

MIL-B-43436C

28 April 1976

SUPERSEDING

MIL-B-43436B

19 November 1973

(see 6.3)

## MILITARY SPECIFICATION

## BAND MARKERS, BLANK, GENERAL SPECIFICATION FOR

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

## 1. SCOPE

1.1 Scope. This specification covers general requirements for blank band markers. Specific requirements for band markers are covered by the applicable specification sheets (see 6.3).

## 2. APPLICABLE DOCUMENTS

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

## SPECIFICATIONS

## FEDERAL

QQ-A-250/1	-	Aluminum 1100, Plate and Sheet
QQ-A-250/2	-	Aluminum Alloy 3003, Plate and Sheet
PPP-B-566	-	Boxes, Folding, Paperboard
PPP-B-636	-	Boxes, Shipping, Fiberboard
PPP-B-665	-	Boxes: Fiberboard, Metal Edged, and Components
PPP-B-676	-	Boxes, Setup

## MILITARY

MIL-B-43436/1-	Band Markers, Blank:	Single Crimp Style Band
MIL-B-43436/2-	Band Markers, Blank:	Two Prong Crimp Style Band
MIL-B-43436/3-	Band Markers, Blank:	Three Prong Crimp Style Band
MIL-B-43436/4-	Band Markers, Blank:	Single Belt Style Band
MIL-B-43436/5-	Band Markers, Blank:	Double Belt Style Band

FSC 9905

MIL-B-43436C

**STANDARDS**

**FEDERAL**

**FED-STD-595 - Colors**

**MILITARY**

**MIL-STD-105 - Sampling Procedures and Tables for Inspection  
by Attributes**

**MIL-STD-129 - Marking for Shipment and Storage**

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

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

National Motor Freight Traffic Association, Inc., Agent

National Motor Freight Classification

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

**3. REQUIREMENTS**

\* 3.1 Specification sheets. The individual item requirements shall be as specified herein and in accordance with the applicable specification sheets. In the event of any conflict between requirements of this specification and the specification sheet, the latter shall govern.

MIL-B-43436C

3.2 Material. Band markers shall be fabricated of aluminum. Aluminum shall conform to alloy 1100, temper O or F of QQ-A-250/1 or alloy 3003, temper H 14-16 of QQ-A-250/2. The thickness of the aluminum shall be a minimum of 0.0126 (28 gage).

- \* 3.3 Construction. The band marker shall conform to the design, details, and dimensions shown on specification sheets listed in section 2, and specified herein. Except as otherwise specified, tolerances shall be  $\pm 1/32$  inch for fractions and whole numbers, or  $\pm 0.015$  inch for decimals.
- \* 3.4 Finish. Unless otherwise specified in the specification sheets, the band markers shall have a smooth, clean, natural aluminum finish. Colors for colored markers shall conform to FED-STD-595.
- \* 3.5 Workmanship. The band markers shall be clean and smooth and shall have no cracks, burrs, sharp edges, cuts, tears, holes, nicks, scratches, stains, streaks or lumps. Colored markers shall show no evidence of cracking, crazing, or peeling when tested as specified in 4.3.1.

#### 4. QUALITY ASSURANCE PROVISIONS

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

4.2 Quality conformance inspection. Except as otherwise specified herein, sampling for inspection shall be performed in accordance with the provisions set forth in MIL-STD-105.

4.2.1 Component and material inspection. In accordance with 4.1 above, components and materials shall be inspected and tested in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document.

4.2.2 End item inspection. The inspection lot shall consist of all band markers of the same part number offered for inspection at one time. The sample unit shall be one complete band marker.

MIL-B-43436C

4.2.2.1 Visual examination. The band markers shall be examined for defects in table I. The inspection level shall be II, with an acceptable quality level (AQL) of 2.5 for major defects and 6.5 for total defects, expressed in terms of defects per hundred units.

TABLE I. Classification of defects

Examination	Defect	Classification	
		Major	Minor
Finish	Not specified color or colors, when applicable	X	
	Not natural aluminum finish, when applicable	X	
Workmanship	Any tear, cut, hole, crack, scratch or crease		X
	Any stain, streak, or lump		X
	Sharp edge	X	
	Edge nicked, burred, or uneven		X

4.2.2.2 Dimensional examination. Examination shall be made for compliance with specified dimensions. Any dimension not as specified shall be a defect. The inspection level shall be S-4 with an AQL of 4.0 defects, expressed in terms of defects per hundred units.

4.2.2.3 End item testing. Colored band markers shall be tested as specified in 4.3.1. Sample unit shall be one completely fabricated band. The inspection level shall be S-2 with an AQL of 2.5 defects, expressed in terms of defects per hundred units.

4.2.3 Examination of packaging. An examination shall be made to determine that packaging, packing and marking, as required by section 5 are complied with. Defects shall be as indicated in table II. The sample unit shall be one shipping container fully prepared for delivery, except that it need not be sealed. The lot shall be the number of containers offered for inspection at one time. The inspection level shall be S-2 with an AQL of 4.0, expressed in terms of defects per hundred units.

TABLE II. Examination of packaging

Examine	Defect
Markings	Omitted; incorrect; illegible; of improper size, location, sequence or method of application
Materials	Any component missing, damaged or otherwise defective

TABLE II. Examination of packaging (cont'd)

Examine	Defect
Workmanship	Inadequate application of components such as: incomplete closure of container flap, loose strapping, improper taping, inadequate stapling Bulged or distorted container
Contents	Quantity per container more or less than required Weight of shipping container content exceeds 65 pounds

#### 4.3 Tests.

4.3.1 Finish test. The colored band marker shall be bent back upon itself 180°. The bend shall be made between the thumb and forefinger across the longitudinal axis of the band marker. The band marker shall then be examined to determine compliance with 3.5. Any cracking, crazing, or peeling of the finish shall constitute a defect.

### \* 5. PACKAGING

\* 5.1 Preservation-packaging. Preservation-packaging shall be level A or C as specified (see 6.2).

\* 5.1.1 Level A. One thousand band markers of one description only, shall be packaged in a snug-fitting folding, setup, or metal-stayed paperboard box conforming to variety 1, style III, type G, class 1, or style IV, type V, class 1 of PPP-B-566; or type I, variety 1, class A, style 3 or 4 of PPP-B-676; or class 1, style A of PPP-B-665, respectively. Closure shall be in accordance with the applicable box specification or appendix thereto.

\* 5.1.2 Level C. Band markers shall be packaged to afford adequate protection against damage during shipment from the supply source to the first receiving activity. The contractor may use his standard practice when it meets this requirement.

\* 5.2 Packing. Packing shall be level A, B, or C as specified (see 6.2).

MIL-B-43436C

\* 5.2.1 Level A packing. Band markers of one description only, preserved-packaged as specified in 5.1, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC, V2s of PPP-B-636. Each fiberboard shipping container shall be closed in accordance with method III, waterproofed in accordance with method V, and reinforced in accordance with the appendix of PPP-B-636. The weight of contents shall not exceed 65 pounds.

\* 5.2.2 Level B packing. Band markers of one description only, preserved-packaged as specified in 5.1, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC type CF, variety SW, or type SF, class domestic of PPP-B-636. Closure shall be in accordance with method II of the appendix of PPP-B-636. The weight of contents shall not exceed 65 pounds. When specified (see 6.2), the shipping container shall be a grade V3c, V3s, or V4s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with method III as specified in the appendix of the container specification.

5.2.3 Level C packing. Band markers, preserved-packaged as specified in 5.1, shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. Containers and packing shall comply with Uniform Freight Classification or National Motor Freight Classification, as applicable.

5.3 Marking. In addition to any special marking required by the contract or order, interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

## 6. NOTES

6.1 Intended use. Band markers are for use in identifying pipes, hoses, wires, tube liners, cables, conduits and leads. Markers covered by MIL-B-43436/2 are designed for use on cable with diameter range of 0.150 to 0.300 inch range. Markers covered by MIL-B-43436/3 are designed for use on cable with diameter range of 0.125 to 0.220 inch range.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Part number required (see specification sheet).
- (c) Selection of the applicable levels of packaging and packing (see 5.1 and 5.2).
- (d) When V-board shipping containers are required for level B shipment (see 5.2.2).

MIL-B-43436C

6.3 Classification comparison. MIL-B-43436B and MS 39020C have been incorporated in this revision as follows:

MIL-B-43436B	MIL-B-43436C
Style 1	MIL-B-43436/1
Style 1A	MIL-B-43436/3
Style 1B	MIL-B-43436/2
Style 2	MIL-B-43436/4
Style 3	MIL-B-43436/5

Part numbers:

MS 39020	MIL-B-43436C	MS 39020	MIL-B-43436C
-1	M43436/1-1	-21	M43436/1-11
-1A	M43436/3-1	-23	M43436/1-12
-1B	M43436/2-1	-24	M43436/1-13
-2	M43436/1-2	-26	M43436/1-14
-3	M43436/1-3	-27	M43436/1-15
-4	M43436/1-4	-28	M43436/4-1
-7	M43436/1-5	-29	M43436/4-2
-10	M43436/1-6	-31	M43436/5-1
-11	M43436/1-7	-32	M43436/5-2
-13	M43436/1-8		
-19	M43436/1-9		
-20	M43436/1-10		

6.4 Changes from the previous issue. The margins of this specification are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Army - GL  
Navy - YD  
Air Force - 84

Preparing activity:

Army - GL  
Project No. 9905-0232

Review activities:

Army - AT, AV

User activities:

Army - WC, ME  
Navy - MC, OS

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# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER

MIL-B-43436C

2. DOCUMENT TITLE

Band Markers, Blank, General Specification For

3a. NAME OF SUBMITTING ORGANIZATION

4. TYPE OF ORGANIZATION (Mark one)

VENDOR

USER

MANUFACTURER

OTHER (Specify).

b. ADDRESS (Street, City, State, ZIP Code)

5. PROBLEM AREAS

a. Paragraph Number and Wording

b. Recommended Wording

c. Reason/Rationale for Recommendation

6. REMARKS

7a. NAME OF SUBMITTER (Last, First, MI) - Optional

c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional

b. WORK TELEPHONE NUMBER (Include Area Code) - Optional

8. DATE OF SUBMISSION (YYMMDD)

(TO DETACH THIS FORM, CUT ALONG THIS LINE.)



