

**MIL-P-15024D**

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**SUPERSEDING****MIL-P-15024C**

29 February 1968

**MILITARY SPECIFICATION****PLATES, TAGS AND BANDS FOR IDENTIFICATION  
OF EQUIPMENT**

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

**1. SCOPE**

1.1 Scope. This specification covers the materials and physical characteristics of plates, tags and bands (identification devices) used for identification of equipment. Examples of information to be marked on the identification devices are covered in specification sheets to this specification.

1.2 Classification. Identification devices shall be classified as follows:

Type A	Etched or chemically engraved	} Plates
Type B	Engraved	
Type C	Stamped	
Type D	Cast	
Type E	Screen or Litho print	
Type F	Laminated plastic	
Type G	Adhesive-backed metal foil	
Type H	Photosensitive aluminum (other than foil)	
Type J	Tag	} Other
Type K1	Cable band (Plastic)	
Type K2	Cable band (Heat shrinkable tubing)	

**2. APPLICABLE DOCUMENTS**

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

FSC 9905

**MIL-P-15024D****SPECIFICATIONS****Federal**

L-P-387	Plastic Sheet, Laminated, Thermosetting (for Designation Plates)
P-C-437	Cleaning Compound, High Pressure (Steam) Cleaner
QQ-A-250/1	Aluminum Alloy 1100, Plate and Sheet
QQ-A-250/8	Aluminum Alloy 5052, Plate and Sheet
QQ-B-613	Brass, Leaded and Non-Leaded, Flat Products (Plate, Bar, Sheet and Strip)
QQ-S-766	Steel Plate, Sheet, and Strip-Corrosion Resisting
QQ-S-781	Strapping, Steel, Flat and Seals
TT-F-325	Filler, Engraving, Stamped Marking
PPP-B-566	Box, Folding, Paperboard
PPP-B-585	Boxes, Wood, Wirebound
PPP-B-601	Boxes, Wood, Cleated-Plywood
PPP-B-621	Boxes, Wood, Nailed and Lock-Corner
PPP-B-636	Box, Fiberboard
PPP-B-676	Box, Setup
PPP-T-60	Tape, Pressure-Sensitive Adhesive, Waterproof, for Packaging
PPP-T-76	Tape, Pressure-Sensitive Adhesive Paper, Water Resistant, (For Carton Sealing).

**Military**

MIL-P-116	Preservation, Methods of
MIL-P-19S31	Plates, Identification, Metal Foil, Adhesive Backed

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**SPECIFICATIONS**Military (Continued)

MIL-I-23053/5	Insulation Sleeving, Electrical, Heat Shrinkable, Polyolefin, Flexible, Crosslinked
MIL-C-25789	Cleaning Compound, Aircraft Surface, Alkaline Waterbase
MIL-B-43014	Boxes, Water Resistant Paperboard, Folding, Set-Up, Metal-Stayed
MIL-M-43719	Marking Materials and Markers, Adhesive, Elastomeric, Pigmented, General Specification for
MIL-M-81531	Marking of Electrical Insulating Materials

**STANDARDS**Federal

FED-STD-141	Paint, Varnish, Lacquer and Related Materials, Methods of Inspection, Sampling and Testing
FED-STD-191	Textile Test Methods
FED-STD-595	Colors

Military

MIL-STD-12	Abbreviations for Use on Drawings and in Technical Type Publications
MIL-STD-105	Sampling Procedures and Tables for Inspection By Attributes
MIL-STD-129	Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U. S. Military Property
MIL-STD-202	Test Methods for Electronic and Electrical Component Parts
MIL-STD-454	Standard General Requirements for Electronic Equipment

**MIL-P-15024D****STANDARDS****Military (Continued)**

<b>MIL-STD-810</b>	<b>Environmental Test Methods</b>
<b>MIL-STD-1472</b>	<b>Human Engineering Design Criteria for Military Systems, Equipment and Facilities</b>
<b>MS 17822</b>	<b>Strap, Cable, Identification, Adjustable, Self-Clinching Plastic, Type II, Class I</b>

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

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

**American Society for Testing and Materials**

<b>ASTM D-1924-70</b>	<b>Resistance of Synthetic Polymeric Materials to Fungi, Recommended Practice for Determining</b>
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(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa. 19103.)

**3. REQUIREMENTS**

3.1 **Specification sheets.** The individual requirements for identification devices shall be as specified herein and in accordance with the applicable detail specification sheet.

3.2 **Marking format and information.** The marking format and information shall be as specified in the detail specification sheets, when applicable. The approval of the procuring activity shall be obtained for applications not covered by a detail specification sheet in regards to the legend and the device location on the equipment. The Army requires a facsimile or scale drawing of all identification device designs for approval.

3.2.1 **Identification plates.** When design conditions permit, identification plates shall be used on the types of equipment specified in the detail specification sheet. When it is impractical to install an identification plate due to physical size of the item, availability of space or unsuitability of mounting surfaces, the contractor

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shall propose a reduced size for the plate, direct marking, or the use of Type J identification, in that order of preference, stating justification therefore. The contractor shall include all required marking information, and shall attempt to use the required format and sequencing of the marking information.

3.2.1.1 Additional marking information. Type J tags, and all identification plates except Types E, G and plastic Type B may be steel stamped with additional information such as dates, etc., which may be added sometime after initial manufacture. Additional information steel stamped on the plate shall be 0.003 inch deep, minimum, unless specified otherwise in the detail specification sheet. Additional marking information need not be filled.

3.2.2 Information plates. When specified in the contract or order, proposed information plate designs shall be submitted to the procuring activity for approval.

3.3 Characters. Characters shall be in accordance with MIL-STD-130. Abbreviations shall be in accordance with MIL-STD-12. The method of marking shall be as specified in 3.7 through 3.16. Except for plates smaller than size 1 of Table II the minimum size of characters shall be 3/32 inch in height. Nomenclature characters shall be not less than 3/16 inch.

3.4 Filling of markings. Engraved, stamped or etched metal plates shall be filled with a hard paint, enamel or lacquer of the color specified. If markings are filled, the face of the plate shall be coated with a moisture-resistant varnish. When preservation of a matte finish is required, a coating of clear flat epoxy may be used in place of the varnish. Plastic plates engraved through one lamination so as to show a lamination of a contrasting color do not require filling of the characters or protective coating.

3.5 Permanency and legibility. Permanency and legibility shall be in accordance with MIL-STD-130.

3.6 Physical properties.

3.6.1 Materials. Identification devices shall be made of a fungus inert material in accordance with MIL-STD-454 Requirement 4 which will withstand the same environmental and cleaning conditions as the item to which the device will be attached. Flammable materials as identified in MIL-STD-454 Requirement 3 shall not be used. Paints, fillers, varnish coatings and adhesives shall show no evidence of fungus when tested in accordance with 4.4.1.11. When a plate material is not specified, the plate material shall be selected from the following, for optimum compatibility with the surface to which it is attached and the environmental conditions to which it will be exposed.

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- (a) Brass (commercial) (QQ-B-613, composition 260), or Bronze
- (b) Corrosion-resisting steel (QQ-S-766, Class 302)
- (c) Aluminum alloy (QQ-A-250/1 and QQ-A-250/8)
- (d) Plastic (for application not directly exposed to weather) (L-P-387)

Other materials may be used with the approval of the procuring activity.

3.6.2 Plastic plates. Edges of plastic plates shall be beveled, where beveling will not be harmful to the plate.

3.6.3 Color style. The background and character color of the identification device shall be as specified in the detail specification sheet, and in accordance with Table I. When a color style for identification devices to be used on electronic equipment is not specified, color Style III shall be used. Other colors may be used with the approval of the procuring activity.

TABLE I  
COLOR STYLES

Style	Background		Characters	
	Color	FED-STD-595 Color Number	Color	FED-STD-595 Color Number
I	White	37875	Black	37038
II	Black	37038	White	37875
III	Black	37038	Natural	-
IV	Natural	-	Black	37038
V	Olive drab	24087	White	37875
VI	Red	21105	White	37875
VII	Yellow	23655	Black	37038
VIII	Red	21105	Natural	-
IX	Orange	12197	Natural	-

Note: When plates are designed with blank spaces or pads upon which additional marking will be added at a later time, the background and character color requirements do not apply to the pads or characters marked thereon.

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3.6.3.1 **Opacity.** The opacity of paint and ink used for marking shall be such that the background on which they are applied will be completely hidden.

3.6.4 **Finishes.** All front surfaces shall be matte, satin (line), or semi-gloss, as the type of material or finish thereon permits.

3.6.4.1 **Gloss.** The surfaces of plastic plates shall have a specular gloss of  $25 \pm 10$  (see 4.4.1.10).

3.6.5 **Plate size.** The size of identification plates shall be as specified in the detail specification sheet. Plate sizes with standard dimensions are listed in Table II. When the size is not specified in the detail specification sheet, a size compatible with that of the equipment to which the plate will be attached, shall be used. For plates with standard dimensions the number, size, and location of the mounting holes on the plate shall be as specified in Table II. Sizes for Type G plates may be other than the standard sizes of Table II. Type G plates and other plates using an adhesive for mounting shall not have mounting holes.

TABLE II  
STANDARD DIMENSIONS

Size Number	Length	Width	Diameter of Holes	Number of Holes	Hole Center to Edge	Hole Center Spacing	
						Length	Width
	Inches	Inches	Inch		Inch	Inches	Inches
1	2	3/4	1/8	2	1/8	1-3/4	-----
3	2	2	1/8	4	1/8	1-3/4	1-3/4
4	3	1	1/8	2	1/8	2-3/4	-----
5	3	2	1/8	4	1/8	2-3/4	1-3/4
6	3	3	1/8	4	1/8	2-3/4	2-3/4
7	4	1-1/2	1/8	2	1/8	3-3/4	-----
8	4	2	1/8	4	1/8	3-3/4	1-3/4
9	4	3	1/8	4	1/8	3-3/4	2-3/4
10	4	4	1/8	4	3/16	3-5/8	3-5/8
12	5	3	5/32	4	3/16	4-5/8	2-5/8
14	5	5	5/32	4	3/16	4-5/8	4-5/8
17	6	4	5/32	4	3/16	5-5/8	3-5/8
19	6	6	5/32	4	3/16	5-5/8	5-5/8
21	7	3	5/32	4	3/16	6-5/8	2-5/8
23	7	5	5/32	4	3/16	6-5/8	4-5/8
25	7	7	5/32	4	3/16	6-5/8	6-5/8
Other	As approved by the procuring activity						

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**3.7 Type A, (etched or chemically engraved).****3.7.1 Materials. Type A plates shall be one of the following materials:**

- (a) Brass
- (b) Corrosion-resisting steel
- (c) Aluminum alloy

**3.7.2 Marking method.** Characters shall be either sunken etched (characters etched into the metal) or relief etched (characters in relief). Etched areas shall be filled with the appropriate color as specified in 3.4. Plates which are relief etched shall have a border in relief. Additional information may be steel stamped in accordance with 3.2.1.1.

**3.7.3 Dimensions.** Etched areas shall be not less than 0.003 inch deep. The thickness of Type A plates shall be 0.03 inch minimum.

**3.5 Type B (engraved).**

**3.8.1 Materials.** Type B plates shall be of one of the following materials.

- (a) Brass
- (b) Corrosion-resisting steel
- (c) Aluminum alloy
- (d) Plastic (Type NDP opaque and fungus resistant in accordance with L-P-387)

**3.8.2 Marking method.** All characters shall be engraved in the plate. Engraving in metal plates shall be filled with Type II (paste) opaque filler in accordance with TT-F-325, of the desired color. Additional information may be steel stamped in accordance with 3.2.1.1.

**3.8.3 Dimensions.** The engraving shall be rectangular or V-shaped in cross-section. It shall be uniform in depth for characters of the same size. In metal plates, it shall be a minimum of 0.003 inch deep. In plastic plates, the depth shall be sufficient to insure uniform penetration of the cover (top layer). Line widths shall be not less than 1/8 or more than 1/5 of the related character heights. The thickness of Type B plates shall be 0.03 inch minimum.



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**3.9 Type C stamped.****3.9.1 Materials. Type C plates shall be of one of the following materials:**

- (a) Brass
- (b) Corrosion-resisting steel
- (c) Aluminum alloy

**3.9.2 Marking method. All characters shall be stamped on the plate. Additional information may be steel stamped in accordance with 3.2.1.1.****3.9.3 Dimensions. Stamping shall not be less than 0.003 inch deep. The thickness of Type C plates shall be 0.03 inch minimum.****3.10 Type D (cast).****3.10.1 Materials. Type D plates shall be of cast brass or bronze of commercial quality.****3.10.2 Markings. All characters shall be raised above the body of the plate and shall be polished. The balance of the plate shall have a roughened or stippled finish. Additional information may be steel stamped in accordance with 3.2.1.1, on raised pads provided for this purpose.****3.10.3 Dimensions. Characters shall be raised to 0.03 inch minimum. The thickness of Type D shall be as specified in the contract or order. When not specified, the thickness may be the manufacturer's standard.****3.11 Type E (screen or litho print).****3.11.1 Materials. Type E plates shall be one of the following materials or may be fabricated from a Type I adhesive backed film conforming to MIL-M-43719 adhered to aluminum alloy sheet conforming to QQ-A-250/8. Type E plates shall be for use in environment protected areas only.**

- (a) Brass
- (b) Corrosion-resisting steel
- (c) Aluminum alloy
- (d) Plastic, Type HSP in accordance with L-P-387

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3.11.2 Marking method. Marking shall be applied by litho printing or screen printing. Other similar processes may be used with the approval of the procuring activity. A protective coating of compatible fungus-resistant, moisture-resistant clear varnish may be applied over the marking.

3.11.3 Dimensions. The thickness of Type E plates shall be 0.03 inch minimum.

3.12 Type F (laminated plastic).

3.12.1 Materials. Type F plates shall be of plastic material, Type GCP-H opaque in accordance with L-P-987.

3.12.2 Marking method. Characters shall be included between the laminations and shall be clearly visible through a transparent outer layer. Additional information may be steel stamped in accordance with 3.2.1.1.

3.12.3 Dimensions. Thickness of Type F plates shall be 0.03 inch minimum.

3.13 Type G (adhesive backed metal foil).

3.13.1 Materials. Type G plates shall be in accordance with MIL-P-19834.

3.13.2 Marking method. All characters shall be integrated into the plate by a photographic process, or by a screening, anodizing or chemical etching process which will meet the durability requirements for the particular application. Additional marking information may be added by a suitable typewriter, or by serializing devices which will not break through the foil, or produce an impression or raised surface which would affect the adhesive qualities of the plate.

3.14 Type H (photosensitive, other than foil).

3.14.1 Materials. Type H plates shall be aluminum alloy with a totally anodized surface and may be mounted by fastener devices or by an adhesive.

3.14.2 Marking method. Characters shall be integrated into the anodized layer by a photographic process using silver compounds. Processes using other than silver compounds may be used when specified by the procuring activity. Additional marking information may be steel stamped in accordance with 3.2.1.1.

3.14.3 Dimensions. The thickness of Type H plates shall be 0.02 inch minimum for plates using fasteners. For plates using adhesives, the thickness shall be 0.012 inch minimum and 0.025 inch maximum.

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**3.15**            Type J (identification tag).

**3.15.1**            Materials. Type J tags shall be of a plastic conforming to L-P-387 Type GCP-H, aluminum, or corrosion resisting steel. Plastic tags shall be black or white.

**3.15.2**            Marking. All characters shall be permanently stamped in the tag.

**3.15.3**            Dimensions. The thickness of the tag shall be 0.03 inch minimum. Unless otherwise specified in the detail specification sheet, the length and width of the tag shall be governed by the amount of data to be marked and the dimensions of the item to be identified.

**3.15.4**            Mounting. Mounting provisions shall be approved by the procuring activity.

**3.16**            Type K1 plastic cable band and Type K2 heat shrinkable tubing.

**3.16.1**            Materials. Type K1 cable bands shall be of a plastic material which will meet the operating and environmental requirements of the cable on which it is used. Plastic cable band material shall be compatible with the cable jacket material on which it is used. Unless otherwise specified, K1 cable bands shall be white or black. Cable straps conforming to MS17822 may be used for Type K1 bands.

Note: Aluminum may be used for Type K1 bands when specified in the detail specification sheet.

Type K2 cablebands shall be of tubing Class 1, heat shrinkable, polyolefin conforming to MIL-I-23053/5. Unless otherwise specified, the color of the tubing used for K2 cable bands shall be yellow.

**3.16.2**            Marking method. All characters shall be permanently stamped, in accordance with MIL-M-81531.

**3.16.3**            Dimensions. The size of the cable band shall be as specified in the detail specification sheet. When no size is specified the size shall be determined by the information to be marked and the size of the cable to be identified. The thickness of K1 plastic cable bands shall be 0.010 inch minimum.

**3.17**            Environmental. Products covered by this specification shall be capable of meeting the applicable tests specified in 4.4.

**3.18**            Mounting or attachment. Identification devices shall be securely mounted or attached to the equipment as specified in the detail equipment specification.

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**3.19 Workmanship.** The manufacture of the identification devices covered by this specification shall be representative of the best commercial practices and shall conform to the applicable specifications for the type involved.

**4. QUALITY ASSURANCE PROVISIONS**

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

**4.2 Quality conformance inspection.** Identification devices shall be capable of meeting the test requirements specified herein, for the applicable type, but the tests need not be performed unless specified in the contract or order. When testing is specified in the contract or order the following shall apply.

**4.2.1 Lot.** All identification devices of the same type, style and size offered for delivery at one time shall be considered a lot for purposes of inspection.

**4.2.2 Sampling for examination.** A random sample of identification devices shall be selected from each lot in accordance with MIL-STD-105 at Inspection Level III for the examination specified in 4.3. The Acceptable Quality Level (AQL) shall be 4 percent defective.

**4.2.3 Sampling for tests.** A random sample of identification devices shall be selected from a lot in accordance with MIL-STD-105 at Inspection Level S-4. Tests shall be as specified in 4.4, and completed for the initial lot and once every six months. Satisfactory test data will constitute acceptance for the interim time period.

**4.3 Examination.** Each of the sample items, selected in accordance with 4.2.2 shall be examined to verify compliance with the requirements of this specification. Examination shall be conducted as specified in Table III. Any item in the sample containing one or more defects shall be rejected and if the number of defective items in any sample exceeds the acceptance number for that sample, it shall be cause for rejecting the lot.

**4.4 Test procedure.** Each of the sample items of a specific type selected in accordance with 4.2.3 shall be subjected to all of the tests specified in Table IV for that type. A completely marked item shall be considered a unit of product for testing purposes. Test specimens of adhesive backed plates and types

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K and L bands shall be secured to a replica of the surface on which they will be mounted, or cable to which they will be attached during normal use. If any sample fails to conform to any test, the lot represented by the sample shall be rejected.

TABLE III

## CLASSIFICATION OF DEFECTS IN ACCORDANCE WITH MIL-STD-105

Categories (MIL-STD-105)	Defects
Major:	
101	Finish blistered, flaked, peeled, chipped, cracked, softened or not as specified.
102	Burred, slivered, splintered, split, delaminated or injurious to personnel.
103	Incorrect color.
104	Illegible.
105	Inscription or description does not conform to applicable detail specification sheet or contract requirements.
106	Materials not as specified.
107	Dimensions do not meet requirements.

4.4.1 Deterioration. Deterioration tests shall consist of the tests, specified in 4.4.1.1 through 4.4.1.11. Failure of deterioration tests shall be evidenced by flaking, peeling, dissolving, distorting, softening, presence of oxidation, discoloration, or visible evidence of fungus. Slight discoloration or fading of anodized colors which do not exhibit a deleterious effect on legibility is permissible.

4.4.1.1 Temperature test. The finished item mounted to a test surface, if applicable, shall be tested in accordance with MIL-STD-202, Method 102 Condition C, for three cycles.

4.4.1.2 Moisture resistance test. The finished item mounted to a test surface, if applicable, shall be tested in accordance with MIL-STD-202, Method 106.

4.4.1.3 Solvent resistance test. The finished item mounted to a test surface, if applicable, shall be tested in accordance with MIL-STD-202, Method 215. The face of the plate shall be brushed.

4.4.1.4 Salt spray test. The finished item mounted to a test surface, if applicable, shall be tested in accordance with MIL-STD-202, Method 101 Condition B.

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TABLE IV  
TEST METHODS

Type Identification Device	Material	Tests Required										
		Temperature 4.4.1.1	Moisture Resistance 4.4.1.2	Solvent Resistance 4.4.1.3	Salt Spray 4.4.1.4	Weather 4.4.1.5	Flammability 4.4.1.6	Abrasion 4.4.1.7	Cleaning 4.4.1.8	Thermal Shock 4.4.1.9	Glue 4.4.1.10	Fungus 4.4.1.11
A Etched or chemically engraved plate	Brass	X	X	X	X	X		X	X			X
	Corrosion-resistant steel	X	X	X	X	X		X	X			X
	Aluminum alloy	X	X	X	X	X		X	X			X
B (engraved) plate	Brass	X	X	X	X	X		X	X			X
	Corrosion-resistant steel	X	X	X	X	X		X	X			X
	Aluminum alloy	X	X	X	X	X		X	X			X
	Plastic		X	X			X	X	X	X	X	X
C (stamped) plate	Brass	X	X	X	X	X		X	X			X
	Corrosion-resistant steel	X	X	X	X	X		X	X			X
	Aluminum alloy	X	X	X	X	X		X	X			X
D (Cast) plate	Brass				X			X	X			X
	Bronze				X			X	X			X
E Screen or litho print plate	Brass		X	X		X			X	X	X	X
	Corrosion-resistant steel		X	X		X			X	X	X	X
	Aluminum alloy		X	X		X			X	X	X	X
	Plastic		X	X		X	X		X	X	X	X
F (laminated) plate	Plastic		X	X		X	X		X	X	X	X
G Adhesive-backed metal foil plate	Aluminum foil	Tests in accordance with MIL-P-15024 (see 3.13.2)										
H Photosensitive plate	Aluminum alloy	X	X	X	X	X		X	X			X
J I.E. tag	Plastic		X	X			X		X	X	X	X
	Aluminum	X	X	X	X	X		X	X			X
	Corrosion-resistant steel	X	X	X	X	X		X	X			X
K1 & K2 cable band	Plastic bands and heat shrinkable tubing		X	X			X	X		X		X

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4.4.1.5 Weather test. The finished item mounted to a test surface, if applicable, shall be exposed to a flaming carbon arc at a distance of approximately 18 inches for a period of 50 hours. The carbon used shall operate on a current of 50 to 60 amperes. A spray shall be adjusted so that the plate is sprayed with water for approximately 20 minutes of each 2 hours exposure.

4.4.1.6 Flammability test. The finished item shall be tested for flammability as specified in MIL-STD-454 Requirement 3.

4.4.1.7 Abrasion resistance test. Using a standard abrasion apparatus with CS-17 calbrase wheels and 1,000 gram loading, the abrasion test shall be performed on the finished item in accordance with FED-STD-191, Method 5306, and shall consist of 500 cycles.

4.4.1.8 Cleaning resistance test. The finished item shall be capable of withstanding the effects of cleaning agents employed in P-C-437 and MIL-C-25769 applied by cold steam process, hose, brush, and hand-wipe for a period of 1 minute.

4.4.1.9 Thermal shock for nonmetallic items. Nonmetallic items shall show no signs of chipping, peeling, cracking, shrinking or other damage when tested in accordance with MIL-STD-202 Method 107 Condition A.

4.4.1.10 Gloss for nonmetallic items. Nonmetallic items shall be subjected to the specular gloss test, in accordance with FED-STD-141, Method 6101, to determine conformance with 3.6.4.1.

4.4.1.11 Fungus test. The finished item, mounted to a test surface, if applicable, shall be tested in accordance with ASTM D-1924 with visual reading of "0".

4.5 Preparation for delivery examination. The lot size shall be the number of containers offered for delivery at one time. The inspection level for determining the sample size shall be S-4 of MIL-STD-105. The sample unit shall be one packed shipping container fully prepared for delivery with the exception that it shall not be sealed. Each of the sample containers shall be examined to determine if the items are packaged, packed and marked as specified herein. Defects of closure listed in Table V shall be used as the inspection criteria. The AQL shall be 6.5 percent defects per hundred units, fully prepared for delivery.

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TABLE V

**CLASSIFICATION OF DEFECTS IN PACKAGING AND PACKING  
IN ACCORDANCE WITH MIL-STD-105**

Categories MIL-STD-105	Defects
Major:	
108	Marking (interior and exterior container): Omitted; incorrect; illegible; size, location or method of application incorrect.
109	Materials (container): Item missing, damaged, defective, incorrect, improper.
110	Workmanship (container): Incomplete closure of case liners and container flaps; loose strapping, inadequate stapling or taping; bulging or distortion of containers.

**5. PREPARATION FOR DELIVERY**

(The preparation for delivery requirements specified herein apply only for direct Government procurements. Preparation for delivery requirements of referenced documents listed in Section 2 do not apply unless specifically stated in the contract or order. Preparation for delivery requirements for products procured by contractors shall be specified in the individual orders.)

5.1 Preservation-packaging. Preservation-packaging shall be Level A or C, as specified.

5.1.1 Level A. Items of the same type, style and size shall be individually packaged in accordance with MIL-P-116, Method III insuring compliance with the General Requirements paragraph under Methods of Preservation (Unit Protection) and the Physical Protection Requirements paragraph therein.

5.1.1.1 Intermediate packaging. Items, packaged as described in 5.1.1, shall be placed in intermediate containers conforming to PPP-B-566 or PPP-B-576. Intermediate containers shall be uniform in size, shape and quantities, shall be of minimum tare and cube and shall contain multiples of five unit packages, not to exceed 50 packages. No intermediate packaging is required when the total quantity shipped to a single destination is less than 50 unit packages.



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5.1.2 Level C. Items of the same type, style and size shall be individually packaged in a manner that will afford adequate protection against mechanical and physical damage during shipment from supply source to the first receiving activity.

5.2 Packing. Packing shall be Level A, B or C as specified.

5.2.1 Level A. Items packaged as specified in 5.1 shall be packed in fiberboard containers conforming to PPP-B-636, V Grade, special requirements, style optional. In lieu of the closure and waterproofing requirements in PPP-B-636, all seams, corners and manufacturers joint shall be sealed with tape, two inches minimum width, conforming to PPP-T-60, Class 1 or PPP-T-76. Banding (reinforcement requirements) shall be applied in accordance with the appendix to PPP-B-636 using nonmetallic or tape banding. Containers shall be of uniform size and shape and shall contain identical quantities, when practicable.

5.2.2 Level B. Items packaged as specified in 5.1, shall be packed in fiberboard containers conforming to PPP-B-636, class domestic, style optional, special requirements. Closure shall be in accordance with the appendix thereto. Containers shall be of uniform size and shape and shall contain identical quantities, when practicable.

5.2.3 Level C. Items packaged as specified in 5.1, shall be packed in shipping containers in a manner that will afford adequate protection against damage during direct shipment from the supply source to the first receiving activity. These packs shall conform to the applicable carrier rules and regulations.

5.3 Marking. In addition to any special marking required by the contract or order, each unit, package, intermediate and exterior container shall be marked in accordance with MIL-STD-129.

5.4 Army procurements (see 5.1.1, 5.1.1.1, 5.2.1 and 5.2.2). All unit and intermediate containers shall either be weather-resistant or overwrapped with waterproof barrier materials. Containers conforming to PPP-B-566 or PPP-B-676 shall be overwrapped with waterproof barrier materials or shall conform to MIL-B-43014. For level A packing when quantities per destination are less than a unitized load, the fiberboard containers shall not be banded but shall be placed in a close-fitting box conforming to PPP-B-601, overseas type; PPP-B-621, class 2, style 4, or PPP-B-585, class 3, style 2 or 3. Closure and strapping shall be in accordance with the applicable container specification except that metal strapping shall conform to QQ-S-781, type 1, Class B. For level B packing, fiberboard boxes shall be weather-resistant as specified in level A and the containers shall be banded.

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## 6. NOTES

6.1 Intended use. The items covered by this specification are intended for use to identify electrical, electronic or mechanical equipment or when required to present other information necessary for the installation, use, operation or maintenance, of these equipments.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Specify facsimile or drawing submission requirement (3.2, 3.2.2).
- (c) Specify proposed information plate design submission requirement (3.2.2).
- (d) Color of filler (3.4).
- (e) Color style (3.6.3 and Table I).
- (f) Color of cores and cover sheets (3.6.2.1).
- (g) Specify plate size, if applicable (3.6.5).
- (h) Type identification device and material (3.7 through 3.17).
- (i) Specify thickness of Type D plates, if applicable (3.10.3).
- (j) Specify testing requirement (4.2).
- (k) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).
- (l) Quantity or weight limitations of the shipping container (see 5.2.1 and 5.2.2).

6.3 Definitions. For the purpose of this specification the following definitions apply.

6.3.1 Characters. Letters, numerals, symbols and all other markings printed, imprinted, engraved, etched, or stamped, etc.

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6.3.2 Identification plate. Plates used to identify equipment with nomenclature, type designation, manufacturer, part number, etc. It does not normally contain instructional, caution, shipping or maintenance information.

6.3.3 Information plate. Plates used to present information other than identifying, such as warning, ratings, wiring connections, diagrams, charts, operating or maintenance instructions, etc.

6.4 Changes from previous issue. Asterisks are normally used to identify changes from the previous issue of the specification. Due to the extensiveness of the changes in this revision, this practice has not been followed.

**Custodians:**

Army - GL  
Navy - AS  
Air Force - 84

**Preparing activity:**

Navy - AS  
(Project No. 9905-0178)

**Review activities:**

Army - EL, ME, AV  
Navy - SH, EC, OS  
Air Force -  
Defense Supply Agency - GS

**User activities:**

Army - MI, MU  
Navy - CG, MC  
Air Force -

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