p>§172.302(g) and §173.9</p>	<p>INHALATION HAZARD</p>  <p>§172.313(a)</p>	<p>HOT</p>  <p>§172.325</p>	<p>Biological Substances, Category B</p>  <p>§172.332(a)</p>	<p>UN3373</p>  <p>§173.199 (a)(5)</p>
<p>Limited Quantity*</p> <p>All other Modes</p>  <p>§172.315</p>	<p>NEW</p> <p>Air Only</p>  <p>§172.315</p>	<p>ORM-D, Transition December 31, 2020</p> <p>ORM-D</p>  <p>§172.316</p>	<p>UN1755</p> 	<p>Excepted Quantity</p>  <p>§173.4a(a)</p>	<p>Marking of IBCs</p>  <p>§178.703(b)(7)(i)</p>	<p>Marine Pollutant</p>  <p>§172.322</p>		



Unit and Intermediate Marking Example-Linear Bar Code

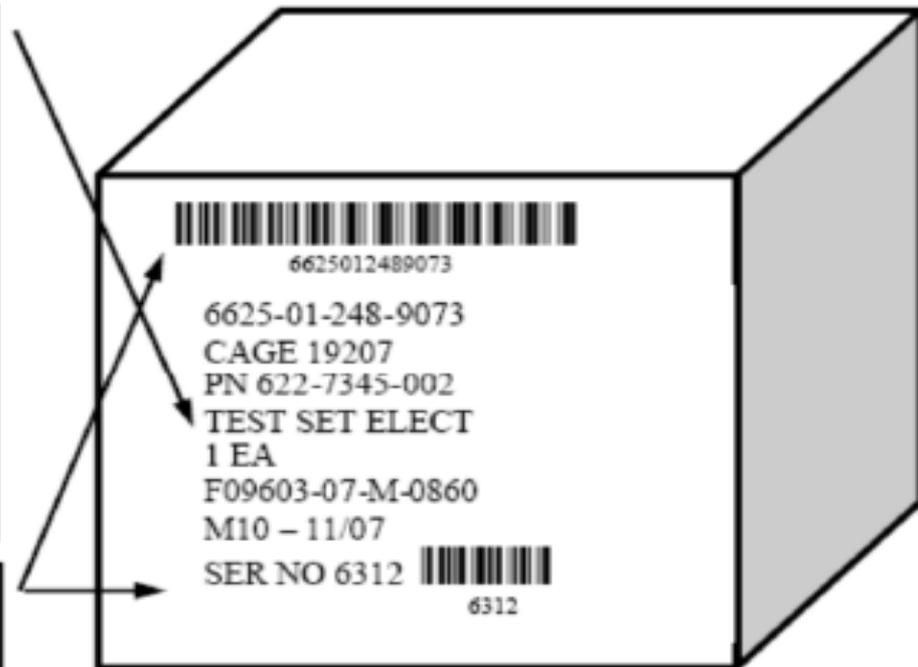
Unit & Intermediate Containers with linear (Code 39) bar codes

1 - IDENTIFICATION MARKINGS

- NATIONAL STOCK NUMBER
- CAGE CODE
- PART NUMBER
- ITEM DESCRIPTION
- QUANTITY AND UNIT OF ISSUE
- CONTRACT NUMBER & LOT NUMBER
- MILITARY METHOD & DATE OF UNIT PRESERVATION
- SERIAL NUMBER (WHEN ASSIGNED)

#2 - BAR CODES

- NATIONAL STOCK NUMBER (NSN)
- SERIAL NUMBER (WHEN ASSIGNED)



*For units without UII



Unit and Intermediate Marking Example- 2D (PDF417) Symbol

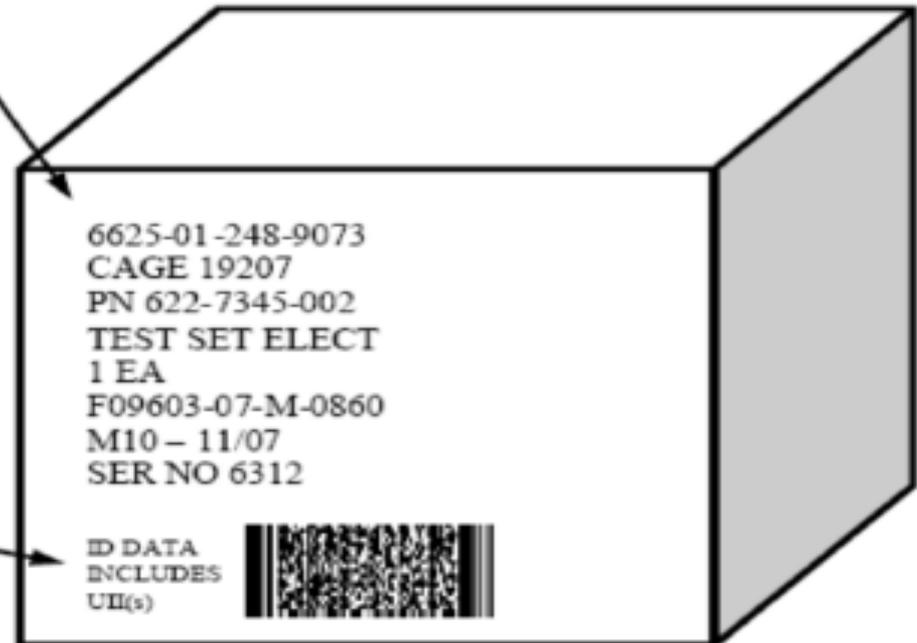
Unit & Intermediate Containers with 2D (PDF417) symbol*

1 - IDENTIFICATION MARKINGS

- NATIONAL STOCK NUMBER
- CAGE CODE
- PART NUMBER
- ITEM DESCRIPTION
- QUANTITY AND UNIT OF ISSUE
- CONTRACT NUMBER & LOT NUMBER
- MILITARY METHOD & DATE OF UNIT PRESERVATION
- SERIAL NUMBER

#2 - 2D (PDF417) Symbol Data with (Data Identifiers)

- NATIONAL STOCK NUMBER (N)
- SERIAL NUMBER (S)
- UNIQUE ITEM IDENTIFIER (2SS)



*For units with UII



Exterior Container Markings

Order of Markings

*****Check blocks to confirm order*****

- a. NSN/NATO stock number. If no NSN is assigned, then this line may be omitted
- b. CAGE code
- c. Part Number. The letters "PN" or "P/N" shall be used to identify this information. If the item has no PN assigned to it or if no PN is cited, then nothing is shown
- d. Quantity and UI. A non-definitive UI shall be accompanied by a quantitative expression such as "1 RO (100 FT)"
- e. Contract number or purchase order number (Procurement Instrument Identification Number (PIIN)) including four-digit delivery order or call number, modification for change order number. The in-the-clear contract number will include the dashes as shown in the contract, i.e., DAAB07-96-C-1234
- f. Military preservation method and date of unit preservation (e.g., "M41-4/02" - method 41, in April 2002). To reflect commercial packaging (ASTM-D3951), DLA uses "MCP". If a preservation date doesn't apply, the pack date will be shown
- g. Gross weight. The capital letters "WT" shall precede the gross weight. The gross weight will be expressed in pounds rounded up to the nearest pound
- h. Shelf-life markings, (if applicable – see MIL-STD-129, paragraph 5.10.1)
- i. Serial number(s). When an item is assigned a serial number, that number shall be applied and preceded by the abbreviation "SER NO"
- j. Bar code markings – NSN & CAGE, if required 2D (PDF 417) & serial no. (see MIL-STD-129, paragraph 5.4.1.2 & Figures 1, 15, 22, 25).

MIL-STD-129R Checklist for Identification Marking on Exterior Containers and Unpacked items

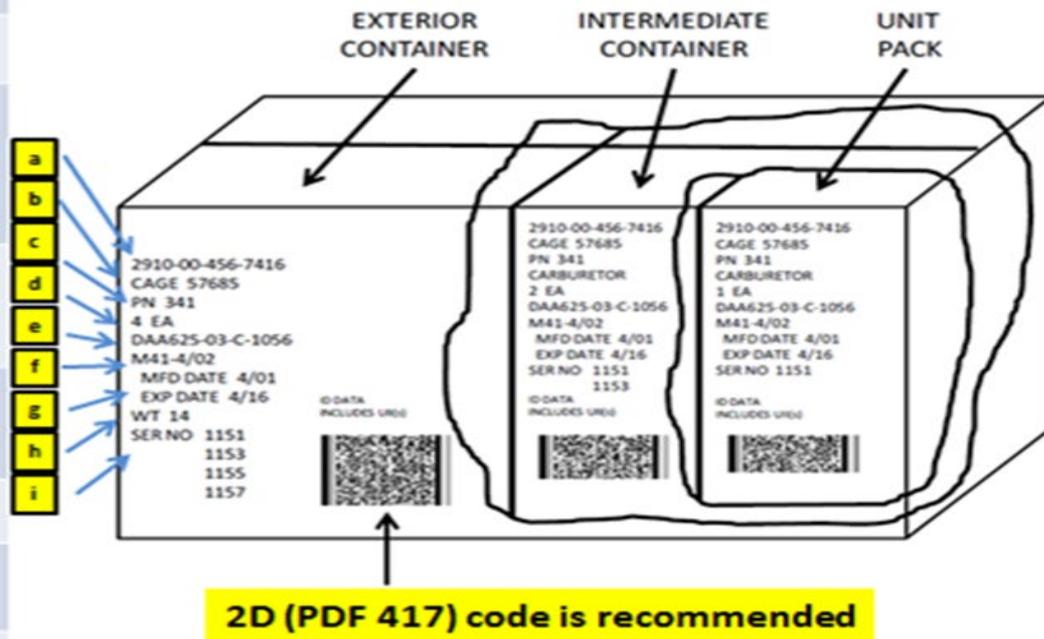


FIGURE 2: Example of Unit Pack, Intermediate and Exterior Container ID markings (No linear (code 39) bar code markings shown since 2D (PDF 417) bar code includes the identification data).



Military Shipping Label (MSL)

The recommended MSL size is 4 inches by 6 inches.

TCN SW81238350D001XXX			
From SW8123 In-the-clear Address 3 Lines Max, 35 Characters Per Line XXXXXXXXXX1XXXXXXXXXX2XXXXXXXXXX3XXXXX		TAC / Type Service / Postage SZZZ Frt LTL	
Piece 1 Of 1 	Weight (lb.) 7760	Date Shipped 1090	RDD 999
	Cube (ft.) 385	Project 9BU	Priority 1
Ship To / POE DOV In-the-clear Address 5 Lines Max, 35 Characters Per Line Abcdefg Hijklmno Pqrstuv Wxyz Abcdefg Hijklmno Pqrstuv Wxyz XXXXXXXXXX1XXXXXXXXXX2XXXXXXXXXX3XXXXX			
POD RMS	MSL, Supply, & TCMD Data 		
FMS Case CKM			
W55XGJ Ultimate Consignee / Mark For Consignee Ultimate / Mark For Consignee Address 5 Lines Max, 35 Characters Per Line Abcdefg Hijklmno Pqrstuv Wxyz Abcdefg Hijklmno Pqrstuv Wxyz XXXXXXXXXX1XXXXXXXXXX2XXXXXXXXXX3XXXXX			

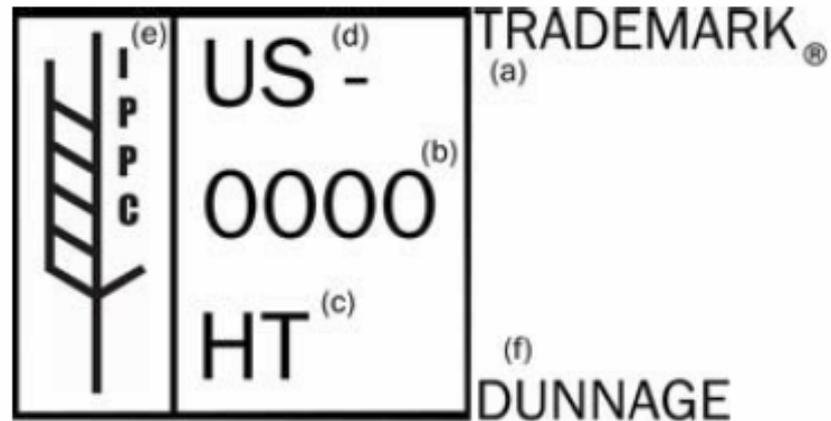
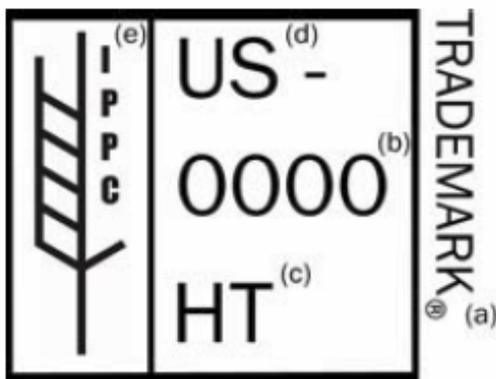
Required bar coding:

- Code 39 (Linear)
 - TCN
 - Piece number
 - Ultimate consignee
- Department of Defense Activity Address Code (DODAAC) PDF417 (2D)
 - Shipment
 - Line item
 - TCMD data
- Transportation Office:
 - 800-456-5507

Ref: MIL-STD-129, Paragraph 5.2.2 (Pages 28-36)



- WPM is defined as wood pallets, skids, load boards, pallet collars, wooden boxes, reels, dunnage, crates, frames, and cleats
- All WPM is required to be heat treated, including pallets, and marked accordingly with the heat-treated compliant mark





Contract Questions?

- The primary contact for all contractors/vendors is the contracting officer. Vendors should submit a Post Award Request (PAR) for any question (packaging related or other) using the PAR link on DIBBS
 - <https://www.dibbs.bsm.dla.mil//>



Examples of Discrepant Materiel

SCC "L" New Procurement

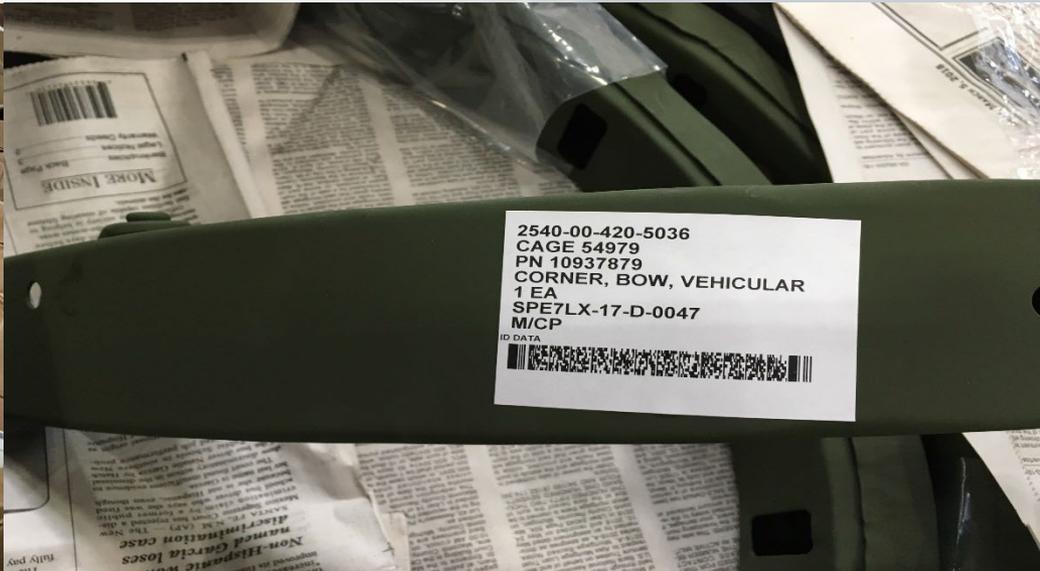


SCC "K" Returns from the Field Redistribution Orders



SCC "J" Stock Screening







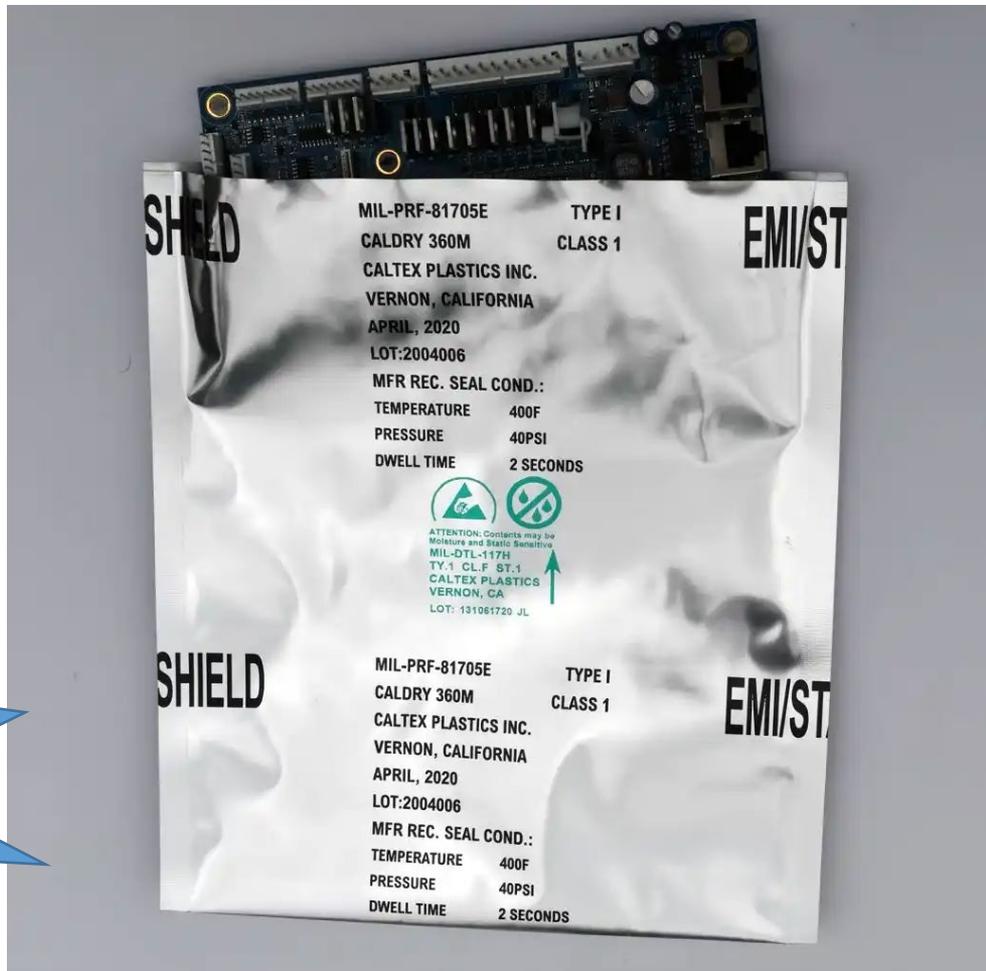
Most Vendor Shipments Not Compliant with MOP GX:

- Two approved types
 - Type I-Watervaporproof, electrostatic protective, electrostatic and electromagnetic shielding
 - Class 1
 - Class 2
 - Type III-Transparent, waterproof, electrostatic protective, electrostatic shielding
 - Class 1
 - Class 2





MIL-PRF-81705E TYPE I
 CALDRY 360M CLASS 1
 CALTEX PLASTICS INC.
 VERNON, CALIFORNIA
 APRIL, 2020
 LOT:2004006
 MFR REC. SEAL COND.:
 TEMPERATURE 400F
 PRESSURE 40PSI
 DWELL TIME



**Must be on the
 Qualified Product
 Listing**



MIL-PRF-37038 TYPE B CLASS 2
SOL. DESIG. INC. PARTS INC. FROM
DECEMBER 2014 LOT 101202
SEAL COND. 30A.F. 62 PSL 2 SEC.

**Must be on the
Qualified Product
Listing**





Resources

- DLA Packaging:
<https://www.dla.mil/HQ/LogisticsOperations/Packaging/>



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