

MIL-STD-1190 (SM)  
10 September 1986

## MILITARY STANDARD

### MINIMUM GUIDELINES FOR LEVEL C PRESERVATION, PACKING AND MARKING

This Military Standard is approved for use by the U.S. Army Materiel Command Packaging, Storage, and Containerization Center, Department of the Army, available for use by all departments and agencies of the Department of Defense.

1. **SCOPE.** This standard establishes minimum Army packaging, using federal or military specifications, for protection of equipment from supply source to the first receiving activity and subsequent redistribution.

#### 2. APPLICABLE DOCUMENTS.

2.1 Specifications and standards. Unless otherwise specified, the following specifications and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein.

#### SPECIFICATION

##### MILITARY

MIL-P-116 Preservation, Methods of

#### STANDARDS

##### MILITARY

MIL-STD-129 Marking for Shipment and Storage  
MIL-STD-1189 Standard Department of Defense Bar Code  
Symbolology

#### 3. DEFINITIONS.

3.1 Unit pack. The unit pack is the first tie, wrap, or container applied to a single item or a quantity thereof, or to a group of items of a single stock number, preserved or unpreserved, that constitutes a complete or identifiable package. The same applies for a set, kit, assembly, etc., with all its component parts, that constitutes a complete and individually identifiable package.

#### AREA PACK

AMSC N/A

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3.2 Intermediate pack. A wrap, box, or bundle that contains two or more unit packs of identical items.

## 4. GENERAL REQUIREMENTS.

4.1 Packaging. Preservation, packing, and marking furnished by the supplier shall meet or exceed the following minimum requirements:

4.1.1 Cleanliness. Cleaning shall be in accordance with the applicable process of MIL-P-116.

4.1.2 Drying. Immediately after cleaning, item(s) shall be thoroughly dried to remove cleaning solutions or residual moisture in accordance with MIL-P-116.

4.1.3 Preservative. Items susceptible to corrosion or deterioration shall be provided protection such as preservative coatings or volatile corrosion inhibitors. Application of the preservative shall be in accordance with MIL-P-116.

4.1.4 Unit pack quantity. Unless otherwise specified, the unit pack quantity shall be one. One unit of issue (e.g., "each," "roll," "package," etc.) shall be individually unit packaged unless a larger quantity is specifically stated.

4.1.5 Unit packs. Each item shall be unit packed, to include wrapping and cushioning as necessary, in such a manner that it will afford adequate protection against physical and environmental damage during shipment, handling, and storage. The unit pack shall meet MIL-P-116 requirements for the preservation method utilized. Sets, kits, assemblies, or items consisting of more than one part shall be individually unit packed. Components shall be suitably segregated and identified within the unit pack. Each set, kit, assembly, or item shall include a list of contents.

4.1.6 Intermediate packs. Intermediate packs containing uniform quantities of items, bearing the same stock number, will be used when the exterior surface of the unit pack is a bag of any type, regardless of size or is less than 64 cubic inches (163 cm<sup>3</sup>).

4.1.6.1 Intermediate pack quantity. Intermediate containers shall be limited to a maximum of 100 unit packs, a net load of 40 pounds (18.2 kg) or a maximum volume of 1.5 cubic feet (.045 m<sup>3</sup>), whichever occurs first.

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4.1.7 Packing. A multiple quantity of unit or intermediate packs, bearing the same stock number, shall be placed in close-fitting containers conforming to federal or military specifications. Unit and intermediate packs that meet all common carrier rules and provide safe delivery to destination need not be packed in shipping containers.

4.1.8 Unitization. Palletization shall be required when quantities per destination exceed either a total of 250 pounds (113.5 kg) (excluding the pallet) or a volume of 20 cubic feet (.60 m<sup>3</sup>). A quantity of items packed for shipment shall be placed on pallets, standard size 40 by 48 inches (102 by 122 cm), conforming to federal or military specifications. The load shall be secured to the pallet by any means that will ensure safe delivery to destination.

4.1.9 Marking. In addition to any special marking required by the contract or order, all unit packs, intermediate packs, and exterior shipping containers shall be legibly and durably marked in accordance with MIL-STD-129.

4.2 Bar Code Markings. Bar code markings are required and shall be applied in accordance with MIL-STD-129 and -1189.

4.3 Quality assurance provisions. Inspection shall be performed by the contractor and shall consist of the inspection and quality conformance requirements outlined in MIL-P-116. In addition, when the unit container is the same as the shipping container, the rough handling and cyclic exposure tests cited in MIL-P-116 shall apply.

Review activities:

Army - AL, AT, AV, CR, ME, MI

Preparing activity:

Army - SM

(Project PACK A323)

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