

PPP-P-1010  
 December 22, 1967  
 SUPERSEDING  
 (See 6.3)

## FEDERAL SPECIFICATION

### PACKAGING, PACKING, AND MARKING: BENCHES, BINS, CABINETS, AND WORKTABLES; GENERAL SPECIFICATION FOR

This specification was approved by the Commissioner,  
 Federal Supply Service, General Services Administration,  
 for the use of all Federal agencies.

#### 1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers the general requirements for methods of preservation, packaging, packing, and marking of benches, bins, cabinets, and worktables for levels of protection for storage, shipment, or handling.

#### 1.2 Classification.

1.2.1 Groups. Benches, bins, cabinets, and worktables shall be divided into the following groups, as specified (see 6.2):

##### Benches:

- Group I - Benches, work, steel, with steel tops.
- II - Benches, work, steel, with wood tops.
- III - Benches, work, wood, with wood tops (jewelers).

##### Bins:

- Group I - Solid circular base (maintenance).
- II - Two tube fittings (shipboard).

##### Cabinets:

- Group I - Cabinets, all wood (disassembled type).
- II - Cabinets, all steel.
- III - Cabinets, steel with locks (disassembled or assembled).
- IV - Cabinets, steel, with wood tops.

##### Worktables:

- Group I - Tables, wood top, folding steel legs.
- II - Tables, steel top, folding steel legs.
- III - Tables, steel, stationary.
- IV - Tables, wood, stationary.

#### 2. APPLICABLE DOCUMENTS

2.1 Specifications and standards. The following specifications and standards, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

##### Federal Specifications:

- UU-T-81 - Tags, Shipping and Stock.
- UU-T-106 - Tape, Pressure-Sensitive Adhesive, Masking, Paper.
- PPP-B-20 - Bags, Cotton, Mailing.
- PPP-B-601 - Boxes, Wood, Cleated-Plywood.
- PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner.
- PPP-B-636 - Box, Fiberboard.
- PPP-B-640 - Boxes, Fiberboard, Corrugated, Triple-Wall.
- PPP-B-1163 - Box, Corrugated Fiberboard, High Compression Strength, Water-Resistant, Wax-Resin Impregnated.
- PPP-C-650 - Crates, Wood, Open and Covered.
- PPP-C-843 - Cushioning Material, Cellulosic.
- PPP-P-291 - Paperboard, Wrapping and Cushioning.

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Federal Standard:

Fed. Std. No. 123 - Marking for Domestic Shipment (Civilian Agencies).

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

(Single copies of this specification and other product specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston, New York, Washington, D.C., Atlanta, Chicago, Kansas City, Mo., Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, Wash.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Specifications:

MIL-P-116 - Preservation, Methods of.  
 MIL-B-3106 - Board, Composition, Water Resistant.  
 MIL-C-7769 - Cushioning Material, Bound Fiber.  
 MIL-B-43291 - Box, Fiberboard, Corrugated, Double-Wall, Weather Resistant.

Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.  
 MIL-STD-129 - Marking for Shipment and Storage.  
 MIL-STD-1186 - Cushioning, Anchoring, Bracing, Blocking, and Waterproofing, With Appropriate Test Methods.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

Uniform Freight Classification Committee:

Uniform Freight Classification Rules.

(Application for copies should be addressed to the Uniform Classification Committee, 202 Union Station, 516 West Jackson Blvd., Chicago, Ill. 60606.)

American Trucking Association:

National Motor Freight Classification Rules.

(Application for copies should be addressed to the American Trucking Association, 1616 P St., N.W., Washington, D.C. 20036.)

## 3. REQUIREMENTS

3.1 Methods. Items shall be preserved, packaged, and packed in accordance with the methods as described herein. Cleaning, drying, application of preservatives, and methods of preservation shall be in accordance with MIL-P-116.

3.2 Materials. Materials used in preservation, packaging, and packing shall be as specified herein, and the applicable specification. Materials not specifically designated shall be of commercial quality suitable for the purpose intended, and subject to approval by the procuring activity. Materials shall be new and free of defects and imperfections that may affect the serviceability of the completed packaged or packed product.

3.3 Preproduction sample. When specified, prior to quantity production, a preproduction sample, packaged and packed as for shipment, shall be subjected to the examination and tests of section 4 and shall be approved by the Government (see 6.2).

### 3.4 Disassembly and matchmarking.

3.4.1 Disassembly. Disassembly shall be limited to the extent necessary to accomplish reduction in cube or for the protection of parts vulnerable to damage. Items shall be disassembled to the extent necessary to insure proper cleaning and drying, and application of preservatives. No part of an item shall be removed unless it can readily be assembled without special skills or tools.

3.4.2 Matchmarking. Removed parts and assemblies shall be matchmarked with mating parts to aid reassembly. Matchmarking information shall be printed on tags conforming to UU-T-81 (type B, class 2), and secured to mating parts and assemblies. Fastening devices removed through disassembly such as nuts, bolts, washers, etc., shall be packaged as specified herein.

3.5 Processing conditions. When available, cleaning, drying, preservation, and packaging shall be accomplished within buildings having facilities to prevent the accumulation of dust and moisture on the equipment being processed. Equipment brought into processing areas from the outside shall be allowed sufficient time to read ambient temperatures before processing.

3.6 Preservative. Preservatives specified herein, identified by "P" numbers, shall conform to the applicable specifications listed in MIL-P-116.

3.7 Cushioning and cushioning material. The items shall be cushioned as required to prevent damage to items as determined by the criteria of MIL-P-116, and to prevent puncture or rupture of the exterior container. Excessive use of cushioning within the unit package shall be avoided since an unnecessary increase in tare weight and cube will otherwise result. The performance requirements of MIL-P-116 shall govern the amount of cushioning material used. Excelsior, shredded newsprint, and similar materials which have not been chemically refined for noncorrosiveness are not acceptable for interior packaging. Cushioning material used within the unit package shall conform to PPP-C-843, PPP-P-291, MIL-B-3106, and MIL-C-7769 except that additional types of cushioning materials may be used within the unit package provided they meet the neutrality requirements of packaging and cushioning material specified in MIL-P-116.

3.8 Preservation and packaging. Preservation and packaging shall be level A or C, as specified (see 6.2).

### 3.8.1 Level A.

3.8.1.1 General packaging requirements. Unless otherwise specified (see 6.2), benches, bins, cabinets, and worktables shall be cleaned, dried, preserved, and packaged as specified herein. All ferrous metal hardware and accessories such as nuts, bolts, pins, washers, etc., shall be preserved with an application of type P-19 preservative, packaged in accordance with method IC-1 of MIL-P-116, and secured to basic unit. Nonferrous metal hardware shall be packaged in a cloth drawstring bag conforming to PPP-B-20, and secured to basic unit. Technical manuals, keys, and instructions for assembly, as applicable, shall be packaged in accordance with method IC-1 of MIL-P-116. Drawers of benches, bins, and tables shall be secured in place with commercial type drawer clips or latches.

### 3.8.1.2 Benches.

3.8.1.2.1 Groups I and II benches. All unprimed or unpainted surfaces subject to corrosion, including those exposed by disassembly, shall be coated with type P-19 preservative. Each bench (groups I and II) shall be individually packaged in accordance with method I of MIL-P-116. Painted benches shall be packaged in accordance with method III and marked as such. Unless otherwise specified (see 6.2), the benches shall be disassembled for shipment (see 3.4.1). Each bench top (groups I and II) shall be covered with paperboard cushioning material conforming to PPP-P-291, type III, style 1 and secured with tape conforming to UU-T-106, type optional.

3.8.1.2.2 Group III benches. Benches shall be individually packaged in accordance with method III of MIL-P-116. All finished surfaces shall be covered with machine-glazed kraft paper or minimum 0.002-inch polyethylene sheeting and secured to the bench with tape conforming to UU-T-106, type optional. The bench shall be covered with cushioning material conforming to PPP-P-291, type III, style 1 and secured with tape conforming to UU-T-106, type optional.

### 3.8.1.3 Bins.

3.8.1.3.1 Groups I and II bins. All unprimed or unpainted surfaces subject to corrosion, including those exposed by disassembly, shall be coated with type P-19 preservative. Each bin (groups I and II)

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shall be individually packaged in accordance with method I of MIL-P-116. Painted bins shall be packaged in accordance with method III and marked as such. Steel ball bearings shall be preserved with type P-11 preservative. Cushioning material (see 3.7) shall be applied where required to prevent damage to item and container.

#### 3.8.1.4 Cabinets.

3.8.1.4.1 Group I cabinets. Group I cabinets shall be individually packaged in accordance with method III of MIL-P-116. The cabinets shall be packaged in a collapsible position with the folded base section on top. The shelves, top panel, etc., shall be positioned so as to minimize the size of unit package. The cabinet shall be covered with paperboard cushioning material, as specified in 3.7, to protect the finish of the item.

3.8.1.4.2 Groups II and IV cabinets. All unprimed or unpainted surfaces subject to corrosion, including those exposed by disassembly, shall be coated with type P-19 preservative. The latches and other operational surfaces of cabinet drawers shall be preserved by the application of type P-7 preservative. Each cabinet (groups II and IV) shall be individually packaged in accordance with method I of MIL-P-116. Painted cabinets shall be packaged in accordance with method III and marked as such. Groups II and IV cabinets shall be furnished assembled or disassembled as specified (see 6.2). The top and face of each cabinet (groups II and IV), shall be covered with paperboard cushioning material conforming to PPP-P-291, type III, style 1, and fastened securely with tape conforming to UU-T-106, type optional. Cushioning material adequate to prevent scratching or marring of cabinet finish shall be provided (see 3.7).

3.8.1.4.3 Group III cabinets. Immediately after cleaning and drying, all latches and other operational surfaces shall be coated with type P-7 preservative. All unprimed or unpainted surfaces subject to corrosion, including those exposed by disassembly, shall be coated with type P-19 preservative. The cabinets shall be packaged in either assembled or disassembled condition, as specified (see 6.2). Group III cabinets shall be individually packaged in accordance with method I of MIL-P-116. When the cabinet is to be packaged in disassembled condition, the component parts shall be wrapped or slip sheeted with non-abrasive material (see 3.7) and fastened securely with tape conforming to UU-T-106, type optional. When the cabinet is to be packaged in assembled condition, ready for use, the shelves, coat- rods, hooks, etc., shall be secured in place by suitably designed interior forms, retaining clips, or bolts to prevent movement during handling, storage, and shipment. The cabinet shall be covered with adequate cushioning material, as specified in 3.7 to prevent marring or scratching of cabinet finish.

#### 3.8.1.5 Tables.

3.8.1.5.1 Groups I and II tables. All unprimed or unpainted surfaces, subject to corrosion, shall be coated with type P-19 preservative. Each table (groups I and II) shall be individually packaged in accordance with method I of MIL-P-116. Painted tables shall be packaged in accordance with method III and marked as such. Group I tables shall have the legs folded and locked in closed position. Group II tables shall be disassembled to the extent of removal of both stringers, allowing the legs to be folded under the table. The table top and both stringers (group II) and the wood top (group I) shall be covered with paperboard cushioning material conforming to PPP-P-291, type III, style 1. The paperboard cushioning material shall be secured with tape conforming to UU-T-106, type optional.

3.8.1.5.2 Group III tables. All unprimed or unpainted surfaces subject to corrosion, including those exposed by disassembly, shall be coated with type P-19 preservative. Each table shall be individually packaged in accordance with method I of MIL-P-116. Painted tables shall be packaged in accordance with method III and marked as such. Unless otherwise specified (see 6.2), each table shall be disassembled (see 3.4). Connecting hardware such as legs, shelves, stringers, back and end stops shall be covered with paperboard cushioning material conforming to PPP-P-291, type III, style 1. The cushioning material shall be secured with tape conforming to UU-T-106, type optional.

3.8.1.5.3 Group IV tables. Group IV tables shall be packaged in accordance with method III of MIL-P-116. Each table shall be disassembled to the extent of removal of leg assemblies, shelves, stringers, and drawers. The table shall be wrapped in paperboard cushioning material together with the disassembled parts, conforming to PPP-P-291, type III, style 1. The cushioning material shall be secured with tape conforming to UU-T-106, type optional. The disassembled parts shall be positioned in the underside of table and braced to restrict movement within.

3.8.2 Level C. Benches, bins, cabinets, and worktables shall be preserved and packaged in a manner which will afford adequate protection against corrosion, deterioration, and physical damage during shipment from the supply source to the first receiving activity. The supplier's commercial practice will be accepted when it fulfills the above requirements.

3.9 Packing. Packing shall be level A, B, or C, as specified (see 6.2).

3.9.1 Level A. Unless otherwise specified (see 6.2), benches, bins, cabinets, and worktables shall be packed individually in shipping containers conforming to PPP-B-601, overseas type; PPP-B-621, class 2; PPP-C-650, type and style optional; except groups I and II bins, groups I and III cabinets, and groups I and II tables shall not be packed in open crates. Items packed in open crates shall be shrouded in accordance with MIL-STD-1186. Arrangement of contents, blocking, bracing, and cushioning shall be in accordance with the requirements of MIL-STD-1186. The containers shall be closed and strapped in accordance with the applicable container specification and the appendix thereto.

3.9.2 Level B. Packing of benches, bins, cabinets, and worktables, for level B shall be the same as for level A as specified in 3.9.1, except that containers conforming to the requirements of PPP-B-636, V3c or V3s; PPP-B-640, class 2; PPP-P-1163, type DW; or MIL-B-43291, type CF, may be utilized.

3.9.3 Level C. Packing of subject items shall afford adequate protection against damage, during shipment, from the supply source to the first receiving activity. Containers and packing shall comply with Uniform Freight Classification Rules or National Motor Freight Classification Rules.

### 3.10 Marking.

3.10.1 Civil agencies. In addition to any special marking required by the contract or order (see 6.2), interior packages and shipping containers shall be marked in accordance with Fed. Std. No. 123.

3.10.2 Military agencies. In addition to any special marking required by the contract or order (see 6.2), interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

## 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 Classification of inspection. Inspection shall be classified as follows:

- (a) Preproduction inspection.
- (b) Quality conformance inspection.

4.2.1 Preproduction inspection. When a preproduction sample is required by the contract or purchase order (see 3.2.1), the supplier shall subject the preproduction pack to applicable examinations and tests specified in MIL-P-116 to determine conformance with the requirements of the specification. Failure of the preproduction sample to pass any of the tests shall be cause for rejection.

4.2.2 Quality conformance inspection. Quality conformance inspection shall be applied in all cases for acceptance under the contract or purchase order. Quality conformance inspection shall consist of the applicable examinations and tests specified in MIL-P-116, with sampling to be conducted in accordance with MIL-STD-105, at the inspection level and acceptable quality level (AQL) specified in the contract or purchase order.

4.3 Rough handling test. When specified (see 6.2), the completed packages, packed as for shipment, shall be subjected to rough handling tests specified in MIL-P-116.

## 5. PREPARATION FOR DELIVERY

5.1 This section is not applicable to this specification.

## 6. NOTES

6.1 Intended use. This specification is intended to be used for reference in section 5 of commodity specifications or direct reference in contracts or orders. The cleaning, drying, preservation, packaging, packing, and marking requirements specified herein are intended to insure proper and safe storage and transportation of benches, bins, cabinets, and worktables for direct shipment to Government activities or shipments to be processed at a military activity or agency.

6.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents:

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- (a) Title, number, and date of this specification.
- (b) Benches, bins, cabinets, and worktables, respectively (see 1.2.1).
- (c) Preproduction sample, when required (see 3.3).
- (d) Selection of applicable level of preservation and packaging (see 3.8).
- (e) Special cleaning process and drying procedures, if required (see 3.8.1.1).
- (f) If disassembly not required (see 3.8.1.2.1 and 3.8.1.5.2).
- (g) If cabinets are to be assembled or disassembled (see 3.8.1.4.2 and 3.8.1.4.3).
- (h) Selection of applicable level of packing (see 3.9).
- (i) Packed quantities and shipping containers, if different (see 3.9.1).
- (j) Additional marking, if required (see 3.10).
- (k) Quality conformance inspection level and acceptable quality level (AQL) (see 4.2.2).
- (l) Rough handling test, if required (see 4.3).

6.3 Supersession data. This specification supersedes MIL-T-4064a in its entirety and also includes the requirements of section 5 of:

AA-C-31  
 AA-C-33  
 GGG-B-351  
 MIL-C-1565  
 MIL-T-13795  
 MIL-T-13906  
 MIL-T-15262  
 MIL-C-40009  
 MIL-T-45549

**MILITARY CUSTODIANS:**

Army - WC  
 Navy - YD  
 Air Force - 84

Review activities:

Army - SM  
 Navy - YD  
 Air Force - 82

User activity:

Navy - SH

Preparing activity:

Army - WC

**CIVIL AGENCY INTEREST:**

GSA

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