

[INCH-POUND]
PPP-P-40C
May 25, 1998
SUPERSEDING
PPP-P-40B
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FEDERAL SPECIFICATION

PRESERVATION AND PACKING OF HAND TOOLS; TOOLS AND TOOL ACCESSORIES FOR POWER DRIVEN, METAL AND WOODWORKING MACHINERY

The General Services Administration has authorized the use of this specification by all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers the requirements for preservation, packing and marking of hand tools; tools and tool accessories for power driven, metal and woodworking machinery for various degrees of protection required for shipment and storage. There are no classification designations in this specification.

2. APPLICABLE DOCUMENTS

2.1 Government publications. The following documents, of the issues in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commanding Officer (Code 15E2), Seabee Logistics Center, 1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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Federal Specifications

L-P-378	- Plastic Sheet and Strip, Polyolefin.
OO-M-340	- Milling, Grinding, Drilling, and Slotting Attachment.
QQ-A-1876	- Aluminum Foil.
VV-L-800	- Lubrication Oil, General Purpose, Preservative (Water-Displacing, Low Temperature).
PPP-B-26	- Bag, Plastic, (General Purpose).
PPP-B-566	- Boxes, Folding, Paperboard.
PPP-B-576	- Boxes, Wood-Cleated Panelboard.
PPP-B-585	- Boxes, Wood, Wirebound.
PPP-B-601	- Boxes, Wood, Cleated-Plywood.
PPP-B-621	- Boxes, Wood, Nailed and Lock-Corner.
PPP-B-665	- Boxes: Paperboard, Metal Edged and Components.
PPP-B-676	- Boxes, Setup.
PPP-B-1055	- Barrier Material, Waterproof, Flexible.

Federal Standard

FED-STD-123	- Marking for Shipment (Civil Agencies).
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Commercial Item Descriptions

A-A-550	- Bags, Paper, Grocers.
A-A-1249	- Paper, Wrapping Tissue.
A-A-50177	- Paper, Lens.
A-A-51141	- Plate, Lapping.
A-A-52287	- Insecticide, Paradichlorobenzene.

Military Specifications

MIL-P-149	- Plastic Coating Compound, Strippable (Hot Dipping).
MIL-S-196	- Support Items, Accessories, and Kits, Mechanical: Packaging of.
MIL-L-3150	- Lubricating Oil, Preservative, Medium.
MIL-P-3420	- Packaging Materials, Volatile Corrosion Inhibitor Treated, Opaque.
MIL-C-5501	- Cap and Plug, Protective, Dust and Moisture Seal.
MIL-I-8574	- Inhibitor, Corrosion, Volatile, Utilization of.
MIL-C-11796	- Corrosion Preventive Compound, Petroleum Hot Application.
MIL-PRF-16173	- Corrosion Preventive Compound, Solvent Cutback, Cold-Application.
MIL-E-17555	- Electronic and Electrical Equipment, Accessories, Provisioned Items (Repair Parts): Packaging of.
MIL-L-21260	- Lubricating Oil, Internal Combustion Engine, Preservative and Break-In.
MIL-B-22019	- Barrier Materials, Transparent, Flexible, Sealable, Volatile Corrosion Inhibitor, Treated.

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- MIL-B-22020 - Bag, Transparent, Flexible, Sealable, Volatile Corrosion Inhibitor, Treated.
- MIL-B-22191 - Barrier Material, Transparent, Flexible, Heat Sealable.

Military Standards

- MIL-STD-129 - Standard Practice for Military Marking.
- MIL-STD-1186 - Cushioning, Anchoring, Bracing, Blocking, and Waterproofing; with Appropriate Test Methods.
- MIL-STD-2073-1 - Standard Practice for Military Packaging.

Military Handbooks

- MIL-HDBK-129 - Military Marking.
- MIL-HDBK-774 - Palletized Unit Loads.

(Copies of federal and military specifications and standards, commercial item descriptions, and military handbooks required by contractors in connection with specific procurement functions are obtained from the Defense Automated Printing Services, Attn: DoDSSP, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

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

AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANSI)

- ANSI-Z1.4 - Sampling Procedures and Tables for Inspection by Attributes.

(Private sector and civil agencies may purchase copies of this voluntary standard from the American National Standards Institute, Inc., 11 West 42nd Street, New York, NY 10036.)

ASTM

- ASTM D 1974 - Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes.
- ASTM D 4727 - Standard Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes.
- ASTM D 5118 - Standard Practice for Fabrication of Fiberboard Shipping Boxes.
- ASTM D 5168 - Standard Practice for Fabrication and Closure of Triple-Wall Corrugated Fiberboard Containers.
- ASTM D 5486 - Standard Specification for Pressure-Sensitive Tape for Packaging, Box Closure, and Sealing.

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(Private sector and civil agencies may purchase copies of these voluntary standards from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

3. REQUIREMENTS

3.1 First article. When specified (see 6.2), the contractor shall furnish one complete packaged and packed item for first article inspection in accordance with 4.2.1.

3.2 Materials. Materials used shall be free from defects which would adversely affect the performance or maintainability of individual components or of the overall assembly. Materials not specified herein shall be of the same quality used for the intended purpose in commercial practice. Unless otherwise specified herein, all equipment, material, and articles incorporated in the work covered by this specification are to be new and fabricated using materials produced from recovered materials to the maximum extent possible without jeopardizing the intended use. The term “recovered materials” means materials which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. Unless otherwise specified, none of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this specification.

3.2.1 New materials. The use of newly developed packaging and packing materials and procedures are encouraged and recommended, and will be permitted under the conditions specified herein, provided they are equal to or better than similar approved materials and procedures. Where the material or procedure is not covered by a specific government specification, the manufacturer or fabricator shall furnish documented evidence to the procuring activity, certified by an approved testing laboratory that the material or procedure is equal to or exceeds the requirements of the specification for a similar material or procedure. If after a review of the material or procedure and the related certified compliance report or the witnessing of the stipulated tests, it is the opinion of the procuring activity that the material or procedure meets or exceeds the criteria established for similar materials or procedures, authorization for use shall be granted.

3.3 Disassembly. Where, in the case of an assembled tool, it is impossible to coat all critical areas with the required preservative, the tool shall be disassembled in accordance with the manufacturer’s practice. This shall be done to the extent necessary to ensure thorough cleaning, drying and preservation of all critical areas (not applicable to electric and pneumatic tools).

3.4 Preservation. Unless otherwise specified herein, cleaning, drying and preservation shall be in accordance with MIL-STD-2073-1 and table I (pages 18 through 43) herein. When an item is procured in conformance with a commodity specification having detailed packaging requirements which differ from the requirements of this specification, the preparation for delivery requirements of the commodity specification shall apply. Requirements in table I are assigned by category; methods and submethods of unit protection are assigned on the basis of the type of unit protection most commonly required for a specific category.

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TABLE I. Preservation and packaging. (Table I is on pages 18 through 43.)

3.4.1 Preservative protection - intimate wrap. A greaseproof wrap of material conforming to MIL-B-22191, type II or QQ-A-1876 (type and class optional) shall be utilized for items coated with a preservative in accordance with MIL-STD-2073-1. Preserved items placed directly into a greaseproof barrier bag do not require the wrap unless sharp corners or projections are subject to puncturing the barrier bag. Parts and items coated with MIL-PRF-16173, grade 1 or grade 4 preservatives and subsequently dried, or parts enclosed in volatile corrosion inhibitors (VCI) treated barrier style C, D, or G of MIL-P-3420 are exempt from wrapping as specified herein.

3.4.2 Methods of preservation (unit protection). In addition to the requirements of MIL-STD-2073-1, the following requirements for basic methods and submethods of MIL-STD-2073-1 shall apply. Unless otherwise specified (see 6.2 and 6.3), methods of preservation (unit protection) shall be as specified in table I, column 3 and in accordance with MIL-STD-2073-1. In the event two or more methods of preservation are listed in table I, the method selected shall be at the option of the supplier.

3.4.2.1 Plastic coating. Unless otherwise specified (see 6.2), plastic coating utilized in preservation shall conform to MIL-P-149, type II. After the compound sets, the item shall be boxed, canned, or wrapped in a greaseproof barrier material to retain the oil which exudes from the compound. Coated items shall be blocked, or cushioned as necessary to ensure that the static load is not greater than 30 pounds per square inch (206.84 kilopascal (kPa)). The compound shall be applied in such a manner that, when removed, none shall be retained in crevices, oil holes, or similar cavities. Directions for removal of coating shall be included in each package. The caution marker shall read as follows: "CAUTION: TO REMOVE PROTECTIVE COATING, SPLIT AND PEEL, USING A CHISEL MADE OF WOOD OR PLASTIC. DO NOT USE SHARP METAL TOOLS OR SOLVENTS TO REMOVE COATING." Identification markings may be applied to packs prior to the application of the strippable compound.

3.4.2.2 Volatile corrosion inhibitors (VCI). When specified (see 6.2), VCI treated materials may be used as an alternate to the methods of preservation specified in table I. Unless otherwise specified (see 6.2), the preservation procedures shall be in accordance with MIL-I-8574. When VCI materials are used, contact preservatives shall not be required. Transparent, flexible, sealable VCI films shall conform to MIL-B-22019, and VCI treated bags shall conform to MIL-B-22020. When items are unit packaged with VCI treated materials, unit packages shall have a caution label, or markings as follows: "WASH HANDS AFTER HANDLING PRESERVATION MATERIAL TO AVOID IRRITATION OF EYES AND SKIN." Closure of VCI barrier wrapped items shall be accomplished by taping all seams with pressure-sensitive tape conforming to ASTM D 5486 to form an airtight enclosure.

3.4.2.3 Transparent plastic packages. Alternately, tools may be unit packaged in heat sealed transparent materials. The package shall be capable of meeting the tests specified in MIL-STD-2073-1, for the method of preservation specified in table I for the applicable tools. For all methods of preservation, except method IB, film and bag classification types I or II of MIL-B-22191 shall apply. Film and bag classification of MIL-B-22191 may be used for

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method III unit protection only (see 6.6). When shaped, preformed, or molded packages are used, they shall incorporate provisions for separating unit quantities by scoring or other means. The plastic material shall be compatible with other materials utilized in the process of preservation and the packaged items.

3.4.2.4 Air motors. Interior surfaces of air motors shall be coated with a preservative conforming to MIL-L-21260, grade 30 by injection into the air stream while operating the motors until the preservative appears at the exhaust ports. Air inlets and outlets shall be closed with plastic plugs conforming to MIL-C-5501, or covered with greaseproof barrier material and secured in place with pressure sensitive tape conforming to ASTM D 5486. Exterior unpainted metal surfaces of the air motors and handles subject to corrosion shall be coated with MIL-PRF-16173, grade 1 preservative. Chucks and chuck adapters shall be coated in accordance with MIL-L-3150 and wrapped with greaseproof barrier material secured in place with pressure-sensitive tape conforming to ASTM D 5486.

3.4.2.5 Air line lubricators and strainers. Air line lubricators and strainers shall be coated with MIL-L-21260, grade 30, internally. Exterior unprotected surfaces subject to corrosion shall be coated with MIL-PRF-16173, grade 1 or grade 4 preservative. Openings into lubricators removed from the hose shall be sealed with pressure-sensitive tape conforming to ASTM D 5486 or sealed with plastic caps or plugs as specified in 3.4.2.4. The lubricators and strainers shall be individually wrapped with barrier material and secured with pressure-sensitive tape conforming to ASTM D 5486.

3.4.2.6 Gear cases. Gear cases containing lubricant shall be drained and the housing and gears flushed with petroleum solvent agitated with compressed air. The gears shall not be operated with the cleaning solvent in the gear case. The solvent shall be drained and the housing thoroughly dried. The drain and filter plugs shall be coated with MIL-PRF-16173, grade 1 preservative and replaced. The gear housing shall be refilled with universal gear lubricant, and the tool operated for a sufficient period of time to coat all parts with lubricant.

3.4.2.7 Repair parts. Repair parts shall be preserved in accordance with MIL-STD-2073-1 for mechanical and MIL-E-17555 for electrical items.

3.4.2.8 Technical publications. Technical publications, which accompany shipment prepared for level A, shall be packaged in accordance with method 33 of MIL-STD-2073-1. Technical publications shall not be placed within the sealed barrier material used to enclose equipment. Copies of the publication shall be packed in the shipping container housing the main unit and packing lists shall indicate which container includes the technical publication and shall indicate the approximate location therein. Technical publications, when shipped in bulk quantities, shall not be individually wrapped, but shall be packed in accordance with the requirements of the applicable technical publication specification or packaged in containers conforming to MIL-STD-2073-1.

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3.4.2.9 Electric hand tools. Electric hand tools having windings and armatures shall have ports or other openings covered with pressure-sensitive tape conforming to ASTM D 5486. Exposed metal surfaces shall be protected as specified in 3.4.2.4.

3.4.2.10 Hydraulic units. Units that are drained shall be flushed with a preservation compound as specified (see 6.2). Units which are not drained, shall be sealed to prevent leakage of the hydraulic fluid during handling, shipment, and storage. All external unpainted ferrous metal surfaces shall be covered with MIL-PRF-16173, grade 1 or grade 4 preservative.

3.4.2.11 Pneumatic hose and fittings. Pneumatic hose and fittings shall be cleaned and preserved in accordance with MIL-STD-2073-1.

3.4.3 Cushioning and cushioning materials (see 3.5.1.2). Tools, repair parts and accessories shall be cushioned in accordance with MIL-STD-2073-1, to prevent damage to the item and prevent puncture or tearing of the barrier materials. Excessive use of cushioning within the unit package shall be avoided. Excelsior, shredded newspaper, and similar materials which have not been chemically refined for noncorrosiveness are unacceptable for interior packaging, unless they are enclosed in a sealed waterproof barrier conforming to PPP-B-1055. Loose fill materials for applications such as cushioning, fill, stuffing and dunnage is prohibited. Cushioning materials used within the unit package shall be in accordance with MIL-STD-2073-1. When specified (see 6.2), materials selected for cushioning and wrapping materials shall be fire-resistant.

3.4.3.1 Preserved (coated) items. Cushioning materials shall be separated from all items to which a preservative compound is applied by a barrier material conforming to QQ-A-1876, type II or MIL-B-22191.

3.4.3.2 Uncoated or protective coated items. Items not requiring a contact preservative such as completely plated, painted, or prime coated; nonferrous items or items that may be damaged by contact preservatives shall not have preservatives applied. The items shall be separated from cushioning which has not been proven to be noncorrosive. One of the aforementioned barriers or material conforming to A-A-1249, L-P-378, or MIL-B-22191, type III shall be used when physical protection is required (see 6.6).

3.4.3.3 Other items. A barrier is not required between the cushioning of such items as textiles, rubber, plastic, and other such items.

3.4.4 Unit pack quantities. Unless otherwise specified (see 6.2), the quantity of identical items in each unit pack shall be in accordance with table I, column 4.

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3.4.5 Sets or kits. When sets or kits of tools are furnished, preservation of individual tools shall be in accordance with table I, except as follows:

- a. Sets or kits of tools furnished in a plastic or leather case which are not greater than 10 pounds (4.54 kilogram (kg)) shall have each tool preserved as specified in table I and processed method 33. Sets which are greater than 10 pounds (4.54 kg) shall be processed method 32 of MIL-STD-2073-1.
- b. Sets or kits of tools furnished in finished wooden cases, such as varnished wood micrometer cases intended for use as a tool box or chest, shall have each tool preserved as specified in table I. The unit shall be packaged method 32 of MIL-STD-2073-1. Projections such as hinges and catches on the inner container shall be cushioned with material specified in 3.4.3. The container shall be in accordance with ASTM D 5118.
- c. Tools in a kit, which may be damaged by preservatives from other tools, shall be wrapped or bagged.
- d. Sets and kits which are not furnished in a carrying case shall be packed in a unit container. The container selected shall accommodate the load and size to be packed therein. Selection of unit container shall be from table II.

To prevent damage during handling, shipment and storage each tool shall be preserved, wrapped and cushioned, as required. Tools shall be placed and secured in the individual slots or contour cut-outs provided in the carrying case or arranged within the set or kit-container in a compact manner.

3.4.5.1 Set or kit cases. Alternatively, wrapping of each tool in barrier material specified in 3.4.1 shall not be required when all interior surfaces of the wooden case contacting the tools are preserved as follows: When three coats of grade A nitrocellulose resin or acrylic lacquer are applied.

3.4.6 Unit containers. Unless otherwise specified (see 6.2), unit containers not specifically required for the method of preservation shall conform to the requirements of specifications listed in table II, at the option of the contractor. Unit containers shall be of minimum cube and tare. Containers shall conform to the weather-resistant type, class, or grade specified. Containers not providing waterproof or weather-resistant characteristics shall be overwrapped in barrier material providing equal weather-resistance of ASTM D 5118 and ASTM D 1974 class weather-resistant boxes.

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TABLE II. Unit container.

Specification/ standard	Title
PPP-B-26	Bags, Plastic (General Purpose). <u>1/</u>
PPP-B-665	Boxes, Folding, Paperboard.
PPP-B-566	Boxes, Paperboard, Metal Stayed.
PPP-B-676	Boxes, Setup.
A-A-550	Bags, Paper, Grocers.
ASTM D 5118	Boxes, Fiberboard.

1/ Not acceptable for Navy use.

The container shall be closed in accordance with the applicable specification and the appendix thereto.

3.4.7 Intermediate packaging. Unless otherwise specified (see 6.2), unit packs either bagged or wrapped shall be intermediate packaged in containers specified in table III for level A, in quantities of 5, 10, 20, 25, 50, 75, or 100, as specified (see 6.2). Gross weight and cube shall be in accordance with applicable container specification.

TABLE III. Intermediate container.

Specification/ standard	Level A	Level B	Footnote
	Variety, class, and style	Variety, class, and style	
PPP-B-566	Variety 2	Variety 1	<u>1/</u>
PPP-B-665	All styles, class 2	All styles, class 1	
PPP-B-676	Variety 2 or 4	Variety 1 or 3	
ASTM D 5118	Class weather-resistant	Class domestic	

1/ Army - not acceptable for procurement unless placed in a waterproof barrier material.

Container closure shall be in accordance with the applicable container specification or appendix thereto.

3.4.7.1 Limitation of intermediate packages. Unless otherwise specified (see 6.2), unit packs requiring intermediate packaging shall be packaged in containers governed by the following except when the total quantity to be shipped will result in one intermediate container:

- Maximum of 100 unit packs.
- Maximum net load of 40 pounds (19.55 kg).
- Maximum size of 1.5 cubic feet (24.02 kilogram per cubic metre (kg/m³)) with not less than each of two dimensions not greater than 16 inches (406.40 millimetre (mm)).

3.5 Packing. Packing shall be for levels A or B (with provisions for minimal packing) (see 6.2).

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3.5.1 General requirements for levels A and B. Shipping containers shall be of uniform size, minimum tare weight and cube, and designed to fit the contents to result in a compact, nonshifting load. Except as specified herein (see 3.5.1.1), the weight limitation of the applicable container shall be as specified in the container specification or appendix thereto. Containers greater than 200 pounds (90.72 kg) gross weight and containers with length and width dimensions of 48 x 24 inches (1 219.20 x 609.60 mm) (or more) weighing more than 100 pounds (45.36 kg) shall be modified with skids in accordance with the applicable box specification. Fiberboard and wirebound boxes greater than 200 pounds (90.72 kg) gross weight shall be modified with a wooden-pallet base, fabricated from nominal 1-inch (25.40 mm) lumber deck boards and nominal 3- x 4-inch (76.20 x 101.60 mm) lumber skids. Closure shall be in accordance with the applicable box specification and the appendix thereto.

3.5.1.1 Weight limitations.

3.5.1.1.1 Civil agency. Unless otherwise specified (see 6.2), the gross weight of the shipping container for level B packing shall be approximately 65 pounds (29.48 kg) but not greater than 80 pounds (36.29 kg), except when a single item is greater than the weight limitations. Quantities shall be specified in the contract (see 6.2).

3.5.1.1.2 Army requirements. The gross weight of the exterior shipping container shall be governed by the limitations of the applicable container specification, but not greater than 200 pounds (90.72 kg).

3.5.1.1.3 Navy and Air Force requirements. Unless otherwise specified (see 6.2), the gross weight of each shipping container shall be not greater than 200 pounds (90.72 kg) except when a single item is greater than the weight limitation.

3.5.1.2 Cushioning, anchoring, blocking and bracing. Cushioning, anchoring, blocking, and bracing shall be provided to restrict movement of the packed items within the shipping container. Application shall be in accordance with MIL-STD-2073-1, MIL-STD-1186, and applicable container specification, and the appendix thereto, as applicable. Loose fill material shall not be used for packing applications.

3.5.1.3 Cube reduction. Disassembly of items shall be in accordance with the contractor's recommendations to reduce cubage, subject to first article approval. In no case shall disassembly be to such an extent as to render field reassembly difficult or impractical with available tools.

3.5.2 Level A.

3.5.2.1 Shipping container. Tools and accessories shall be preserved as specified (see 6.2) and packed in shipping containers as indicated in table IV for level A. The container selection shall be at the option of the contractor. Container closure shall be in accordance with the applicable container specification or appendix thereto.

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TABLE IV. Shipping container.

Specification/ standard	Level A class or type	Level B class or type
PPP-B-576	N/A	Class 2
PPP-B-585	Class 3	Class 2 or 3
PPP-B-601	Overseas type	Overseas or domestic type
PPP-B-621	Class 2	Class 1 or 2
ASTM D 5168	N/A	Class 2
ASTM D 5118	N/A	Weather-resistant class domestic

3.5.2.2 Caseliner. When specified (see 6.2), caseliners shall be used when nonweather-resistant intermediate or unit containers are overpacked into exterior shipping containers. When used, caseliner material shall conform to PPP-B-1055.

3.5.2.2.1 Caseliners shall not be required when shipping containers are packed with tools, accessories, or packs meeting the following:

- a. Tools or accessories which are completely painted.
- b. Tools or accessories are coated with type MIL-PRF-16173, grade 1 or grade 4 preservative provided the interior critical surfaces, if any, are adequately preserved and all openings sealed with sealing materials approved by the procuring activity.
- c. Method 30, method 40, and method 50 packages.
- d. Intermediate packages, or unit packages when no intermediate package is required, for which the container is a fiberboard box conforming to class weather-resistant of ASTM D 5118 and waterproofed as specified in ASTM D 1974.

3.5.2.3 Closure and gross weight. Shipping containers shall be closed, reinforced and banded in accordance with the applicable container specification or appendix thereto. The gross weight of wood and wood-cleated boxes shall be not greater than 200 pounds (90.72 kg). When gross weight of the shipping container is greater than 100 pounds (45.36 kg), the container shall be provided with skids providing a clearance of not less than 2.5 inches (63.50 mm).

3.5.3. Level B.

3.5.3.1 Shipping container. Items preserved as specified in 3.4 shall be packed in shipping containers as specified in table IV for level B. The container selection shall be at the option of the contractor (see 6.3). For military agencies, the quantity per shipping container shall be as specified in the contract (see 6.2).

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3.5.4 Unitization. When shipments to Government depots are full car or truckload, the shipping containers shall be unitized for shipment and handling in accordance with normal commercial practice. The unitized load shall be not greater than 2,500 pounds (1 133.98 kg) in weight, 63 inches (1 600.20 mm) in height, 56 inches (1 422.40 mm) in length, and 45 inches (1 143.00 mm) in width.

3.5.5 Palletized and containerized unit loads. When specified (see 6.2), products packed as specified shall be palletized or containerized in accordance with MIL-HDBK-774.

3.5.6 Non-military packing (minimal). Items or packages that require packaging for acceptance by common carrier shall be packed in exterior type shipping containers in accordance with MIL-STD-2073-1.

3.6 Marking.

3.6.1 Civil agencies. In addition to any special marking specified in the contract (see 6.2), interior packages and shipping containers shall be marked in accordance with FED-STD-123 and shall include bar code marking when specified in the procurement.

3.6.2 Military agencies. In addition to any special marking specified in the contract (see 6.2), interior packages and shipping containers shall be marked in accordance with MIL-STD-129 and MIL-HDBK-129. The marking shall include bar code marking when specified in the procurement.

3.7 Workmanship. Items shall be protected against corrosion, deterioration, and damage during shipment and storage and shall require the minimum of processing for service.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract, 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 ensure that supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of section 3 and 5. The inspection set forth in this document shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in this document shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain

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conformance to requirements, however, this does not authorize submission of known defective material either indicated or actual, nor does it commit the Government to accept defective material.

4.1.2 Component and material inspection. Components and materials shall be inspected in accordance with all the requirements specified herein and in applicable referenced documents.

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

- a. First article inspection (see 4.2.1).
- b. Conformance inspection (see 4.2.2).

4.2.1 First article inspection. The first article inspection shall be performed on one complete shipping container, packaged and packed when first article is required (see 3.1 and 6.2). This inspection shall include the examination of 4.4 and the tests of 4.5. The first article may be either a first production item or a standard production item from the supplier's current inventory provided the item meets the requirements of the specification and is representative of the design, construction, and manufacturing technique applicable to the remaining items to be furnished under the contract.

4.2.2 Conformance inspection. The conformance inspection shall include the examination of 4.4, and tests of 4.5. This inspection shall consist of examining the preservation, packing, and marking in accordance with the classification of defects set forth in table V. Inspection shall be performed on the samples selected in accordance with 4.3.

4.3 Sampling. Sampling and inspection procedures shall be in accordance with ANSI-Z1.4. All complete shipping containers, packaged and packed fully prepared for shipment of the same type and size offered for delivery at one time shall be considered a lot for the purpose of inspection.

4.3.1 Sampling for examination. Guidance for inspection level is provided in 6.5.1.

4.3.2 Sampling for test. Guidance for inspection level is provided in 6.5.2.

4.4 Examination. Each complete packaged and packed item shall be examined for defects listed in table V. Each attribute within each classification of multiple defects shall constitute one defect.

4.5 Tests. Sample packaged and packed items shall be subjected to the applicable test specified in MIL-STD-2073-1 and other referenced subsidiary specifications.

4.5.1 Rough handling tests. When specified (see 6.2), the completed packages, packed for shipment, shall be subjected to rough handling tests specified in MIL-STD-2073-1 and MIL-STD-1186 as applicable.

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TABLE V. Classification of defects.

Categories	Defects
CRITICAL:	
1	Hydraulic units not sealed, evidence of leakage.
2	Warning marking not provided.
3	Electric tools not preserved as specified.
MAJOR:	
	<u>Preservation</u>
101	Level or levels not as specified.
102	Close tolerance operating surfaces not cleaned and preserved as specified.
103	Disassembly of tools not in accordance with manufacturer's recommendations.
104	Preservative not of type specified.
105	Greaseproof wrap not as specified.
106	Method of preservation not as specified.
107	Cushioning not provided as required.
108	Items in sets or kits, not secured in carrying case or container.
109	Items not arranged in a compact manner or are loose.
110	Containers do not conform to referenced specifications.
111	Closure of containers not as specified.
112	Gross weight of intermediate containers exceeds limit specified.
113	Tape or other materials do not conform to referenced specifications.
114	Quantity per unit or intermediate container not as specified.
	<u>Packing</u>
115	Level, not as specified.
116	Container contents not blocked, braced, and cushioned to prevent damage from handling, shipment and storage.
117	Intermediate fiber boxes (when authorized as level A or B shipping containers or unit containers for sets of tools packaged method 32 not closed as specified.
118	Containers nonconforming to applicable specification, damage.
119	Closure banding or strapping (level A or B) not as specified.
120	Steel strapping not as specified.
121	Caseliner when required, not as specified.
122	Gross weight of shipping container exceeds specified limits for service or agency for which intended.
123	Skids not provided or not as specified in applicable box specification.
124	Commercial packing does not conform to rules or regulations of applicable common carrier.

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TABLE V. Classification of defects - Continued.

Categories	Defects
125	Quantity per shipping container not as specified.
126	Marking not as specified.
MINOR:	
201	Plastic coating compound not as specified.
202	Scored packages for easy separation not furnished.

<u>Characteristic</u>	<u>Lot or batch size</u>	<u>Sample size</u>
CRITICAL	0 - 150	13
MAJOR	0 - 50	5
	51 - 90	7
	1 - 150	11
MINOR	0 - 25	3
	26 - 50	5
	51 - 90	6
	91 - 150	7

NOTE: If lot size is less than or equal to sample size, 100 percent inspection is required.

5. PACKAGING

5.1 This section is not applicable to this specification.

6. NOTES

(This section contains information of a general or explanatory nature which is helpful, but is not mandatory.)

6.1 Intended use. It is intended that this specification be used for reference in section 5 of applicable commodity specifications and for direct reference in contracts or orders. The cleaning, drying, preservation, packing and marking requirements specified herein are intended to ensure proper and safe storage and transportation of tools and accessories for direct shipment to Government activities, or for shipments processed at a military activity or by a civil agency.

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6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. When first article is required for inspection and approval (see 3.1 and 4.2.1).
- c. When preservative is to be other than grade 30 of MIL-L-21260 (see table I, note 10).
- d. Unit method of protection (see 3.4.2), package quantities (see 3.4.4), and containers (see 3.4.6), if different.
- e. Plastic coating if different than required (see 3.4.2.1).
- f. When VCI treated materials may be used; and whether preservation is other than specified (see 3.4.2.2).
- g. Type of preservative for hydraulic units (see 3.4.2.10).
- h. When fire-resistant cushioning and wrapping material is required (see 3.4.3).
- i. When intermediate packaging is required (see 3.4.7); is not required and quantities per package (see 3.4.7.1).
- j. When selection of applicable packing level is required (see 3.5).
- k. Level B gross weight, if different and quantity of level B packing for civil agencies (see 3.5.1.1.1).
- l. Weight limitations for Navy and Air Force, if different (see 3.5.1.1.3).
- m. Preservation for tools and accessories if other than as specified (see 3.5.2.1).
- n. When caseliners are required (3.5.2.2).
- o. Quantity per intermediate package and shipping container for military agencies (see 3.5.3.1).
- p. When palletization or containerization is required (see 3.5.5).
- q. Additional marking if required (see 3.6.1 and 3.6.2).
- r. Rough handling tests, when required (see 4.5.1).

6.3 Conditions for use of level B requirements. When level B is specified (see 3.4.2 and 3.5.3.1), this level of protection should be reserved for the packaging of items referenced herein for resupply worldwide under known favorable handling, transportation and storage conditions.

6.4 First article. When a first article inspection is required, the item will be tested and should be a first production item or it may be a standard production item from the contractor's current inventory as specified in 4.2.1. The first article should consist of one complete packaged and packed item. The contracting officer should include specific instructions in acquisition documents regarding arrangements for examination, test, and approval of the first article.

6.5 Sampling procedures.

6.5.1 Sampling for examination. Recommended inspection level is S-2 (see 4.3.1).

6.5.2 Sampling for tests. Recommended inspection level is S-2 (see 4.3.2).

6.6 Physical protection. L-P-378 and MIL-B-22191, type III are unacceptable for Navy use.

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6.7 Environmentally safe cleaning compound. The use of new or commercially available cleaning compounds which are environmentally safe (e.g. non-ozone depleting, etc.) is recommended. Offerors are encouraged to alert the procuring activity of any alternative cleaning compounds.

6.8 Subject term (key word) listing.

Container
Protection
Shipping
Storage
Transportation
Unit Pack

6.9 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to previous issue.

MILITARY INTERESTS:

Custodians:

Army - SM
Navy - YD1
Air Force - 69
DLA - CC

Review Activities:

Army - CR3, ET, MT, TM2
Navy - AS, CG, EC, NP, TD
Air Force - 13
DLA - DH, GS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing Activity:

Navy - YD1

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TABLE I. Preservation and packaging.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
ABRASIVE:				
Abrasive wheel dresser, diamond point	B, C, E	20	1	<u>3/</u>
ADAPTER:				
Base assembly	B, C, I	20	1	<u>5/</u>
Collet	B, E, I	30	1	
Mechanical puller:				
Sizes 1 thru 12	B, D	20	6	
Sizes 13 thru 17	B, D	20	1	
Ratchet attachment:	B, D	20	1	
Socket extension (Universal):				
Up to 1.25 lbs. (0.57 kg)	B, D	20	10	
1.25 lbs. (0.57 kg) up to 2.0 lbs. (0.91 kg)	B, D	20	5	
2.0 lbs (0.91 kg) and over	B, D	20	1	
Spindle end, milling machine	B, C, E	32	1	
ADJUSTING TOOL:				
Brake shoe (spoon type)	A, J	20	1	
Valve Tappet	A, J	20	1	
ADZ:				
With handle	A, J	20	-----	<u>1/</u>
Without handle	A, J	20	-----	<u>1/</u>
ALIGNMENT TOOL: (electronic)	-----	30	12	
ALIGNER, CONNECTING ROD	B, D	30	1	
ANGLE ATTACHMENT:				
Drill chuck	B, D	30	1	
Flexible	B, D	30	1	
Riveter	B, D	30	1	
ANVIL:				
Blacksmiths	A, J	20	-----	<u>1/</u>
Jewelers	B, D	20	1	
Sawmakers	A, J	20	1	
ARBOR: (various types)				
Up thru 10 lbs. (4.54 kg)	B, E, I	30	1	
Over 10 lbs. (4.54 kg)	B, D, I	32	1	
ATTACHMENT:				
Grinder (electric)	E	53, 52	1	<u>5/</u>
Grinder (nonelectric)	B, C, E	32	1	<u>5/ 13/</u>
Milling machine (electric)	E, F	53, 52	1	<u>5/</u>
Milling machine (nonelectric)	B, C, E	42	1	<u>5/</u>
Taper (lathe)	E	42	1	<u>5/ 14/</u>
AUGER:				
Flexible coil	A, J	20	1	
Post hole, hand	A, J	20	1	
Water closet	A, J	20	1	
Ship rings	A, J	20	-----	
AWL:				
Belt	B, D	20	12	<u>8/</u>
Bent point	B, D	20	12	<u>8/</u>
Brad	B, D	20	12	<u>8/</u>
Saddlers	B, D	20	12	<u>8/</u>
Scratch	B, D	20	12	<u>8/</u>
AX:	A, J	20	4	<u>8/</u>

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
BAR:				
Boring tool	B	20	1	<u>13/</u>
Bucking	A, J	20	-----	<u>1/ 2/</u>
Chisel	A, J	20	5	
Claw	A, J	20	-----	<u>1/ 2/</u>
Combination pry	A, J	20	-----	
Combination pry and scraper	A, J	20	-----	
Crow:				
Nonmagnetic	None	10	-----	<u>1/ 2/</u>
Steel	A, J	20	-----	<u>1/ 2/</u>
Digging	A, J	20	-----	<u>1/ 2/</u>
Driving, spotfacer	C, F	32	1	See 3.4.5
Extension:				
Up thru 1 lb. (0.45 kg)	B, D	20	10	
Over 1 lb. (0.45 kg)	B, D	20	5	
Pinch, drum upending	A, J	20	-----	<u>1/ 2/</u>
Ripping, scaling:				
Wrecking:				
Steel	A, J	20	-----	<u>1/ 2/</u>
Nonmagnetic	None	10	1	<u>1/ 2/</u>
BELLOWS, HAND	None	10	1	
BELT, ABRASIVE	None	32	1	
BENCH PLATE	A, J	20	1	
BENDER:				
Electrical conduit	B, D	20	1	
Pipe, hydraulic	A, J	20	1	See 3.4.2.10
Tube, hand, portable:				
External coil spring	A, J	20	12	
Lever actuated:				
Multiple size	B, D	20	1	
Single size	B, D	20	1	
Pinion gear actuated	B	20	1	
Worm gear actuated	B	20	1	
BEVEL:				
Carpenter, machinist	B, D	30	6	
Sliding tee	B, D	30	6	
BINDER, LOAD, LEVER TYPE	None	10	1	
BIT:				
Auger	A, J	20	6	<u>8/</u>
Expansive	B, D	20	1	<u>8/</u>
Extension	B, D	20	1	
Forester, plug	A, J	20	1	<u>8/</u>
Gimlet	A, J	20	10	<u>8/</u>
Screwdriver	A, J	20	50	
Woodworking:				
Up through 1-inch (25.40 mm)	B, D	20	6	<u>8/</u>
Over 1-inch (25.40 mm)	B, D	20	3	<u>8/</u>
BIT SET, CUTTER	B, E, I	32	1	See 3.4.5

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
BLADE:				
Band saw				
Thru 1-inch (25.40 mm) width	E, I	32	1	
Over 1-inch (25.40 mm) width	B	20	1	
Circular saw	A, B, J	20	1	<u>13/ 17/</u>
Dado head	A, B, J	20	1	
Grass Cutter	A, J	20	12	
Hacksaw:				
Hand	B	20	10	<u>8/</u>
Round and other	B	20	12	<u>8/</u>
Hole saw	A, B J	20	1	
Jig saw	E, I	20	12	
Saw, compass, coping, jewelers, keyhole	E	30	12*	<u>8/</u>
Saw, portable, pneumatic, opposed stroke	B, E	20	6	
Shears (jaw)	B, E	20	1	
Socket head screw key	B, E	20	12	
Weed cutter	A, J	20	12	
BLANK, TOOL	B, D	20	6	
BLOCK, STEP, MACHINIST (STEEL)	B	20	1	
Tool post	B	20	1	
BLOCK:				
Bench, machinist	E, G	30	1	<u>10/</u>
Dolly (body and fender)	A, J	20	1	
BLOW TORCH (BURNER)				
Alcohol	B, E, G	20	1	<u>10/</u>
Gasoline	B, E, G	20	1	<u>10/</u>
BORER, BUNG	A, J	20	1	
BORER, WOOD, PNEUMATIC BOX	None	30	1	See 3.4.2.3
BOX:				
Miter (metal)	B, E, G	30	1	<u>10/</u>
Miter (wood)	None	10	1	
Tool grinder	None	10	1	
Tool metal:				
Painted or plated	None	10	1	
Unpainted	A, J	20	1	
Tool, wood	None	10	1	
BRACE:				
Bit, corner ratchet	B, E, G	20	1	<u>4/ 10/</u>
Speeder	B, E, G	20	5	<u>4/ 10/</u>
BRANDING IRON:				
Electric	None	30	1	
Nonelectric	B, E	20	1	
BROACH:				
Cutting	B, E	20	12	
Jewelers	B, D	20	12	
Set, keyway	B, E, I	32	1	See 3.4.5

* Bundled in accordance with commercial practice.

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
BRUSH:				
Boiler tube, wire	E, G	30	6	<u>10/</u>
Fiber	None	30	1	
Furnace and flue	E, G	20	12	<u>10/</u>
Rotor cup	E, G	20	1	<u>10/</u>
Rotor wheel:				
Steel center	E, G	20	1	
Wood center	None	10	1	
Water molders	None	10	1	
Wire	None	10	12	
BURNER - SEE BLOW TORCH				
BURNISHER:				
Contact	-----	30	12	
Jewelers	-----	30	12	
Paper, hand	-----	30	12	
BUSH HOOK	A, J	20	1	<u>8/</u>
BUTTON, TOOLMAKER	B, C, E	20	1	
CABINET, SAW AND FILE	None	10		
CABINET, TOOL	None	10	1	
CALIPERS: (All types except micrometer and vernier)	B, D	20	1	
Balance wheel gear	F	30	1	
Micrometer (all types)	F	30	1	
Vernier (all types)	F	30	1	
CAULKING GUN	D	20	1	
CAULKING IRON, WOOD	B, D	20	6	
CAULKING TOOL, STEEL	B, D	20	6	
CAP, END, BORING BAR	B, E, I	20	1	<u>13/</u>
CAR MOVER, HAND	A, J	20	1	
CARRIER:				
Brick clamp	A, J	20	1	
Battery, storage	None	30	12	
Timber	A, J	20	-----	
Tool (cotton duck, plastic or leather)		30	5	
CASE:				
Twist drill (plastic)	None	30	1	
Twist drill (steel)	None	10	1	
CENTER LATHE	B, E, I	30	1	
CHALK LINE AND REEL	None	30	1	
CHASER, THREAD	B, D	30	1	
CHISEL:				
Blacksmiths	A, J	20	6	<u>8/</u>
Brick	A, J	20	4	<u>8/</u>
Bell point	A, J	20	1	<u>8/</u>
Butt, woodworking:				
Up thru 1-inch (25.40 mm)	D	30	6	<u>8/</u>
Over 1-inch (25.40 mm)	D	30	3	<u>8/</u>
Cold, hand, or hot forged:				
Up thru 5.75 x 0.50-inch (146.05 x 12.70 mm)	A, J	20	12	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
CHISEL: (continued)				
Cold, hand, or hot forged: (continued)				
Larger than 5.75 x 0.50-inch (146.05 x 12.70 mm)	A, J	20	6	
Lead picking	A, J	20	6	
Hollow, mortising	B, D	30	1	<u>8/</u>
Nonsparking	None	10	1	<u>8/</u>
Power hammer	A, J	20	6	
Rivet	A, J	20	6	
Tool blank	A, J	20	6	
Woodworking:				
Up thru 1-inch (25.40 mm)	A, J	20	6	<u>8/</u>
Over 1-inch (25.40 mm)	A, J	20	3	<u>8/</u>
CHUCKS:				
Centering lathe	B, E, I	32	1	
Collet	B, E, I	32	1	
Collet, tubeless	B, E, I	32	1	
Draw-in-lathe	B, E, I	32	1	
Drill	B, E, I	32	1	<u>13/</u>
Drill (with arbor and key)	B, E, I	32	1	<u>13/</u>
Grinding wheel	B, D	20	1	
Independent jaw	B, D	20	1	<u>13/</u>
Lathe, balance	E, I	32	1	
Lathe, collect	B, E, I	32	1	
Lathe, metal working	B, D	20	1	<u>13/</u>
Universal jaw	B, D	20	1	<u>13/</u>
CLAMP, ADJUSTABLE BAR	A, J	20	-----	<u>1/</u>
CLAMP, BRAKE LINING	B, D	20	1	
CLAMP, "C":				
Up thru 8 ounces (248.83 gram (g))	B, D	20	12	
Over 8 ounces (248.83) thru 5 pounds (2.27 kg)	B, D	20	6	
Over 5 pounds (2.27 kg)	A, J	20	1	
CLAMP, MATERIAL LIFTING	B, D	20	1	
CLAMP, PARALLEL, MACHINIST:				
SEE CLAMP "C"				
Machine strap	A, B, J	20	1	
Parallel, toolmakers (steel)	B, D	20	2	
Parallel, wood	None	10	-----	<u>1/</u>
Plate lifting	A, J	20	1	
Toggle	B, E	20	1	<u>3/</u>
CLAMP, WIRE SPLICING	B, D	20	1	
CLAMPING CYLINDER	B, C, E	32	1	<u>5/ 13/</u>
CLAMPING TOOL:				
Strap Band, Hose	A, J	20	1	
Wire Band, Hose	A, J	20	1	
CLAW, TACK	A, J	20	6	
CLEANER, VALVE STEM GUIDE	B, D	20	1	
CLINOMETER	B, D	30	1	
COLLAR SET, SPACING				
CIRCULAR SAW	A, B, J	20	1	See 3.4.5

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
COLLET:				
Machine	B, E, I	33	1	<u>13/</u>
Machine, flexible, rubber jaws	None	31	1	
Solid, taper hole	B, E, I	33	1	
Spring draw-in	B, E, I	33	1	
Spring force-in	B, E, I	33	1	
COLLET SET, MACHINE	B, E, I	32	1	See 3.4.5
COMPRESSOR, PISTON RING VALVE	E, G	33	1	<u>10/</u>
COMPRESSOR, PISTON RING, BAND TYPE	B, D	20	1	
COUNTERBORE, COUNTERSINK:				
Up thru 0.25-inch (6.35 mm)	B, D	20	12	
Over 0.25-inch (6.35 mm)	B, D	20	6	
COUNTERSINK AND DRILL	B, E, I	33	1	
CRIMPING TOOL, TERMINAL	B, D	20	1	
CROWFOOT, ATTACHMENT-SOCKET				
WRENCH				
Up thru 2 inches (50.80 mm)	A, J	20	6	
Over 2 inches (50.80)	A, J	20	3	
CRUISER STICK-FORESTER	None	10	1	
CUP, SUCTION, RUBBER	None	10	12	
CUTTER:				
Angle, steel, hand operated	A, J	20	1	
Asbestos shingle	A, J	20	-----	<u>1/</u>
Bolt, rivet and rod:				
Up thru 35 inches (889.0 mm)	A, J	20	1	
Over 35 inches (889.0 mm)	A, J	20	1	
Cable:				
Hand operated	A, J	20	1	
Hydraulic operated	H	20	1	See 3.4.2.10
Circle and hole	B, D	20	1	
Dovetail	B, E, I	32	1	
Fabric, electric				
Portable	None	50	1	See 3.4.2.9
Glass:				
Circle cutting	B, D	20	1	
Line cutting	B, D	20	12	
Grass (unassembled)	A, J	20	1	
Groove circular	B, E, I	32	1	<u>13/</u>
Hole	B, E	32	1	
Hole taper shank	B, E, I	32	1	
Hollow mill	B, E	32	1	
Inside dado heads	B	20	1	<u>13/ 17/</u>
Milling	B, E, I	33	1	
Pipe	B, D	20	1	
Strap, steel	B, D	20	1	
Tile	B, D	20	1	
Tubing	B, D	20	1	
Wire rope - see cable				
Weed and grass	A, J	20	-----	<u>1/</u>
Wooden plug	B, E, I	32	1	<u>13/</u>

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
CUTTER-BIT, TOOL HOLDER CUTTER BIT BLANKS: (SIZE IN INCHES (MM))				<u>16/</u>
0.38 (9.53) and under	B	20	12	
0.44 (11.11) thru 0.50 (12.70)	B	20	6	
0.63 (15.88) thru 0.75 (19.05)	B	20	2	
Over 0.75 (19.05)	B	20	1	
Straight cut off blades:				
0.09 (2.38) x 1.00 (25.40) and under	B	20	12	
0.13 x 0.50 (3.18 x 12.70 thru 0.19 x 0.69 (4.76 x 17.46)	B	20	6	
0.19 x 0.88 (4.76 x 22.23) thru 0.25 x 1.25 (6.35 x 31.75)	B	20	4	
CUTTER SET, MILLING	B, E, I	32	1	See 3.4.5
DIAMOND, EMERY WHEEL DRESSER	E, I	20	1	
DIE:				
Dimpling	A, J	20	6	
Metal punching machine	B, D	20	10	
Metal working, press brake	B, I	20	1	<u>5/ 13/</u>
Rethreading:				
Up thru 1.50 inches (38.10 mm)	B, D, F	30	6	
Over 1.50 inches (38.10 mm)	B, D, F	30	1	
Threading:				
Rectangular, adjustable	B, D, F	30	1	
Round, hexagonal, and square:				
No. 0 to 0.50-inch (12.70 mm)	B, D, F	30	6	
0.56-inch thru 1.00-inch (25.40 mm)	B, D, F	30	6	
Over 1.00-inch (25.40 mm)	B, D, F	30	1	
Solid square, pipe:				
Up thru 0.13-inch (3.18 mm)	B, D, F	30	6	
0.25-inch (6.35 mm) and over	B, D, F	30	1	
Washer, grommet, inserting	B, D	20	1	
DIE AND COLLET	A, J	20	1	
DIE STOCK:				
Round, split, rectangular dies:				
Size 1	A, J	20	6	
Size 2 and over	A, J	20	1	
Taper pipe dies:				
Adjustable:				
Geared style	B	20	1	
Ratchet, poster pin	A, J	20	1	
DIES, STAMPING (LETTER AND NUMBER)	A, J	20	1	
DIGGER, POSTHOLE, HINGED	A, J	20	2	<u>1/ 2/</u>
DISC, ABRASIVE	None	31	-----	
DIVIDERS, DRAFTING	None	30	1	
DIVIDERS, MECHANICS	B, D	20	1	<u>8/</u>
DOG, LATHE:				
Single screw	B, E, I	20	1	
Double screw	B, E, I	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
DRESSER:				
Abrasive wheel	B, C, E	20	1	
Emery wheel	B, C, E	20	1	
Radius	B, C, E	20	1	
DRIFT, DRILL	A, J	20	6	
DRIFTPIN	A, J	20	12	
DRILL:				
Blanks	B, D	20	12	
Blank sets	B, D	30	1	
Breast, hand, ratchet	B, E, G	30	1	<u>4/ 10/</u>
Electric, hand, portable:	B, E, G	30	1	
Dielectric housing (double insulated or all insulated)	-----	30	1	See 3.4.2.9
Metal cased	-----	30	1	See 3.4.2.9
Drill-hammer	-----	50	1	See 3.4.2.9
Drill-masonry, multiple bit:				
Rotary	B, D	20		
Drill, pneumatic, portable	-----	30	1	See 3.4.2.4
DRILL POST	A, J	20	-----	<u>1/</u>
DRILL, RATCHET, REVERSIBLE	B, D	20	1	
DRILL, STAR	A, J	20	1	
DRILL TWIST:				
Up thru 0.25-inch (6.35 mm)	B, E, F, G	30	12	<u>10/</u>
Over 0.25 (6.35) thru 1.00-inch (25.40 mm)	B, E, F, G	30	6	<u>10/</u>
Over 1.00-inch (25.40 mm)	B, E, F, G	30	3	<u>10/</u>
DRILL POINT	B, E, F, G	30	1	
DRILLING AND LOCATING FIXTURE	C	32	1	
DRIVE HEAD, SOCKET WRENCH	B, D	20	6	
DRIVER:				
Bearing and bushing up thru 2-inch (50.80 mm) boss dia.	B, D	20	6	
Over 2-inch (50.80 mm) thru 6-inch (152.40 mm) boss dia.	B, D	20	3	
Over 6-inch (152.40 mm)	B, D	20	1	
Glaziers diamond point socket wrench:	B, D	20	1	
0.375-inch (9.53 mm and 0.25-inch (6.35 mm)	B, D	20	12	
DRIVING MECHANISM				
ELECTRIC	E, F	53, 52	1	
EDGE FINDER DOUBLE END	C, E	32	1	<u>3/ 13/ 14/</u> See 3.4.5
EDGE TRIMMER	A, J	20	-----	
EDGER, CEMENT	A, J	20	6	
ELECTRODE, SHROUD	None	32	1	
ETCHER:				
Electric arc type	-----	30	1	See 3.4.2.9
Vibrator type	-----	50	1	See 3.4.2.9
EXPANDER:				
Coil thread insert	B, D	20	1	
Hose	B	20	1	
Piston ring	B	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
EXPANDER: (continued)				
Tube (roller)	B	20	1	
EXTENSION, SCREWDRIVER BIT	B, J	20	12	
EXTRACTOR:				
Cotter pin	B, D	20	12	
Electron tube	-----	30	12	
Screw thread insert (wire)	B, F, G	30	1	<u>10/</u>
Screw, stud, pipe, plug, bolt:				
0.06-inch (1.59 mm) thru 0.42-inch (10.72 mm) drill size	A, J	30	6	
0.52-inch (13.10 mm) and over	A, J	30	1	
Stuffing box, pump:				
0.25-inch (6.35 mm) thru 0.31-inch (7.94 mm) packing size	B	20	6	
0.38-inch (9.53 mm) and over	B	20	1	
Tap:				
0.25-inch (6.35 mm) thru 0.63-inch (15.88 mm)	B	20	6	
Over 0.63-inch (15.88 mm)	B	20	1	
FACE, HAMMER, INSERTED:				
1.00-inch (25.40 mm) diameter	None	10	12	
1.50-inch (38.10 mm) diameter	None	10	12	
2.00-inch (50.80 mm) diameter	None	10	12	
2.50-inch (63.50 mm) and 3.00-inch (76.20 mm)	None	10	2	
FACE PLATE, METALWORKING LATHE	B, D, I	20	1	<u>17/</u>
FID:				
Finger, retriever, magnetic	None	10	1	
Hand, metal	A, J	20	6	
Hand, wood	None	10	12	
Standing, metal	A, J	20	4	
Standing, wood	None	10	-----	
FILE:				
American and Swiss pattern				
Up thru 10 inches (254.00 mm)	F, G	30	12	<u>10/</u>
Over 10 inches (254.00 mm)	F, G	30	6	<u>10/</u>
Band	E, I	32	1	
Rotary	E, I	33	1	
FILE GUIDE	B, C	32	1	<u>3/</u>
FILE SET, MACHINE	E, I	32	1	See 3.4.5
FILER, PISTON RING	F, G	20	1	<u>10/</u>
FINDER, MAGNETIC	None	20	1	
FILLER, HYDRAULIC BRAKE	None	10	1	
FINGER, MECHANICAL	B	20	1	
FIRE POT, TINNERS - GASOLINE	B	20	1	
FISHING TOOL	J	20	10	
FIXTURE:				
Drill	E	32	1	
Lathe, metal	B, E	42	1	See 3.4.5
FLARING TOOL	A, J	20	1	
FLATTER, BLACKSMITHS	A, J	20	4	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
FLOAT, MORTAR, CONCRETE	None	10	3	See Rest
FOLLOW REST, LATHE				
FORCE CUP	None	10	12	
FORK:				
Hay	A, J	20	-----	<u>8/</u>
Manure	A, J	20	-----	<u>8/</u>
Mill	A, J	20	-----	<u>8/</u>
Spading	A, J	20	-----	<u>8/</u>
Stone	A, J	20	-----	<u>8/</u>
FRAME:				
Butcher saw	B, D	20	2	
Coping saw	B, D	20	6	
Hack and jewelers	B	20	1	
FULLER, BLACKSMITHS	A, J	20	-----	<u>1/</u>
FULLER, POWER HAMMER	A, J	20	6	
FUNNEL:				
Up thru 8 ounces (248.83 g)	B	20	12	
Over 8 ounces (248.83 g)	B	20	1	
GAGE:				
Angle	E, G	30	1	<u>10/</u>
Brake shoe	B, D	20	1	
Butt	E, G	20	1	<u>10/</u>
Center	B, D	30	1	
Climbers	B	20	1	
Compression	B, D	30	1	
Cylinder	B, D	30	1	
Depth:				
Dial indicating	B, D	30	1	
Micrometer	F	30	1	
Steel rule	E, G	30	1	<u>10/</u>
Vernier	F	30	1	
Draw saddlers	B, D	20	6	
Drill point:	E, G	30	1	<u>10/</u>
Individual blades	F	30	1	
Metal case	F	30	6	
Gap setting	E, G	20	6	<u>10/</u>
Height vernier	F	30	1	
Indicating, internal	B, D	30	1	
Marking and mortise	E, G	30	1	<u>10/</u>
Marking	E, G	30	1	<u>10/</u>
Milling cutter, clearance	E, G	30	1	<u>10/</u>
Planner	E, G	30	1	<u>10/</u>
Plug, micrometer	E, G	30	1	<u>10/</u>
Screw and wire	B, D	20	1	
Screw, pitch	F	30	6	
Sheet and plate	B, D	20	1	
Small hole	F	30	1	
Surface, universal	E, G	30	1	<u>10/</u>
Taper, wire thickness	E, G	30	6	<u>10/</u>
Telescoping	F	30	1	
Thickness	E, G	30	1	<u>10/</u>

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
GAGE: (continued)				
Thread, cutting tool	E, G	30	6	<u>10/</u>
Thread, setting tool	E, G	30	6	<u>10/</u>
Track, railway	A, J	20	-----	<u>1/</u>
Twist drill and rod	B, D	20	4	
Twist drill and tap	B, D	20	4	
Vernier	F	30	1	
Wheel alignment	B, D	20	1	
Wire	B, D	20	4	
GEAR, LATHE, METRIC TRANSPOSING	B, C, I	33	1	<u>13/</u>
GIMLET	B, D	20	12	
GRINDING ATTACHMENT, DRILL				(nonelec) see attachment
GRINDING MACHINE, TOOL ATTACHMENT				(electric) see attachment
GUIDE, DRILL-SCREW GUIDE	B, D	20	12	
GOUGE, PARING, WOOD TURNING, WOOD CARVING	B, D	20	6	<u>8/</u>
GRINDER:				
Bench, hand	E, G	30	1	<u>10/</u>
Electric, portable	-----	30	1	See 3.4.2.9
Pneumatic, portable	None	30	1	See 3.4.2.4
Valve	B, D	20	1	
GRIPS, CABLE AND PLATE:				
Edge, sheet metal	B	20	1	
Eccentric jaw	None	10	1	
Forceps, sheet metal	B	20	1	
Parallel (bronze lined) jaw	None	10	1	
Parallel (smooth steel) jaw	None	10	1	
Parallel (saw-tooth) jaw	None	10	1	
Woven (cable), closed type, single weave	E, F	20	1	
Nonmagnetic, double or single weave	None	10	1	
GROOVER:				
Concrete	A, J	20	6	
Sheet metal, hand	A, J	20	-----	<u>1/</u>
GUN:				
Caulking	B, D	20	1	
Lubricating, pressure	B, D	20	1	
HAFT, SADDLER AWL	None	10	1	
HAMMER (POWERED):				
Electric, portable	-----	50	1	See 3.4.2.9
Pneumatic, portable	-----	30	1	See 3.4.2.4
Rivet, pneumatic hammer, hand (except steel)				
3 pounds (1.36 kg) and under	None	10	6	See 3.4.2.4
Over 3 pounds (1.36 kg)	None	10	3	
HAMMER, STEEL, ALL TYPES:				
Up thru 4 pounds (1.81 kg)	A, J	20	6	
Over 4 pounds (1.81 kg)	A, J	20	-----	<u>1/</u>
HANDLE:				
Hammer, babbitt	A, J	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
HANDLE: (continued)				
File:				
Metal	A, J	20	1	
Wood	None	10	12	
Metal, ferrous	A, J	20	1	
Metal, non-ferrous	None	10	1	
Plastic, all types	None	10	12	
Screw driver	None	10	1	
Socket wrench:				
Fixed offset	None	10	6	
Hinged, (steel)	B, D	20	1	
Non-magnetic	None	10	1	
Ratchet and sliding "T"	B, D	20	1	
Speeder, brace type	B, D	20	1	
Speeder, spin type	None	10	1	
Timber carrier	None	10	1	
Wood:				
Mattock, pick, shovel and sledge hammer	None	10	-----	<u>1/ 2/</u>
Chisel, hatchet, hammer and other small handles	None	10	12	
Wrench, extensions	B	20	1	
HARDY, BLACKSMITHS	A, J	20	4	
HATCHET, HANDLED	A, J	20	6	<u>8/</u>
HAWK, PLASTERERS	A, J	20	3	
HOE, ALL TYPES	A, J	20	-----	<u>1/ 2/</u>
HOIST, CHAIN	A, J	20	1	
HOLDER:				
Bit (screwdriver)	B, D	20	6	
Counterbore	B, C, E	32	1	
Countersink	B, C, E	32	1	
Cutting tool	B, C, E	32	1	<u>13/</u>
Drill	B, C, E	20	1	<u>5/</u>
Drill, masonry	B, D	20	1	
End mill	B, D	32	1	
Face, inserted, hammer - see hammer, hand, etc.				
Lathe turning tool	B, C, E	32	1	<u>13/</u>
Sheet metal, hole and edge grip	None	10	12	
Threading and tapping tool	B, G	32	1	<u>13/</u>
				See 3.4.5
HOLDING FIXTURE, COLLET CHUCKING MACHINE	B, C, E	32	1	<u>13/</u>
HOOK:				
Brush, sail, bench swivel	A, J	20	-----	<u>1/</u>
Cant	A, J	20	2	
Chain, hand	A, J	20	1	
Hand carrying, steel sheet	A, J	20	6	
Material handling	A, J	20	6	
Meat handling	None	10	1	
HOOKAROON	A, J	20	6	
ICE SCRAPER AND CHIPPER	A, J	20	6	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
IGNITER, FRICTION	None	30	1	<u>12/</u>
INCLINOMETER	B, D	30	1	
INDEXING FIXTURE	B, C, E	42	1	<u>13/</u>
INDICATOR, DIAL, SPEED SCALE AND TWIST	F	30	1	
INFLATOR-GATE PNEUMATIC TIRE:				
Metal	B, D	20	1	
Metal, nonmetal combination	None	10	1	
INSERTER:				
Boot, hook	A, J	20	1	
Caulking	B, D	20	6	
Creasing	A, J	20	6	
Iron	E	30	1	
Thread	A, J	20	1	
Sealing	None	30	1	
Tire	A, J	20	6	
Wire thread	E	30	1	
JACK:				
Bracing	B, D	20	1	
Bumper	A, J	20	1	
Hydraulic	H	20	1	See 3.4.2.10
Mechanical, all types	A, J	20	1	
Planer	B, D	20	1	
Push-pull	A, J	20	1	
Rack, bar type	B, D	20	1	
Reel, hand	A, J	20	-----	
Scissors type	A, J	20	-----	
Screw type	A, J	20	1	
Jack kit:				
Hydraulic	H	20	1	See 3.4.2.10
Mechanical	A, J	20	1	
Vertical	B, D	20	1	
JAWS, BOLT CUTTER	B, D	20	6	
JAWS, SHRINKING	B, C, E	20	1	<u>13/</u>
JEWEL PUSHER	-----	30	1	
JIG:				
Drill	D	32	1	
Drill, front camshaft bearing	I	32	1	
Drill, front counterweight	I	32	1	
Drill, rear camshaft bearing	I	32	1	
JIG, HOLDING DEVICES:				
Fuel pump, carburetor and distributor	A, J	20	1	
JOINTER, BRICK	A, J	20	12	
JOINTS, UNIVERSAL SOCKET WRENCH ETC.	B, D	20	10	
KETTLE, MELTING:				
Iron, steel	A, J	20	1	
Brass and nonferrous	None	10	1	
KEY, COWL FASTENER	A, J	20	12	
KEY, DRILL CHUCK	A, B, J	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
KEY, SOCKET HEAD SCREW				
Non-magnetic (length):				
1.75-inch (44.45 mm) thru	None	10	100	
2.88 inches (73.03 mm)				
Over 2.88 inches (73.15 mm) thru	None	10	50	
4.13 inches (104.78 mm)				
Over 4.13 inches (104.78 mm)	None	10	25	
Screwdriver type handles	A, J	20	24	
Steel:				
1.38 inches (35.05 mm) thru	A, J	20	100	
2.75 inches (69.85 mm)				
Over 2.75 inches (69.85 mm) thru	A, J	20	50	
3.75 inches (95.25 mm)				
Over 3.75 inches (95.25)	A, J	20	25	
KIT, TUBE-CUTTER, FLARING AND BENDING	None	30	1	
KIT, REPAIR, TOOL	-----	-----	-----	MIL-S-196
KIT, SHOP SETS AND TOOL SETS	-----	-----	-----	MIL-S-196
KNIFE:				
Banana	A, J	20	1	
Craftsman lead chipping, divers (with sheath)	B, D	20	1	
Craftsman rubber cutting	A, J	20	1	
Glazier, plumbers, putty	A, J	20	1	
Divers (blade only)	B, D	20	1	
Draw:				
Fixed handles	B, D	20	4	
Folding handles	B, D	20	1	
Fixed blade	B, D	20	1	
Folding (pen and other)	E, G	20	1	
Jewelers, musical, scraping, saddlers, shoe, stencil, cutting, linoleum and those not otherwise listed	B, D	20	1	
Pocket	E, G	20	1	
KNURL, MACHINE	B, E, I	33	1	
KNURLING TOOL	B, E, I	32	1	
LADLE:				
Deck, seam filling	A, J	20	1	
Melting, hand	A, J	20	6	
Lead joint runner	A, J	20	1	
LAPPER, VALVE	E, G	20	1	10/
LEVEL, LEVEL AND PLUMB:				
Bench, cross test	None	30	1	
Bench (level)	E, G	30	1	10/
Bench, precision (level and plumb)	E, G	30	1	
Bench, striding	E, G	30	1	10/
Carpenter's and mason's:				
Metal frame	E, G	20	1	10/
Wood frame	None	10	1	
Cylindrical, circular vial	None	30	1	
Engineer's and plumber's	E, G	30	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
LEVEL, LEVEL AND PLUMB: (continued)				
Line, pocket	E, G	20	6	<u>10/</u>
Midget, pocket	None	10	6	
Precision	C	20	1	
Railway track	E, G	20	1	<u>10/</u>
Torpedo	None	10	1	
LIFTER, FOUNDRY, MOLDERS	A, J	20	1	
LIFTER, VALVE SPRING	B, D	20	1	
LIQUID MIXING ATTACHMENT PORTABLE DRILL	A, J	20	1	
LUBRICATOR, BEARING	D	20	1	
MACHETE, RIGID HANDLE	A, J	20	6	<u>8/</u>
MACHINE, BELT LACING	B, D	20	1	
MALLET, ALL TYPES	None	10	6	
MANDREL:				
Up thru 10 pounds (4.54 kg)	B, E, I	33	1	<u>13/</u>
Over 10 pounds (4.54 kg) thru 20 pounds (9.07 kg)	B, E, I	32	1	
Over 20 pounds (9.07 kg)	B	20	1	
MANDREL AND BLOCK SET	B, E, I	32	1	See 3.4.5
MANDREL (BLACKSMITHS)	B, D	20	1	
MANDREL SET:				
Expansion	B, E, I	32	1	See 3.4.5
Machine, solid	B, E, I	32	1	See 3.4.5
MARLIN SPIKE:				
Ferrous	A, J	20	6	
Nonferrous	None	10	6	
MATTOCK (ALL TYPES)	A, J	20	-----	<u>1/</u>
MAUL:				
Railway, ships, wood (reinforced head)	A, J	20	-----	<u>1/</u>
Wood and nonferrous	None	10	-----	<u>1/</u>
MEASURING MACHINE, CLOTH	None	30	1	
MILLING ATTACHMENT VERTICAL				(nonelectric) See attachment
MILLING-GRINDING DRILLING-SLOTTING ATTACHMENT				See OO-M-340
MIRROR, INSPECTION INCLUDING DENTAL	B, D	20	1	
MITER BOX				See Box, miter
MIXER, PAINT	B, D	20	1	
MOVER, RAILWAY CAR	A, J	20	-----	<u>1/</u>
MOWER, LAWN ALL TYES	A, J	20		<u>1/</u>
NAIL SET	A, J	20	12	
NEEDLE:				
Awl, sailmakers	B, D	30	6	
Lacing	E, G	30	1	<u>10/</u>
NIB, DIAMOND WHEEL DRESSING	E, I	20	12	
NIBBLER:				
Electric, portable	-----	50	1	See 3.4.2.9
Pneumatic, portable	-----	30	1	See 3.4.2.4
NIPPERS, END CUTTING:				
Up thru 6.0 inches (152.40 mm)	B, D	20	6	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
NIPPERS, END CUTTING: (continued)				
Over 6.0 inches (152.40 mm)	B, D	20	1	
NUT RUNNER AND SCREWDRIVER:				
Electric, portable	-----	50	1	See 3.4.2.9
Pneumatic, portable	None	30	1	See 3.4.2.4
OILER:				
Airline	G	20	1	<u>10/</u>
Hand	B, D	20	1	
OPENER:				
Carton	A, J	20	1	
Crate	A, J	20	6	
Door (claw bar type)	A, J	20	-----	
OPTICAL FLATS	None	52	1	
PACKING STICK, GLAND				See stick, packing MIL-STD-2073-1
PAD, SANDING				<u>1/</u>
PAIL, PITCH POURING	A, J	20	-----	
PALM, SEWING	None	10	1	
PAN, DRIP, CABLE SPLICES	A, J	20	-----	<u>1/</u>
PARALLELS				See Clamps
PEAVY	A, J	20	-----	<u>1/</u>
PICK:				
Body and fender	A, J	20	6	
Digging	A, J	20	-----	<u>1/</u>
Segment (type cleaner)	B, D	20	6	
PICKAROON	A, J	20	6	
PIKE, POLE	A, J	20	-----	<u>1/</u>
PILOT, COUNTERBORE:				
Thru 0.5-inch (12.70 mm)	B, E, I	33	4	
Over 0.5-inch (12.70 mm)	B, E, I	32	1	
PILOT, COUNTERSINK DRESSER:				
Thru 0.5-inch (12.70 mm)	B, E, I	33	1	
Over 0.5-inch (12.70 mm)	B, E, I	32	1	
PILOT, COUNTERSINK, VALVE				
REFACING, REAMER	P7, P10	30	12	<u>10/</u>
PIN STRAIGHTENER, ELECTRON TUBE	-----	30	12	
PINCERS, CARPENTERS AND FERRIERS	B, D	20	6	
PLANE, CARPENTERS (ALL TYPES)	E, G	30	1	<u>10/</u>
PLANE, ELECTRIC	-----	50	1	See 3.4.2.9
PLATE, ANGLE, SOLID	None	32	1	
PLATE, BENCH, STAKEHOLDING	A, J	20	1	
PLATE, LAPPING:				
Rectangular				See A-A-51141
Round	B, C, I	32	1	<u>5/</u>
PLIERS:				
Up thru 8.0 inches (203.20 mm)	B, D	20	6	Slip joint
Over 8.0 inches (203.20 mm)	A, J	20	1	pliers may be
Brake repair	B, D	20	1	preserved
Hog ring style	B, D	20	1	with type P1
Locking type (all sizes)	A, J	20	1	or P19

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
PLIERS (continued)				
Retaining ring	B, D	20	1	
Stud assembly:				
Cross pin type	E, G	30	1	<u>10/</u>
Spring loaded type	B, D	20	1	
Wire twister	B, D	20	1	
PLUG, COLLET, RUBBER	None	10	1	
PLUG, RADIATOR TEST	None	10	1	
PLUMB BOB:				
Up thru 8 ounces (248.88 g)	None	10	6	<u>8/</u>
Over 8 ounces (248.88 g)	None	10	1	<u>8/</u>
PNEUMATIC TOOLS (NOT OTHERWISE LISTED:	-----	30	1	See 3.4.2.4
Tool accessories (not otherwise listed):				
Metal	A, J	20	12	
Nonmetallic	None	10	12	
POINT, BULL	A, J	20	6	
POKER	A, J	20	6	
POLISHER, PORTABLE:				
Electric	-----	50	1	See 3.4.2.9
Pneumatic	-----	30	1	See 3.4.2.4
POST, DRILLING (OLD MAN)	A, J	20	1	
POT:				
Glue (electric)	-----	30	1	
Melting	A, J	20	1	
Solder (electric)	-----	30	1	
Wax (electric)	-----	30	1	
POUCH, TOOL	-----	50	1	
PREPARING TOOL, ROTARY SHAFT	B, C, E	32	1	
PRESS:				
Grommet and eyelet	A, J	30	1	
Lead seal	B, D	20	1	
PRESS HANDLE	A, J	30	1	
PRICKER, SAILMAKERS	B, D	20	12	<u>8/</u>
PROTRACTOR, BASE CORE BOX (BRASS)	None	10	1	
PROTRACTOR, MECHANICS, BEVEL	E, G	20	1	<u>10/</u>
PRUNER	A, J	20	1	
PULLER:				
Bushing and bearing	A, J	20	1	
Fuse	None	30	6	
Gear and bushing	A, J	20	1	
Nail:				
Hand	A, J	20	1	
Pneumatic	-----	30	1	See 3.4.2.4
Railway spike	A, J	20	1	
PULLER: ATTACHMENTS, ADAPTERS AND OTHER PULLER, MECHANICAL PARTS	A, J	20	1 or 1 set	
PULLER AND TESTLIGHT, FUSE PUNCH	None	30	1	
Aligning	A, F	20	6	
Arc	A, J	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
PULLER AND TESTLIGHT, FUSE PUNCH (continued)				
Backing out:				
Ferrous	A, J	10	1	
Nonferrous	None	10	1	
Blacksmiths	A, J	20	4	
Center:				
Automatic	B, D	30	1	
Solid:	B, D	20	12	
Less than 5.0-inch (127.0 mm)	A, J	20	12	
5.0-inch (127.0 mm) and over	A, J	20	6	
Coppers	A, J	20	12	
Cutting:				
Bag, single or double bow tinnerns, prick	A, J	20	1	
Knock out	B, D	20	1	
Revolving head, leather	B, D	20	1	
Dimpling	A, J	20	6	
Drive:				
Ferrous	A, J	20	6	
Nonferrous	None	10	6	
Drive pin	A, J	20	12	
Hollow (diameter):				
0.5-inch (12.70 mm) and smaller	A, J	20	12	
0.56-inch (14.29 mm) thru	A, J	20	6	
1.63 inches (41.28 mm)				
1.75-inch (44.45 mm) thru	A, J	20	3	
3.0 inches (76.20 mm)				
3.25-inch (82.55 mm) thru	A, J	20	1	
4 inches (101.60)				
Jewelers	B, D	20	6	
Paper	B, D	20	1	
PUNCH AND DIE:				
Grommet inserting	B, D	20	1	
Knock out	B, D	20	1	
Metal cutting, head	B, D	20	1	
PUNCH, METAL PUNCHING MACHINE	B, D	20	10	
RAKE:				
Assembled:				
Asphalt	A, J	20		<u>1/ 2/</u>
Other	A, J	20		<u>1/ 2/</u>
Unassembled:				
Leaf (full radial):				
Handles	None	10		<u>1/</u>
Heads	None	10		<u>1/</u>
Lawn comb (semi-radial):				
Handles	None	10		<u>1/</u>
Heads	None	10		<u>1/</u>
RAMMER, SAND RASP: (HAND)				
12.0-inch (304.80 mm) length and less	F, G	20	6	<u>10/</u>
Over 12.0-inch (304.80 mm) length	F, G	20	1	<u>10/</u>

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
REAMER:				
Adjustable (hand):				
Up thru 0.25-inch (6.35 mm)	F, G	30	12	<u>10/ 11/</u>
0.27-inch (6.75 mm) thru	F, G	30	6	<u>10/ 11/</u>
0.5-inch (12.70 mm)				
Over 0.5-inch (12.70 mm)	F, G	30	1	<u>10/ 11/</u>
Expansion (hand)	F, G	30	1	<u>10/ 11/</u>
Hand, nonadjustable:				
Thru 0.25-inch (6.35 mm) diameter	F, G	30	12	<u>10/ 11/</u>
0.27-inch (6.75 mm) thru	F, G	30	6	<u>10/ 11/</u>
0.5-inch (12.70 mm)				
Over 0.5-inch (12.70 mm)	F, G	30	1	<u>10/ 11/</u>
Machine set - same as hand				
Pipe, burring	B, D, F	20	1	<u>11/</u>
Pipe, taper:				
0.13-inch (3.18 mm) thru	B, D, F	30	12	<u>11/</u>
0.50-inch (12.70 mm)				
Over 0.50-inch (12.70 mm)	B, D, F	30	1	<u>11/</u>
Taper socket:				
Sizes 0 to 1 ASA	B, D, F	30	6	<u>11/</u>
Sizes 2 thru 6 ASA	B, D, F	30	1	<u>11/</u>
REMOVER:				
Clock hand	B, D	30	1	
Oil filter	None	10	1	
Tie rod	A, F	20	5	
REPAIR TOOL, PNEUMATIC TIRE VALVE	B, D	30	25	
REPLACER, VALVE SEAT	A, J	20	1	
REST:				
Follower	B, E	32	1	
Steady	B, E	32	1	
Tool rest, wood-working lathe	A, B, J	20	1	
RIVET SET, HAND				
Sizes 00 thru 2	A, F	20	2	
Sizes 3 thru 8	A, F	20	6	
RIVETER, BLIND	A, F	20	1	
ROD, END MEASURING	B	20	1 or 1 set	
ROLLER (RUBBER ROLLER)	None	10	1	
ROTARY TABLE	B	42	1	<u>5/ 18/</u>
ROTARY TOOL KIT:				
Electric	-----	50	1 set	<u>6/</u> see 3.4.2.9
Pneumatic	-----	30	1 set	<u>6/</u> see 3.4.2.4
ROUTER:				
Electric	-----	50	1	<u>5/</u> see 3.4.2.9
Pneumatic	-----	30	1	See 3.4.2.4
RULE:				
Aluminum, folding	None	10	3	
Blacksmiths	F	20	6	
Caliper	F	20	1	
Circumference	F	20	1	
Carpenter, folding	None	30	6	
Glaziers	F	30	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
RULE: (continued)				
Steel, not otherwise listed	F	20	6	
Wood, not otherwise listed	None	30	6	
RULER, WOOD AND PLASTIC	None	30	6	
SANDER (PORTABLE):				
Electric	-----	50	1	See 3.4.2.9
Pneumatic	None	30	1	See 3.4.2.4
SAW:				
Back, bow cable, compass, jewelers and metal cutting	A, J	20	1	8/
Chain (only)	G	20	1	10/
Chain, (complete)	-----	50	1	See 3.4.2.9
Electric	-----	50	1	See 3.4.2.9
Pneumatic	-----	30	1	See 3.4.2.4
Circular portable:				
Electric	-----	50	1	See 3.4.2.9
Pneumatic	-----	30	1	See 3.4.2.4
Crosscut (1 and 2 man)	A, J	20	1	8/
Hand (crosscut, docking, dovetail, miter box)	A, J	20	2	8/
Hole and arbor	B, D	20	1	
Keyhole	A, F	20	4	8/
Nested	B	20	1	8/
Stainless (hand)	None	10	1	8/
SAW ATTACHMENT (POWER TOOL)	E	20	1	
SAW, HOLE				See Blade, hole saw
SAW SET, HOLE	B, E	32	1	See 3.4.5
SAW SET (TOOTH ALIGNMENT)	B, D	20	1	
SCALERS (NEEDLE AND OTHER):				
Electric	None	50	1	See 3.4.2.9
Pneumatic	-----	30	1	See 3.4.2.4
SCISSORS, ELECTRICIANS	B	20	6	
SCOOP	A, J	20	6	
SCRAPER:				
Bearing	A, J	20	6	
Carbon	A, J	20	12	
Commutator	B, D	20	1	
Floor	A, J	20	6	
Nonsparking and nonmagnetic	None	10	1	
Paint, electric	None	30	1	
Razor blade	B, D	20	12	
Shave hook	A, J	20	1	
Ship:				
Deck	A, J	20	12	
Metal, hull	A, J	20	12	
Wood and glass	B, D	20	6	
SCREW PLATE AND TAP KIT	B, D, F	20	1 set	
SCREW STARTER	A, F	20	6	
SCREW DRIVER:				
Cabinet, clutch tip, cross tip, Phillips Reed-Prince	A, J	20	6	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
SCREW DRIVER: (continued)				
Flat tip (except pocket style)	A, J	20	6	
Flat tip, pocket style	A, J	20	6	
Jewelers	B, D	20	6	
Offset	A, J	20	12	
Ratchet, (spiral)	B, D	20	1	
Spanner, spark testing, type writer	B, D	20	12	
Torque indicating	B, D	20	1	
SCRIBER	B, D	20	6	
SEAMER, SHEET METAL HAND	A, J	20	2	
SET:				
Auger (bit)	A, J	20	1 set	
Bender, tube	A, J	20	1 set	
Broach, jewelers	B, D	20	1 set	
Countersink and drill	B, D	20	1 set	
Cutter, abrasive wheel dresser	B, D	20	1 set	
Die:				
Metal stamping:				
Figure set	A, J	20	6 sets	
Letter set	A, J	20	6 sets	
Re-threading	B, D, F	20	1 set	
Threading	B, D, F	20	1 set	
Drill blank and twist	B, E, F, G	30	1 set	10/
Extractor, screw and pipe	A, J	20	1 set	
File, hand	F, G	30	1 set	10/
Gage, internal measuring	D	30	1 set	
Key, socket head screw	A, J	20	1 set	
Nail	A, J	20	1 set	
Punch	A, J	20	1 set	
Reamer	F, G	30	1 set	8/ 10/
Riffler	F, G	30	1 set	10/
Rivet, head	A, J	20	1 set	
Rivet, pneumatic	A, J	20	1 set	
Saw, jewelers	B, D	20	1 set	
Screwdriver (except torque)	A, J	20	1 set	
Screwdriver, torque	B, D	20	1 set	
Screw plate	B, D, F	20	1 set	
Shear:				
Bench	B, D	20	1 set	
Electric, portable	-----	30	1 set	See 3.4.2.9
Pneumatic, portable	-----	30	-----	See 3.4.2.4
Pruning, hand	A, J	20	1 set	
Slitting	A	20	6 sets	
Tailor	B, D	20	6 sets	
Trimmer	B, D	20	1 set	
Utility and shears not otherwise listed	E, G	20	6 sets	10/
Tap, thread cutting	A, F	20	1 set	
Tube bender, hand	A, J	20	1 set	
Winder, mainspring, jewelers	F	30	1 set	
Wire brush, boiler tube	A, J	30	1 set	
Wrench (see individual listing)				

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
SHAFTS:				
Drive, universal joint	B, C, E	20	1	<u>5</u> /
Extension drive	B, C, E	20	1	<u>5</u> /
SHEARS:				
Bench, compound lever	A, J	20	1	
Double cutting	A, J	20	1	
General purpose:				
Bent trimmers	B, D	20	6	
Straight trimmers	B, D	20	6	
Tailors (sailmakers)	B, D	20	1	
Grass cutting	A, J	20	1	
Hedge trimming:				
Electric	-----	50	1	See 3.4.2.9
Nonelectric	A, J	20	1	
Jewelers	B, D	20	6	
Metal cutting:				
Electric	-----	50	1	See 3.4.2.9
Hand	B, D	20	1	
Pneumatic	-----	30	1	See 3.4.2.4
Pruning	A, J	20	6	
SHEATH	None	30	1	
SHIELD, EYE, MAGNETIC GRIP	None	10	1	
SHOVEL (EXCEPT FIRE)	A, J	20	-----	<u>1</u> / <u>2</u> /
SHOVEL, FIRE	A, J	20	12	
SLEDGE	A, J	20	-----	<u>1</u> /
SLEEVE, MANDREL	A, D	30	1	
SLEEVE, TRUING	B, E, I	20	1	
SLICK	B	20	6	
SLOTING TOOL, COMMUTATOR	B, D	20	12	
SNIPS, (TIN, METAL AND ETC.)				See Shear
SOCKET, ALL TYPES				See Wrench
SOCKET, TAPER SHANK TOOL	A, B, J	20	1	
SOLDERING IRONS OR GUNS				MIL-STD-2073-1
SPACER, MILLING ARBOR:				
Thru 0.75-inch (19.05 mm) thick	A, B, J	20	4	
Over 0.75-inch (19.05 mm) thick	A, B, J	20	1	
SPADE	A, F	20	-----	<u>1</u> / <u>2</u> /
SPATULA (STEEL BLADE)	B, D	20	1	
SPOKE SHAVE	B	20	1	
SPOON:				
Body and fender, molders	A, J	20	6	
Foundry	A, J	20	6	
Telegraph	A, J	20	-----	<u>1</u> / <u>2</u> /
SPREADER, TIRE, HYDRAULIC	-----	20	1	See 3.4.2.10
SQUARE:				
Carpenters	A, J	20	1	
Combination	B, D	20	1	
Diemakers	B, D	20	1	
Framing or rafter	A, J	20	1	
Machinist	B, D	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
SQUARE: (continued)				
Metal, solid	A, J	30	1	
Metal, try	B, D	20	1	
STAKE, SHEET METAL WORKING	A, J	20	1	
STAND:				
Abrasive wheel dresser	B, E	32	1	
Portable electric drill	A, J	20	1	
Twist drill	A, J	20	1	
STEADY REST, LATHE				See Rest
STEP PLATE, MECHANICAL PULLER	A, J	20	6	
STICK, PACKING GLAND	None	10	-----	<u>1</u> /
STONE:				
Abrasive				MIL-STD-2073-1
Cylinder hone				MIL-STD-2073-1
Electrical contact				MIL-STD-2073-1
Sharpening and stones not otherwise listed				MIL-STD-2073-1
Finish grinding				MIL-STD-2073-1
Rough grinding				MIL-STD-2073-1
STONE AND HOLDER FINE GRIT	C, E, F	32	1	<u>3</u> /
STONE AND HOLDER SET:				
Finishing	C, E, F	32	1	<u>3</u> / see 3.4.5
Roughing	C, E, F	32	1	<u>3</u> / see 3.4.5
STONE SET:				
Finishing				MIL-STD-2073-1
Roughing				MIL-STD-2073-1
STOP, CARRIAGE:				
Micrometer	B, C, E	32	1	<u>5</u> /
Dial indicator	B, C, E	32	1	<u>5</u> / <u>14</u> /
STRAIGHT EDGE, METAL	B, D	30	1	
STRETCHER, WIRE	A, J	20	1	
STRIPPER, WIRE AND CABLE	B	20	1	
STUD REMOVER AND SETTER:				
Large and extra large	B, D	30	1	
Small	B, D	30	6	
SWAGE, BLACKSMITHS	A, J	20	1	
SWAGE BLOCK	A, J	20	1	
SWAGING TOOL	A, J	20	1	
SWAGING TOOL KIT	A, J	20	1	
TACKER, STAPLE:				
Gun or hammer	B, D	30	1	
TAMPER, ROAD OR SOIL	A, J	20	1	
TAP:				
Pipe:				
0.13-inch (3.18 mm) thru 0.50-inch (12.70 mm)	B, F	30	12	
0.75-inch (19.05 mm) thru 1.00-inch (25.40 mm)	B, F	30	6	
1.25-inch (31.75 mm) and over	B, F	30	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
Thread cutting:				
Up thru 0.50-inch (12.70 mm)	B, F	30	12	<u>11/</u>
0.56-inch (14.29 mm) thru	B, F	30	6	<u>11/</u>
1.00-inch (25.40 mm)				
1.13-inch (28.70 mm) and over	B, F	30	1	<u>11/</u>
TAPE:				
Fish	A, J	20	1	
Flexible:				
Steel ribbon:				
Metal case	F	20	1	
Leather case	None	30	1	
Vinyl case	None	10	1	
Woven ribbon:				
Leather case	None	30	1	
Vinyl case	None	10	1	
Pocket, flexible, steel blade	F	20	1	
Tank gaging	E	20	1	
TAPER ATTACHMENT LATHE				(Taper) See attachment
TAPER ATTACHMENT TELESCOPIC				(Taper) See attachment
TEMPLATE:				
Turret lathe	E	32	1	
Vane	None	33	1	
TESTER, BATTERY SOLUTION	-----	30	1	
THREAD CUTTERS AND RESTORERS				See Dies
THREADING SET, SCREW	B, F	30	1	
THIMBLE, STEEL, ALUMINUM LINED	G	30	6	<u>10/</u>
TIRE IRONS	A, J	20	6	
TIRE LOCK RING	A, J	20	6	
TIRE REMOVING TOOLS	A, J	20	1	
TONGS:				
Blacksmiths	A, J	20	4	
Railroad rail	A, J	20	1	
Railroad tie	A, J	20	1	
Other types of tongs	A, J	20	1	
TOOL - SEE CORRECT NAME FOR TYPE OF TOOL				
Beading and other power hammer tools	A, J	20	1	
Burring	B, D	20	1	
Crimping (all types)	B, D	20	1	
TOOL BLANKS	B, D	20	6	
TOOL POST, LATHE	B, E	32	1	<u>5/</u>
TOOL REST, WOODWORKING				See Rest
TOOL SET, CUTTING	B, E, I	32	1	See 3.4.5
TRAMMELS	B, D	20	1	<u>8/</u>
Ball points	F	41	1	
Replaceable points	F	41	1	
TRAY DRILL, TWIST	None	10	1	
TREPPANNING TOOL, MACHINE	B, E, I	32	1	<u>13/</u>
TRIMMER - WOOD AND TREE	A, J	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
TROWEL - ALL TYPES	A, J	20	6	
TWEEZER	B, D	20	12	<u>8/</u>
V-BLOCK	B	33	1	<u>5/</u>
V-BLOCK AND CLAMP	B, D	20	1	
V-BLOCK (CLAMP TYPE)	B	32	1	<u>5/ 13/</u>
V-BLOCK, MATCHED PAIR	B	32	1	<u>13/</u>
V-BLOCK SET (MATCH PAIR, CLAMP TYPE)	B	32	1	See 3.4.5
V-BLOCK SET, MATCHED (CLAMP TYPE)	B	32	1	See 3.4.5
VIAL, LEVEL	None	30	1	
WISE:				
Bench (all types bench mounted):				
Up thru 10 pounds (4.54 kg)	B, D	20	1	
Over 10 pounds (4.54 kg)	A, J	20	1	
Clamp toolmakers	B, E, I	32	1	<u>3/</u>
Hand:				
Contour gripping:				
Up to 16.25-inch (412.75 mm) length	B, D	20	1	
Over 16.25-inch (412.75 mm) length	A, J	20	1	
Hinged or parallel jaw	B, D	20	1	
Jewelers	B, D	20	1	
Machine vise	D	30	1	
Pin (chuck jaw)	E, I	30	1	
Pipe	B, D	20	1	
Saw, filing	B, D	20	1	
VULCANIZER				MIL-STD-2073-1
WEDGE:				
Handle:				
Steel	A, J	20	12	
Wood	None	10	12	
Honing mandrel	B, E, I	32	1	
Splitting (steel)	A, J	20	1	
Timber	A, J	20	8	
SHEEL, BUFFING	None	33	1	<u>15/</u>
WHEEL - CUTTER, PIPE	A, J	20	1	
WHEEL DRESSER, DIMOND LATHE	B, E, I	20	1	
WHEEL - GRINDING - ABRASIVE				MIL-STD-2073-1
WHEEL GUARD, GRINDER	None	10	1	
WIRE, (MEASURING):				
Gear	F	20	2 each bottle or vial (plastic)	<u>7/</u>
Thread	F	20	3 each bottle or vial (plastic)	
WIRE TWISTER PLIER				See Pliers
WRENCH:				
Adjustable:				
Up thru 1 pound (0.45 kg)	B, D	20	6	
Over 1 pound (0.45 kg)	B, D	20	1	
Basin	A, J	20	1	
Box, ratchet	B, D	20	1	

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TABLE I. Preservation and packaging - Continued.

Nomenclature	Type preservation of MIL-STD-2073-1 (see notes 6, 10, and 3.4.1)	Method of preservation (see 3.4.2)	Quantity per unit package (see 3.4.4)	Special requirements
1	2	3	4	5
WRENCH: (continued)				
Bung or drain plug				
Ferrous	B, D	20	1	
nonferrous	None	10	1	
Crow foot	B, D	20	1	
Impact:				
Electric	None	50	1	See 3.4.2.9
Pneumatic	-----	30		See 3.4.2.4
Injector body	A, J	20	1	
Lock nut	A, J	20	1	
Monkey:				
Ferrous	B, D	20	1	
Nonferrous:				
Up thru 12.00 inches (304.80 mm)	None	10	6	
Over 12.00 inches (304.80 mm)	None	10	1	
Open end, box, combination, nonadjustable:				
Up thru 1 pound (0.45 kg)	A, J	20	6	
Over 1 pound (0.45 kg)	A, J	20	1	
Pipe:				
Chain:				
Up thru 71 pounds (32.10 kg)	A, D	20	1	
Over 71 pounds (32.10 kg)	B, J	20	1	
Ferrous:				
Up thru 18.00 inches (457.20 mm)	B, D	20	6	
Over 18.00 inches (457.20 mm)	A, J	20	1	
Nonferrous:				
Up thru 18.00 inches (457.20 mm)	None	10	6	
Over 18.00 inches (457.20 mm)	None	10	1	
Girth (all sizes)	B, D	20	1	
Internal gripping	B, D	20	1	
Plier, clamping	B, D	20	1	
Ratchet	B, D	20	1	
Spanner	A, J	20	1	
Rim nut	A, J	20	1	
WRENCH, INDIVIDUAL ACCESSORIES FOR SOCKET WRENCHES	B, D	20	6	
WRENCH, SOCKET SET	B, D	20	1 set	
WRENCH, SOCKETS:				
Up thru 1.56 inches (39.62 mm)	B, D	20	6	
1.63 inches (41.40 mm thru 2 inches (50.80 mm)	B, D	20	3	
Over 2 inches (50.80 mm)	B, D	20	-----	<u>1</u> /
WRENCH TORQUE	B, E, F	20	1	
YARNING IRON	A, J	20	6	
YARDSTICK	None	30	6	

Notes: Special requirements notes (see page 44).

Type preservation legend (see page 45).

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Special requirements notes:

- 1/ When quantity is not specified in column 4, the tools shall be packed directly in the shipping container.
- 2/ Strongly strapped bundles will be acceptable in lieu of shipping containers.
- 3/ Preservative compound shall be applied to metallic items or surfaces only.
- 4/ Preservative compound conforming to MIL-PRF-16173, grade 2 shall be used on items with movable parts (for example, ratchets and universals).
- 5/ No preservative compounds shall be applied to electrical equipment, nonferrous tools, surfaces of tools that are painted, coated, or plated with corrosion-resistant materials, or are inherently resistant to corrosion.
- 6/ Individual tools in kits shall be preserved according to the requirements for each tool as listed.
- 7/ For sets containing several sizes, the set container shall be preserved method 30.
- 8/ Cutting edges and sharp points shall be protected with a sleeve or by other means.
- 9/ Application conforming to MIL-PRF-16173, grade 1 or grade 4 will not require overwrap; however, the tool shall not be packaged or packed before the preservative has hardened to the extent that handling will not affect the protective film.
- 10/ Unless otherwise specified (see 6.2), preservative shall conform to MIL-L-21260, grade 30.
- 11/ Alternatively, the item shall be packaged in a close-fitting transparent rigid plastic tube. The ends of the tube shall be closed in a manner which will prevent the contents from spilling out during handling. When more than one item is placed in a package they shall be separated from each other with paper, or dividers shall be used to provide a separate cell for each item.
- 12/ The flint shall be unscrewed (removed) and secured to the igniter with ASTM D 5486 tape.
- 13/ Wrap parts individually in greaseproof barrier material conforming to MIL-B-22191, type II.
- 14/ Wrap parts individually in greaseproof barrier material as specified in footnote 13, and protect precision surface with a sheet of fiberboard, conforming to ASTM D 4727, secure fiberboard with pressure-sensitive adhesive tape conforming to ASTM D 5486, class optional.
- 15/ Wheels requiring protection from moths shall be provided with naphthalene flakes or paradichlorobenzene crystals conforming to A-A-52287.
- 16/ In case of rectangular tool bit size, greatest cross section (that is, height or width) determines the size of tool.
- 17/ Place items between two sheets of fiberboard conforming to ASTM D 4727, class weather-resistant and secure with tape conforming to ASTM D 5486, class optional.
- 18/ Wrap optic lens with paper conforming to A-A-50177 to prevent scratching of lens.

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Type preservation legend.

Type	Reference	Description
A	MIL-PRF-16173, grade 1	Thin film preservative (hard drying, cold application).
B	MIL-PRF-16173, grade 2	Thin film preservative (soft film, cold application).
C	MIL-PRF-16173, grade 3	Thin film preservative, water displacing (soft film, cold application).
D	MIL-C-11796, class 3	Light preservative compound (soft film, hot application).
E	MIL-L-3150	Medium preservative oil (cold application).
F	VV-L-800	Very light preservative oil, water displacing (cold application).
G	MIL-L-21260, grade 30	Engine preservative oil.
H	Specification for hydraulic preservative oils has not been listed because of variations in system requirements. Hydraulic preservatives used shall be subject to approval by the procuring agency.	
I	MIL-P-3420	Volatile corrosion inhibitor.
J	MIL-PRF-16173, grade 4	Thin film preservative (transparent, non-tacky).

Cross-reference of preservation types and methods of preservation:

Preservation types		Methods of preservation	
PPP-P-40B	PPP-P-40C	PPP-P-40B	PPP-P-40C
P1	A	I	20
P2	B	IA8	41
P3	C	IA14	42
P6	D	IC	30
P7	E	IC1	33
P9	F	IC2	32
P10	G	IC3	31
P15	H	II	50
P18	I	IIa	53
P19	J	IIb	52
		III	10

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1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
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I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
PPP-P-40C

2. DOCUMENT DATE (YYMMDD)
980525

PRESERVATION AND PACKING OF HAND TOOLS; TOOLS AND TOOLS ACCESSORIES FOR POWER DRIVEN, METAL AND WOODWORKING MACHINERY

4. NATURE OF CHANGE Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)
(1) Commercial
(2) AUTOVON
(if applicable)

7. DATE SUBMITTED
(YYMMDD)

8. PREPARING ACTIVITY

a. NAME
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