

MIL-P-6074B
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SUPERSEDING
 MIL-P-6074A
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MILITARY SPECIFICATION

PRESERVATION, PACKAGING AND PACKING OF PROPELLERS, PROPELLER SPARES, AND PROPELLER ACCESSORIES

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

1. SCOPE

1.1 Scope. This specification establishes the packaging and storage requirements for all items identified as belonging to Federal Supply Classification 1610 and the requirements for propeller and propeller blade shipping containers (see 6.1).

1.2 When required, this specification also covers the preparation and submittal of packaging data by the contractor.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards and handbooks. The following specifications, standards and handbooks form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

Federal

C-F-206	Felt Sheet. Cloth, Felt, Wool, Pressed
NN-P-530	Plywood, Flat Panel
QQ-A-1876	Aluminum Foil

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Systems Engineering and Standardization Department (Code 93), Naval Air Engineering Center, Lakehurst, NJ 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

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FSC PACK

MIL-P-6074B

SPECIFICATIONS (Continued)

Federal (Continued)

RR-W-365	Wire Fabric (Insect Screening)
TT-W-550	Wood Preservative, Chromated Copper Arsenate Mixture
TT-W-571	Wood Preservation, Treating Practices
PPP-B-601	Boxes, Wood, Cleated Plywood
PPP-B-621	Box, Wood, Nailed and Lock-Corner
PPP-B-640	Box, Fiberboard, Corrugated, Triple-Wall
PPP-T-60	Tape, Packaging, Waterproof

Military

MIL-P-116	Preservation, Methods of
MIL-B-121	Barrier Material, Greaseproofed, Waterproofed, Flexible
MIL-B-131	Barrier Materials, Watervaporproof, Greaseproof, Flexible, Heat-Sealable
MIL-C-9897	Crate, Slotted Angle, Steel or Aluminum for Lightweight Airframe Components and Bulky Items (For Maximum Loads of 3000 Pounds)
MIL-L-19140	Lumber and Plywood, Fire-Retardant Treated
MIL-A-25175	Air Transport, Nontactical, Packaging for
MIL-B-26195	Box, Wood-Cleated Skidded, Load-Bearing Base

STANDARDS

Military

MIL-STD-129	Marking for Shipment and Storage
MIL-STD-794	Part and Equipment, Procedures for Packaging and Packing of

(Copies of specifications, standards, drawings and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

MIL-P-6074B

2.2 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Detail requirements. The detail requirements for the preservation, packaging and packing, container markings and quality assurance provisions for Federal Supply Classification PACK items shall be in accordance with this specification as specified in the contract or purchase order.

3.1.1 First article inspection. When first article inspection as specified in Section 4 is required, the first article may comprise a preproduction pack or initial production pack.

3.2 Materials. Material suitable for the purpose intended shall conform to Government specifications or standards when definite material is not specified. Materials conforming to commercial, or the contractor's specifications or standards may be used provided they are approved by the Government and provisions for adequate testing are provided.

3.2.1 Block, bracing, cushioning, dunnage, preservatives and wraps. The materials and procedures shall be in accordance with MIL-P-116 or MIL-STD-794, as applicable. Specially designed blocking, bracing or cushioning shall be in accordance with approved drawings applicable thereto.

3.2.2 Containers. Containers shall be in accordance with MIL-P-116, MIL-STD-794, or Section 3.2.3, as applicable, and shall meet the requirements for the method of preservation and packaging, intermediate packaging and level of packing specified. Specially designed containers or modified specification containers shall be in accordance with approved drawings applicable thereto. The types of loads requirement for the container specified shall be that of MIL-STD-794.

3.2.2.1 Closure and strapping. Container closure and strapping for specified preservation, packaging and packing shall conform to the requirements of the applicable container specifications, drawing or appendices thereto. When not covered by the applicable specification or drawing, closure and strapping shall be at the option of the contractor and shall be suitable for the specified method of preservation and packaging, and level of packing.

3.2.2.2 Forklift handling provisions. Exterior containers packed for shipment with a gross weight exceeding 200 pounds (91 Kg) shall be provided forklift handling provisions. Skids, rubbing strips or both shall be provided, constructed of wood in accordance with the applicable container specification or drawing, except that the thickness of the rubbing strips and transverse skids shall be no less than the combined nominal thickness of a piece of 2 inch (51 mm) and a piece of 1 inch (25 mm) lumber. The ends of the skids shall not be beveled.

MIL-P-6074B

3.2.2.2.1 Containers 7 feet (2.1 m) or more in length shall be provided with longitudinal rubbing strips, or skids and rubbing strips, to permit four-way entry of lifting devices. They shall be adequately secured to the bottom of the container, positioned as specified in MIL-B-26195, except that the distance between, across the width of the bottom, shall not exceed 32 inches (813 mm).

3.2.2.2.2 Containers less than 7 feet (2.1 m) in length shall be provided with 2 traverse skids adequately secured across the bottom of the container 2 inches (25 mm) from the ends. An additional skid shall be added at the center of balance when the distance between the edge skids exceeds 32 inches (813 mm).

3.2.2.2.3 The base of containers exceeding 40 inches (1016 mm) in width shall be provided with adequate forklift handling areas extending 40 inches (1016 mm) from the sides or ends as applicable. For the purpose of this requirement, when adequate, properly positioned interior or exterior supports, forklift members, load bearing members or load bearing flooring are acceptable.

3.2.2.2.4 Unitized loads on pallets, box pallets or other media shall be provided with four-way forklift entry in accordance with the applicable specification or drawing.

3.2.3 Shipping containers for propeller assemblies and propeller blades. The shipping container shall be as small as possible, and where practicable, its height shall be equal to, or less than its width. The box shall be designed so length and width dimensions conform to normal freight handling and so the balance line of the loaded box will be approximately at the center. Where practicable, the container width shall not exceed 45 inches (1143 mm) when container length exceeds 7 feet (2.1 m). Unless otherwise specified, the exterior shipping container shall conform to Class 2, Style 2, PPP-B-621, or overseas type, Style A, PPP-B-601, or Type II, Style A, Class 1, MIL-B-26195 or MIL-C-9897, modified as required to meet the additional requirements specified herein. When used, plywood shall conform to Group B, CC exterior, NN-P-530. Unless otherwise specified, all lumber and plywood shall be treated for weathering in accordance with TT-W-571 using material conforming to Type I, II, TT-W-550. Unless otherwise specified, fire-retardant wood treated in accordance with MIL-L-19140 shall be furnished (see 6.2). When specified, triple wall fiberboard containers in accordance with PPP-B-640 shall be used for singly packed blades (see 6.2).

3.2.3.1 Ventilation. There shall be free passage of air to all sections of the shipping container. A cluster of four 1/2 inch (13 mm) diameter holes shall be bored upwards at a 45° angle near each upper corner of the sides and at any other place where ventilation is not provided. This provision does not apply to single blade containers conforming to PPP-B-640.

3.2.3.2 Internal drainage. Except for single blade containers conforming to PPP-B-640, provisions shall be made in the shipping container to insure that every pocket in which water may collect is provided with a means of drainage when the container is in the normal shipping position.

MIL-P-6074B

3.2.3.3 Rodent and insect protection. Drainage and ventilation holes in closed type containers shall be covered on the inside of the container with wire screening conforming to RR-W-365.

3.2.3.4 Closure and container reinforcement. The container shall be capable of being opened without damage, necessitating major repairs to the box or cover. For all levels of packing and modes of shipment, the shipping container shall be reinforced with straps or wires as specific for export shipment in the applicable container specification or drawing, except that no lengthwise straps are required. However, girthwise straps over the ends and over each set of blade supports are required. At the contractor's option, four 1-1/4 inch (32 mm) steel straps positioned at each end and in each fork-lift access opening may be used for the girthwise strapping. Filler cleats shall be used as necessary to eliminate the strapping passing over voids.

3.2.3.5 Skids and rubbing strips. Skids and rubbing strips shall be as specified in 3.2.2.2.

3.2.3.6 Propeller blade supports. The propeller blades shall be supported in the manner best suited for the particular blade design. To prevent moisture and corrosive elements from contacting the blades, blade blocking and supporting members shall be insulated with felt, aluminum foil and Grade A paper conforming to C-F-206, QQ-A-1876 and MIL-B-121 respectively. The Grade A paper shall be placed next to the propeller blades. For the insulation, substitute materials meeting the requirements of 3.2 and 3.2.1 and affording equal or greater protection may be utilized.

3.2.3.7 Construction requirements. After completion of the test in Section 4, the packed shipping container shall reveal no structural weaknesses such as shifting of contents, breaking or weakening of blocking, bracing, bolting, cushioning, etc. Waterproof barriers, moisture-vaporproof barriers and wrapping, if used in the package, shall be intact and capable of affording the intended protection. The exterior container shall show no panel bursting, splitting of cleats, or visible evidence of permanent deformation. No damage shall have resulted to the contents, as revealed where applicable by reassembly, check on balance, functional test, and by visual examination.

3.3 Packaging data and design drawings.

3.3.1 Packaging data. When specified, packaging data forms shall be prepared and submitted in accordance with MIL-STD-794 (see 6.2). The forms shall reflect the Level A requirements of 3.4.

3.3.2 Design drawings. Design drawings not previously approved, together with test reports and a breakdown of the preservation and packaging methods of 3.2.1, 3.2.2 and 3.2.3 proposed by the contractor, shall be submitted to the departmental activity initiating the procurement request for review and approval prior to preproduction or production packaging as applicable. The transmittal letter shall reflect the applicable procurement request number and a statement granting reproduction rights and unrestricted use of the drawing to the Government.

MIL-P-6074B

3.3.2.1 Proprietary data. Should the contractor determine that such special design drawings comprise proprietary data not to be released to the Government for reproduction and unrestricted use, the contractor, in submitting bids, or prior to acceptance of contracts or orders, as applicable, shall so advise the departmental activity initiating the procurement request. Upon receipt of such notice, determination will be made by the Government as to whether such requirements will be deleted or whether the detail requirements shall be furnished by the Government. Failure by the contractor to so notify the applicable departmental activity prior to submitting a bid and acceptance of procurement documents, as applicable, shall constitute release by the contractor of the proprietary rights to such drawings and the data contained therein.

3.4 Preservation and packaging. Unless otherwise specified, preservation and unit packaging shall be Level A; methods of preservation in accordance with MIL-P-116; materials and procedures as specified in 3.2 and 3.3 (see 6.2).

3.4.1 Cleaning and drying. Cleaning followed by drying, when applicable, shall be accomplished prior to preservation and unit packaging in accordance with the applicable procedures of MIL-P-116.

3.4.2 Preservation methods and quantities per unit package. Unless otherwise specified for specific items, preservation method of MIL-P-116 and quantities per unit package shall be as specified in the applicable classification of Table I. Selection of sub-method and preservative, when not specified, shall be at the option of the contractor (see 6.2).

3.4.2.1 Assemblies and sub-assemblies. Items replaceable as a unit and subject to overhaul shall be packaged or overpacked in reusable type containers adaptable to all modes of transportation where possible. When practicable for such items, Method II d shall be accomplished when Method II is specified in Table I except that round type metal exterior containers shall not be used for Air Force requirements as shipping container unless specified (see 6.2).

3.4.3 Propeller assemblies. All integral parts of the propeller shall be packed in the same shipping container except propellers weighing in excess of 1000 pounds (454 Kg). Propellers weighing in excess of 1000 pounds (454 Kg) may be packed in not more than two shipping containers unless authorized by the requiring activity. Interior containers and packaging materials immediately within the propeller shipping container shall be water-resistant.

3.4.3.1 Propellers with more than two blades. Such propellers shall be packed with all blades removed from the hub. However, when specified by the departmental activity initiating the procurement request in special cases of installation shipment, and when special modes of transportation or shuttle service are to be used, the propeller may be shipped assembled, preserved and protected in a manner suitable to the particular circumstances. Disassembled parts or sub-assemblies shall be preserved and packaged as specified in 3.4.2 (see 6.2).

MIL-P-6074B

3.4.3.2 Propellers with two blades. All two-blade propellers will normally be preserved and packaged assembled. Exposed metal surfaces shall be protected against corrosion with a preservative compound conforming to type P2 or P10 of MIL-P-116, as applicable. Except for the blades, areas covered with preservative shall be wrapped with greaseproof paper cushioned as necessary to prevent rupture of the barrier, and enclosed in a barrier conforming to Class 1 of MIL-B-131. The barrier shall be secured and sealed with tape conforming to PPP-T-60.

3.4.4 Historical records or log books. When historical records or log books are required, they shall be packaged in accordance with Method IA8 of MIL-P-116. In the case of multiple packed replacement blades with different serial numbers, the records of each blade shall be unit packaged separately and separate packages consolidated in a waterproof bag. The packaged historical records or log book shall be covered with a waterproof cover and attached to the outside of the shipping container in an accessible and protected location. The records cover shall be plainly marked "Historical Records" or "Log Book" as applicable.

3.4.5 Repair parts kits. Method of preservation for kit components shall be as specified in the applicable classification of Table I. Kit components requiring different methods of preservation used will afford the required protection to the most critical item contained therein. Each kit shall contain the quantities of parts or materials required by the kit part number or stock number. In instances where identification by visual observation would be difficult, kit components having similar characteristics shall be kept segregated by the use of separate containers or wraps and identified. Also, kit components for two or more related assemblies within the same kit shall be segregated. Method of preservation and consolidation of segregated packages shall be supplemented as necessary with cushioning, wraps or containers to afford necessary physical protection. Kits composed of two or more segregated packages shall be consolidated into a single unit container when practicable. When more than one outer container is required to package one complete kit, containers shall be conspicuously numbered consecutively; for example: Box 1 of 3, Box 2 of 3, Box 3 of 3. The containers for such kits shall be numbered so that like components shall always be contained in all like numbered containers of the kit and the total number of containers employed for a given kit shall not vary.

3.4.5.1 Skin type packaging. When used to segregate items within a kit, skin type packaging shall conform to MIL-STD-794.

3.4.5.2 Kit contents list. A list of all items in each kit shall be prepared in accordance with MIL-STD-794 and included with each kit. The list shall be placed in the number 1 container when more than one outer container is required.

3.4.6 Technical Order compliance parts kits. Each kit shall contain the quantities of parts or materials required as listed in the Technical Order, one copy of the applicable Technical Order, any technical instructions when specifically approved for inclusion in the kits, and one copy of any necessary

MIL-P-6074B

drawings. When kits are shipped in more than one container, the copies of the Technical Order and technical instructions and drawings when applicable shall be included in the number 1 container. Technical Order compliance parts kits shall be preserved and packaged and numbered when applicable, as specified in 3.4.5. The copies of the Technical Order, instructions, or drawings within the kit shall be preserved Method IC-1 of MIL-P-116, unless the kit container provides equal protection.

3.5 Intermediate packaging. Intermediate container and quantities shall conform to MIL-STD-794.

3.6 Packing. Unless otherwise specified, replaceable items subject to overhaul packed in reusable containers (see 3.4.2.1) shall be packed Level A and all other items Level B, except as specified in 3.6.8 (see 6.2). When applicable, the requirements of 3.6.9 shall apply to all levels of packing.

3.6.1 Cushioning, bolting, blocking, bracing and containers. When required for protection to the items or interior barriers, cushioning, bolting, blocking and bracing shall be as specified in 3.2.1. Exterior containers shall conform to the requirements of the applicable level of packing except that round type metal exterior containers shall not be used for Air Force requirements (see 3.4.2.1).

3.6.2 Weight limitations. The gross weight of each shipping container, when packed for shipment, shall not exceed 200 pounds (91 Kg) for Level A and Level B packing, unless the gross packed weight of a single item, special quota spares pack-up, parts kits, or several items forming an assembly carried under a single stock number exceeds 200 pounds (91 Kg). In no instance shall the weight limitations of the shipping container be exceeded.

3.6.2.1 Unitized loads. For all levels of packing, shipping containers will be unitized on flat pallets, box pallets or other media to the maximum extent consistent with economy. In such instances, the containers shall be adequately secured to, or within the unit media. The gross weight shall not exceed 1000 pounds (454 Kg) whenever practicable. The weight limitations of the unit media used shall not be exceeded.

3.6.3 Hi-Value items. At no time will the combination of items designated Hi-Value and non-Hi-Value within the same shipping container be permitted. Hi-Value markings shall be reflected on all containers of Hi-Value items.

3.6.4 Level A. Level A packing shall be as specified in MIL-STD-794 except that exterior containers shall conform to 3.2.2, 3.6.7 or 3.6.8, as applicable.

3.6.5 Level B. Level B packing shall be as specified in MIL-STD-794 except that the exterior containers shall conform to 3.2.2, 3.6.7 and 3.6.8, as applicable.

3.6.6 Level C. Level C packing shall be as specified in MIL-STD-794, 3.6.7 and 3.6.8, as applicable.

MIL-P-6074B

3.6.7 Air shipments. Except for items specified in 3.4.2.1, packed in reusable type containers, items to be shipped by air shall be packed in accordance with MIL-A-25175 (or the applicable detail specifications or instructions) to the maximum extent consistent with economy. Such items so packed shall be plainly marked as follows: "Packed For Air Shipment Only - Repack Prior to Surface Shipment." When the first mode of transportation is by surface and items are to be later repacked for air movement, such containers shall be plainly marked as follows: "Repack in accordance with MIL-A-25175 (or the applicable detail specification or instruction) for Air Shipment." These designated container markings do not apply to containers packed for shipment meeting the requirements of MIL-A-25175 and which are also suitable for surface movement.

3.6.8 Installation shipments. All items to be shipped for installation purposes at first destination, shall be packed Level C, except for export surface shipments. When export surface shipment is required, Level A shall be used.

3.6.9 Dangerous items. Dangerous items shall be packed and marked as required for the mode of transportation in accordance with current military or tariff regulations as applicable.

3.7 Marking. Unless otherwise specified, all interior, unit, intermediate and shipping containers shall be marked in accordance with MIL-STD-129 and the additional markings specified below (see 6.2).

- a. Containers shall reflect the markings specified in 3.4.4, 3.4.5, 3.4.6, 3.6.3, 3.6.7 and 3.6.9, as applicable.
- b. When applicable, the special markings of MIL-STD-129 shall be applied to exterior container as applicable.

3.8 Workmanship. Workmanship shall be such as to insure compliance with the requirements of this specification and shall be of good quality.

4. QUALITY ASSURANCE PROVISIONS

Unless otherwise specified, the quality assurance provisions shall be in accordance with MIL-STD-794 and as specified below (see 6.2).

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by 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 supplies and services conform to prescribed requirements.

MIL-P-6074B

4.1.1 Responsibility for compliance. All items must meet all requirements of Section 3. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

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

- a. First article inspection (see 4.3).
- b. Quality conformance inspection (see 4.5).

4.3 First article inspection. First article inspection shall be required prior to production preservation, packaging and packing unless satisfactory evidence of previous compliance by similar methods of identical items or items having similar physical characteristics can be produced.

4.3.1 Pilot pack. Only one pilot pack will be required if it succeeds in passing the test.

4.4 Rough handling test. In addition to the rough handling test of MIL-STD-794, the following test shall apply to propeller and propeller blade containers when rough handling tests are required.

- a. Grabhook lift test. The loaded container shall be lifted clear of the floor by grabhooks applied on opposite sides of the container at the center of balance.
- b. Forklift test. A stack of three loaded containers or a loaded container with a weight equivalent to twice the weight of the loaded container superimposed on top shall be lifted clear of the floor by standard forklift equipment once from each side. In addition to the sidewise lifting, each end of the stack of containers shall be lifted by the forklift equipment a height of 12 inches (305 mm) from the floor.
- c. Concentrated load resistance. A load simulating the effect of similarly loaded containers stacked to a minimum height of 16 feet (4.9 m) shall be applied to the top of the container.
- d. Distributed load resistance. A weight of sufficient magnitude to insure a bearing pressure of 175 pounds per square foot (1207 kPa) shall be evenly distributed over the upper surface of the container.

4.5 Quality conformance inspection. This inspection shall consist of the inspections and tests specified in MIL-STD-794.

MIL-P-6074B

4.6 The Government Inspector shall ascertain that the requirements of 3.3 are complied with.

5. PACKAGING

This section is not applicable to this specification.

6. NOTES

6.1 Intended use. It is intended that this specification be used in preparing for shipment and storage all items identified as belonging to Federal Supply Classification 1610 when referenced in procurement documents. It shall also be used as a guide by the contractor in the development of detail preservation, packaging and packing data to be used in procurement of Federal Supply Classification 1610 items when such data is not available or specified.

6.2 Ordering data. Acquisition documents should specify the following:

- a. Title, number and date of this specification.
- b. Any options or special requirements not covered herein (see 3, 3.2.3, 3.3.1, 3.4, 3.4.2.1, 3.4.3.1, 3.6, 3.7, 4).

6.3 Definitions.

- a. Level A - The degree of preservation or packing required for protection of material against the most severe conditions known or anticipated to be encountered during shipment, handling and storage. Preservation and packing so designated will be designed to protect material against direct exposure to extremes of climate, terrain, operational and transportation environments without protection other than that provided by the pack (see 3.6.4).
- b. Level B - The degree of preservation or packing required for protection of material under known favorable conditions during shipment, handling and storage. Preservation and packing so designated will be designed to protect material against physical damage and deterioration during favorable conditions of shipment, handling and storage (see 3.6.5).
- c. Level C - The degree of preservation or packing required for protection of material under conditions known to be less severe than those requiring Level B. Preservation and packing so designated will be designed to protect material against physical damage and deterioration during favorable conditions of shipment, limited handling and short term storage (see 3.6.6).
- d. Critical items and surfaces - Definition is in accordance with MIL-P-116.

MIL-P-6074B

TABLE I. Preservation methods and unit package.

CLASSIFICATION I: Propeller components, accessories or kits for which preservation, packaging and packing data has previously been established.					
GRP	Characteristics ¹	Level A		Level C	
		Basic method of preservation	QUP ²	Basic method of preservation	QUP ²
1	Items covered by commodity specifications or procedural specifications	Preserve, package, and pack in accordance with the applicable requirements of specific specification or when specified, the approved ANA PT List.			
CLASSIFICATION II: Individual parts made of steel, iron or magnesium (ferrous metal). Part or all of the surfaces of the item is bare, i.e., not protected by paint, metallic plating, oxide coating or other protective finish.					
GRP	Characteristics ¹	Level A		Level C	
		Basic method of preservation	QUP ²	Basic method of preservation	QUP ²
1	Harmed by a preservative or by which the application or removal of a preservative may be difficult or may result in damage to the item. Functional lubricants will be used as required.				
1a	Critical.....	II	Single	1A	Single
1b	Non-Critical.....	1A	Single	1C	Single
2	Not harmed by a preservative compound				
2a	Critical.....	1A (w/preservative)	Single	I	See Table II
2b	Non-Critical.....	I	See Table II	I	See Table II
3	Items on which a preservative coating or lubricant has been applied as part of the manufacturing process. This coating must be protected. Additional preservatives shall not be used on these items.				

TABLE I. Preservation methods and unit package (Continued).

GRP	Characteristics ¹	Level A		Level C	
		Basic method of preservation	QUP ²	Basic method of preservation	QUP ²
3a	Critical.....	1A	Single	1C	Single
3b	Non-Critical.....	1C	Single	1C	Single
CLASSIFICATION III: Individual parts made of bare or partially bare non-ferrous metal, or ferrous and non-ferrous metals completely protected by paint, metallic plating, oxide coating or other protective finish.					
GRP	Characteristics ¹	Level A		Level C	
		Basic method of preservation	QUP ²	Basic method of preservation	QUP ²
1	Critical and non-critical items fully painted, anodized, plated for soldering, plated with chromate coatings, or bare alclad aluminum, or bare corrosion resistant steel (high grade stainless steel).....	III	See Table II	III	See Table II
2	Critical items other than items in 1, harmed by a preservative or by which the application or removal of a preservative may be difficult or may result in damage to the item. Functional lubricants will be used as required.....	1A	Single	1C	Single
3	Critical items other than 1, not harmed by a preservative compound.....	I	See Table II	I	See Table II
4	Non-critical items other than items in 1.....	III	See Table II	III	See Table II

MIL-P-6074B

TABLE I. Preservation methods and unit package (Continued).

GRP	Characteristics ¹	Level A		Level C	
		Basic method of preservation	QUP ²	Basic method of preservation	QUP ²
5	Items on which a preservative coating or lubricant has been applied as part of the manufacturing process. This coating must be protected. Additional preservatives shall not be used on these items				
5a	Critical.....	1A	Single	1C	Single
5b	Non-Critical.....	1C	Single	1C	Single
CLASSIFICATION IV: Individual parts made of non-metal.					
GRP	Characteristics ¹	Level A		Level C	
		Basic method of preservation	QUP ²	Basic method of preservation	QUP ²
1	Items harmed by water, oil, grease or preservatives. Preservatives which may be harmful to those items are not used.				
1a	Leather, critical textiles.	1A	Single	1C	Single
1b	Other than items in 1a.....	1A	Single	1C	Single
2	Items not harmed by water, oil, grease or preservatives.....				
2a	Items given a protective coating or treatment during the manufacturing process. Thus coating must be protected.....	1C	Single	1C	Single
2b	Other than items of 2a.....	III	See Table II	III	See Table II

MIL-P-6074B

TABLE I. Preservation methods and unit package (Continued).

CLASSIFICATION V: Assemblies or fabricated parts made of combinations of metal, combinations of non-metals, metals in combination with non-metals.					
GRP	Characteristics ¹	Level A		Level C	
		Basic method of preservation	QUP ²	Basic method of preservation	QUP ²
1	Non-sealed electrical instruments, control assemblies, items with bearing movement, electrically balanced items with moving surfaces. Functional lubricants will be used as required.....				
1a	Critical.....	II	Single	1A	Single
1b	Non-Critical.....	1A	Single	1C	Single
2	Other than items in 1. Preservatives will not be used on those items that would be harmed by a contact preservative or which are not to be disassembled for cleaning or from which it would be difficult to remove a contact preservative. Functional lubricants will be used as required...	Preservation method and QUP to be in accordance with the requirements for material requiring the highest degree of protection as determined from these tables.			

NOTES:

1. For definition of Critical, see 6.3.
2. The quantity per unit package (QUP) for items 100% replaceable at repair and overhaul, preserved and packaged Method 1A, 1C or II may be in quantities required per assembly.

NOTICE. When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

MIL-P-6074B

TABLE II. Quantity Per Unit Package (QUP)

1. The QUP for all items that cost \$10.00 or more shall be one.
 2. The QUP for all items issued as pairs, sets, kits, etc., shall be one pair, one set, one kit, etc., as applicable.
 3. The QUP for items that cost less than \$10.00 which because of their irregular configuration, delicate or fragile nature, which do not lend themselves to multiple packs shall be one.
 4. The QUP for items that cost less than \$10.00 preserved Method 1A, 1C or II shall be one except that when such items are 100 percent replaceable in repair and overhaul, the QUP may be in quantities required per assembly.
 5. The QUP for items over 3 cu. ft. in cube or over 5 pounds in weight shall be one.
 6. The QUP for items not listed in 1, 2, 3, 4 or 5 shall be as specified in the outline below.

Weight & Cube Factors	Use Factors	Replacement Factors	Price Factors and Quantity Per Unit Package (QUP) Determination											
			\$0.0001 thru \$0.05		\$0.06 thru \$1.00		\$1.01 thru \$2.50		\$2.51 thru \$5.00		\$5.01 thru \$10.00			
			Parts Common QUP	Parts Peculiar QUP	Parts Common QUP	Parts Peculiar QUP	Parts Common QUP	Parts Peculiar QUP	Parts Common QUP	Parts Peculiar QUP	Parts Common QUP	Parts Peculiar QUP		
0 thru 0.01 cu. ft. and 0 thru 0.01 lb.	Consumer & Maintenance Item	1% to 20% 21% to 50% 50% or more	25	10	10	5	10	5	5	10	5	1	1	1
			50	25	25	10	10	5	10	5	10	5	5	1
0.02 thru 1.00 cu. ft. and 0.02 thru 2.00 lb.	Consumer & Maintenance Item	1% to 20% 21% to 50% 50% or more	50	25	25	10	10	5	10	5	10	5	1	1
			100	50	50	25	25	10	10	5	10	5	10	5
1.01 thru 2.00 cu. ft. and 0.02 thru 2.00 lb.	Consumer & Maintenance Item	1% to 20% 21% to 50% 50% or more	10	5	5	1	1	1	1	1	1	1	1	1
			25	10	10	5	10	5	10	5	10	5	1	1
2.01 thru 3.00 cu. ft. and 2.01 thru 5.00 lb.	Consumer & Maintenance Item	1% to 20% 21% to 50% 50% or more	25	10	10	5	10	5	10	5	10	5	1	1
			50	25	25	10	10	5	10	5	10	5	10	5

MIL-P-6074B

6.4 Subject term (key word) listing.

Propeller; Preservation, Packaging, Packing of
Propeller Accessories; Preservation, Packaging, Packing of
Propeller Spares; Preservation, Packaging, Packing of

Custodians:

Army - AV
Navy - AS
Air Force - 99

Preparing Activity:

Navy - AS
(Project No. PACK-0818)

Review:

Army - ME, SM
Air Force - 84

User:

Army - MI

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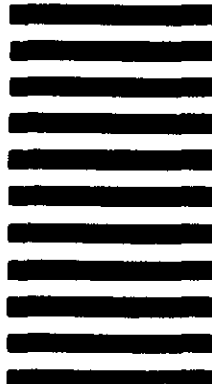
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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

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1. DOCUMENT NUMBER MIL-P-6074B		2. DOCUMENT TITLE Preservation, Packaging and Packing of Propellers,....	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR <input type="checkbox"/> USER <input type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER (Specify): _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
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7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
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