

MIL-B-117F  
30 June 1988  
SUPERSEDING  
MIL-B-117E  
17 June 1974

MILITARY SPECIFICATION  
BAGS, SLEEVES AND TUBING

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

1. SCOPE

1.1 Scope. This document covers heat sealable, packaging bags, sleeves, and tubing required by the Military Services for the protection of supplies during transportation and storage under all climatic conditions.

\* 1.2 Classification. Bags, sleeves, and tubing shall be of the following types, classes, and styles.

Type I	- Heavy duty
Type II	- Medium duty
Type III	- Light duty
Class A	- Waterproof, electrostatic free
Class B	- Waterproof
Class C	- Waterproof, greaseproof
Class E	- Watervaporproof, greaseproof
Class F	- Watervaporproof, electrostatic free
Class G	- Watervaporproof, greaseproof, flame resistant

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5014 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8105

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## MIL-B-117F

- Style 1 - Opaque  
 Style 2 - Transparent  
 Style 3 - One side opaque, other side transparent

1.2.1 Sizes. Bags, sleeves, and tubing shall be of the size specified in the contract or purchase order (see 6.2).

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

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

## SPECIFICATIONS

## FEDERAL

- L-P-378 - Plastic Sheet and Strip, Thin Gauge, Polyolefin  
 PPP-B-601 - Boxes, Wood, Cleated-Plywood  
 PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner  
 PPP-B-636 - Boxes, Shipping, Fiberboard  
 PPP-B-640 - Boxes, Fiberboard, Corrugated, Triple-Wall  
 PPP-B-1055 - Barrier Material, Waterproofed, Flexible  
 PPP-T-60 - Tape, Packaging Waterproof

## MILITARY

- MIL-P-116 - Preservation, Methods Of  
 MIL-B-121 - Barrier Material, Greaseproofed, Waterproofed, Flexible  
 MIL-B-131 - Barrier Materials, Watervaporproof, Greaseproof, Flexible, Heat-Sealable  
 MIL-B-22191 - Barrier Materials, Transparent, Flexible, Heat-Sealable  
 MIL-B-81705 - Barrier Materials, Flexible, Electrostatic-Free, Heat Sealable  
 MIL-B-81916 - Barrier Material, Watervaporproof, Flexible, Heat Sealable, Flame Resistant

## MIL-B-117F

## STANDARDS

## MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes
- MIL-STD-129 - Marking for Shipment and Storage
- MIL-STD-147 - Palletized Unit Loads
- MIL-STD-731 - Quality of Wood Members for Containers and Pallets

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

- \* 2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted shall be those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS shall be the issues of the nongovernment documents which are current on the date of the solicitation.

## AMERICAN SOCIETY FOR TESTING AND MATERIALS

## D 3951 - Standard Practice for Commercial Packaging

(Copies should be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1187.)

(Nongovernment standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational services.)

- \* 2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

## 3. REQUIREMENTS

- \* 3.1 First article. When specified in the contract or purchase order, a sample shall be subjected to first article inspection (see 4.3, 6.2, and 6.3).
- \* 3.2 Material. Materials shall conform to the types, grades, and classes specified in table I.

## MIL-B-117F

TABLE I. Classification of materials

MIL-B-117			Material reference document			
Type	Class	Style	Document	Type	Grade	Class
I	A	2	MIL-B-81705	II	-	1
I	B	1	MIL-B-121	I	A	1
II	B	1	MIL-B-121	II	A	1
III	B	1	MIL-B-121	II	A	1
I	B	2	MIL-B-22191 L-P-378 1/	III I or II	- A	- 1 2/
I	B	3	MIL-B-121 MIL-B-22191	I III	A -	1 -
I	C	1	MIL-B-121	I	A	1
II	C	1	MIL-B-121	II	A	1
I	C	2	MIL-B-22191	II	-	-
I	C	3	MIL-B-121 MIL-B-22191	I II	A -	1 -
I	E	1	MIL-B-131	I	-	1
I	E	2	MIL-B-22191	I	-	-
II	E	1	MIL-B-131	I	-	3
III	E	1	MIL-B-131	I	-	2
I	E	3	MIL-B-131 MIL-B-22191	I I	- -	1 -
II	E	3	MIL-B-131 MIL-B-22191	I I	- -	3 -
I	F	1	MIL-B-81705	I	-	1
I	G	1	MIL-B-81916	-	-	-

## MIL-B-117F

- 1/ Unless otherwise specified (see 6.2), nominal thickness shall be 0.004 inches (see 6.1.8).
- 2/ Finish shall be No. 2 (treated).

### 3.3 Construction.

\* 3.3.1 Bags. Class B, C, E, and G bags shall be formed using two sheets of material. Class A and F bags shall be formed by folding one sheet of material. Heat sealable surfaces of the specified material shall be placed face to face, heat sealing along both sides and the bottom edge. Transparent bags fabricated by the side weld process shall be folded and have two side seams. The side seams shall be parallel to each other and to the outer edge of the bag. The bottom seam shall be at right angle to the side seam. When specified (see 6.2), bags 12 inches or less in length, with a mouth opening of 10 inches or less, shall be provided with a lip by extending one edge of the mouth  $1/8$  inch ( $\pm 1/16$  inch) beyond and parallel to the outer edge. The length of the lip shall not be included in the dimensions of the bag. Bags fabricated from sleeves or tubing shall consist of a bottom seam and do not require a lip.

\* 3.3.1.1 Notched bags. When specified (see 6.2), bags shall have a tear, nick, or V-notch,  $1/8$  inch deep ( $\pm 1/16$  inch) in one edge 1 inch to 1-1/4 inches from the open (unsealed) end of the bag. The tear, nick, or V-notch shall not reduce the heat seal width. The legend "TEAR HERE TO OPEN" with an arrow pointing to the tear, nick, or V-notch shall be printed on the bag with lettering a minimum of  $1/8$  inch in height.

3.3.2 Sleeves or tubing. Sleeves fabricated from either transparent plastic sheet, opaque materials, or a combination of both shall be formed by bonding two continuous sheets or folding one continuous sheet, placing the heat sealable surfaces of the specified material together, and heat sealing a seam along the entire length of both edges. The side seams shall be parallel to each other and the outer edge of the sleeve. Tubing fabricated from transparent plastic sheet by the extruding process requires no seams.

\* 3.4 Dimensions and tolerances. The length and width of bags, sleeves, and tubing shall be specified in the contract or purchase order (see 6.2). The width shall be measured from the inside edges of the side seams. The length shall be measured from the inside edge of the bottom seam to the edge of the opening (exclusive of lip). The tolerances for the length and width shall be as indicated in table II. The minimum heat seal widths shall be as indicated in table II.

## MIL-B-117F

TABLE II. Dimensions and tolerances

Area of bag (one side)	Bag length and width tolerances (inches)	Minimum heat seal width (inches) <u>1/</u>
25 sq in or less	-1/16, +1/8	3/8
26 thru 200 sq in	-1/8, +1/4	1/2
201 thru 500 sq in	-1/4, +3/8	5/8
501 sq in or over	-1/4, +1/2	5/8

1/ Seams fabricated by the dielectric, impulse, or ultra-sonic process shall have a minimum 1/32-inch heat seal. Seams fabricated from unsupported plastic sheet (i.e., polyethylene or polyolefin) shall be required to meet the seam strength test specified in 3.5 with no minimum seam width required.

3.5 Seam requirements. All classes of bags and sleeves shall be capable of passing the vacuum chamber or submersion leakage tests and the heat sealed seam test of MIL-P-116.

### 3.6 Identification.

3.6.1 Bags, sleeves, and tubing. Each bag shall be marked or printed with an arrow pointing to the unsealed edge as an indication that the final closure is to be made at this edge. Sleeves shall be marked or printed in a manner to indicate the edges where final closures are to be made. In addition, each bag, sleeve, or roll of tubing shall be marked or printed in capital letters or numbers, approximately 10-point type, with the following information: bag document number and revision letter; type, class, and style; bag fabricator's name or trade mark; material designation; month and year of fabrication. For bags, sleeves, and tubing, the material designation shall consist of the barrier material manufacturer's code designation, as listed in the applicable Qualified Products List. The color and position of this printing shall be optional, except that it shall appear at least once on one surface only for bags and at least once every 12-inch length of sleeve or tubing material on one side only.

\* 3.6.1.1 Type I, class A, style 2. Bags, sleeves, and tubing as specified in MIL-B-81705, type II, need not be printed, but shall have an identification sheet accompanying each unit package or roll of tubing or sleeve material. Identification sheets shall be marked or printed with the following information: bag document number and revision letter; type, class, and style; bag fabricator's name or trademark; material designation; month and year of fabrication. For bags, sleeves, and tubing, the material designation shall

## MIL-B-117F

consist of the barrier material manufacturer's code identification, as listed in the applicable Qualified Products List. When specified (see 6.2), appropriate pressure sensitive labels may be applied to outer surfaces.

\* 3.6.2 Sealing recommendation. Each unit package or individual roll of sleeve or tubing material (see 5.1.1.1 and 5.1.1.2) shall include a slip sheet with the following information legibly marked thereon:

- a. Jaw type sealer (temperature, pressure, and dwell).
- b. Band type sealer (temperature, pressure, and dwell).
- c. Rotary type sealer (preheat, pressure, and speed).

3.7 Workmanship. Bags, sleeves, and tubing shall be uniformly constructed, free from pinholes, tears, cuts, splits, slits, creases, wrinkles, folds or other imperfections which might impair their usefulness. There shall be no blocking to the extent that will cause tearing of material or injury to the surface when opened.

#### 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 purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this document where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

\* 4.1.1 Responsibility for compliance. All items must meet all requirements of sections 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 requirement in the document shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

\* 4.1.2 Responsibility for dimensional requirements. Unless otherwise specified in the contract or purchase order, the contractor is responsible for assuring that all specified dimensions have been met. When dimensions cannot be examined on the end item, inspection shall be made at any point or at all points in the manufacturing process necessary to assure compliance with all dimensional requirements.

## MIL-B-117F

- \* 4.1.3 Certificates of compliance. When certificates of compliance are submitted, the Government reserves the right to inspect such items to determine the validity of the certification.
- \* 4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:
- a. First article inspection (see 4.3).
  - b. Quality conformance inspection (see 4.4).
- \* 4.3 First article inspection. When a first article is required (see 6.2), it shall be examined for the defects specified in table III, the dimensions in 3.3, and the sealed seams tested as specified in 4.4.4. The presence of any defect or failure to pass any test shall be cause for rejection of the first article.
- 4.4 Quality conformance inspection. Unless otherwise specified, sampling for inspection shall be performed in accordance with MIL-STD-105.
- 4.4.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced documents unless otherwise excluded, amended, modified, or qualified in this document or applicable purchase document.
- \* 4.4.1.1 Certification. The manufacturer shall submit a certificate of compliance that the materials used are as specified in table I.
- \* 4.4.2 End item visual examination. The end items shall be examined for the defects listed in table III. The lot size shall be expressed in units of bags, sleeves, or tubing of one classification, as applicable. The sample unit shall be one bag, sleeve, or roll of tubing. The inspection level shall be I and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5 for major defects and 4.0 for minor defects.

TABLE III. End item visual defects

Examine	Defect	Classification	
		Major	Minor
Material	Not as specified	X	
Construction	Not formed using two sheets (classes B, C, E, and G) or by folding one sheet of material (classes A and F)		X



## MIL-B-117F

TABLE III. End item visual defects - (cont'd)

Examine	Defect	Classification	
		Major	Minor
Construction (cont'd)	Heat sealing not as specified	X	
	Lip not provided, when applicable	X	
	Tear, nick, or V-notch not provided when specified	X	
Identification marking	Not as specified (see 3.6.1)		X
Workmanship	Not uniformly constructed		X
	Pinholes, tears, cuts, splits, creases, wrinkles, folds, or other imperfections that impair usefulness		X
	Blocking that causes tearing of material or injury to surface when opened		X

\* 4.4.3 End item dimensional examination. The end items shall be examined for the dimensions specified in table II. Any dimension not within the specified tolerance shall be classified as a defect. The lot size shall be expressed in units of bags, sleeves, or tubing of one classification, as applicable. The sample unit shall be one bag, sleeve, or roll of tubing, as applicable. The inspection level shall be I and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

\* 4.4.4 End item testing. The seams of bags and sleeves shall be tested as specified in 4.5.1. The lot size shall be expressed in units of bags or sleeves of one classification, as applicable. The sample unit shall be one bag or sleeve, as applicable. The inspection level shall be S-4 and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

\* 4.4.5 Packaging examination. The end items shall be examined for the defects listed below. The sample unit shall be one shipping container fully packaged. The lot size shall be the number of shipping containers in the inspection lot. The inspection level shall be S-2 and the AQL, expressed in terms of defects per hundred units, shall be 4.0.

## MIL-B-117F

<u>Examine</u>	<u>Defect</u>
Preservation	Preservation level not as specified (5.1) Not packed in units of multiples specified (5.1.1.1 or 5.1.1.2) Sleeve material not wound on substantial core (5.1.1.2) Unit packs not packed as specified (5.1.1 and 5.1.2) Mixed types, classes, styles, or sizes in same unit pack (5.1.1.1) Unit containers, when required, not snugly packed; contain fillers or waste space Packaging material not as specified; closures not accomplished by specified or required methods or materials (5.1.1.1 or 5.1.1.2)
Packing	Packing levels not as specified (5.2) Mixed types, classes, styles, or sizes packed in same container Container not as specified; closure not in accordance with the appendix to the applicable container document Tension too great (i.e., strapping tears or cuts through facing of containers)
Marking	Unit packs do not contain sealing recommendations (3.6.2) Unit and exterior container markings (as applicable) illegible, incorrect, incomplete, omitted, or not as specified (5.4)

- \* 4.4.6 Palletization examination. The fully packaged and palletized end items shall be examined for the defects listed below. The lot size shall be expressed in units of palletized unit loads. The sample unit shall be one palletized unit load, fully packaged. The inspection level shall be S-1 and the AQL, expressed in terms of defects per hundred units, shall be 6.5.

<u>Examine</u>	<u>Defect</u>
Finished dimensions	Length, width, or height exceeds specified maximum requirement
Palletization	Pallet pattern not as specified Load not bonded as specified
Weight	Exceeds maximum load limits
Marking	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application

## MIL-B-117F

4.5 Methods of inspection.

- \* 4.5.1 Seam testing. Seams shall be tested in accordance with the seam test in MIL-P-116. When the material samples are of such size as to prohibit conducting the specified tests satisfactorily, the following procedures shall prevail. Cut a 6 by 8 inch section from the sample to be tested in such a manner that at least two of the fabricator's seals shall be included. Heat seal the remaining open unsealed edges in accordance with recommended procedures. The heat seal seam shall be uniform and continuous, of 3/8 inch width, and shall be free of pipes or channels. This procedure also applies to sleeves, in which case at least one of the fabricator's seals shall be included. An optional method for sleeves is by fabricating from the sleeve material a bag equal in length to the width of the sleeve. The sealed bag or sleeve shall contain shredded paper or other material to provide for entrapment of air.

## 5. PACKAGING

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

5.1.1 Level A.

5.1.1.1 Bags. Bags of the same type, class, style, and size shall be unit packed by Method III of MIL-P-116, in increments of 50 not to exceed 500 (see 6.2) in a fiberboard box conforming to class WR of PPP-B-636. Unless otherwise specified (see 6.2), bags shall be packed flat. Bags of extra large size may be folded, provided dunnage material is placed at the line of folds to prevent damage. The sealing recommendations sheet (see 3.6.2) shall be inserted in each unit pack. Container closure shall be in accordance with the appendix to PPP-B-636.

5.1.1.2 Sleeves and tubing. Unless otherwise specified (see 6.2), sleeve or tubing material shall be unit packed as specified in 5.1.1.1 or wound on a substantial core, with a minimum inside diameter of 3 inches, into rolls of the length and width specified (see 6.2) but not exceeding 200 yards in length. The rolls may be packed singly or the smaller rolls in multiples of two, on edge, in a fiberboard box conforming to class WR of PPP-B-636. Closure shall be in accordance with the appendix to PPP-B-636. Rolls of sleeve or tubing material exceeding 40 pounds shall be wrapped in paper, conforming to class C-1 of PPP-B-1055 and all seams and joints shall be sealed with pressure-sensitive tape conforming to type III of PPP-T-60. The sealing recommendation sheet (see 3.6.2) shall be inserted in each unit pack.

- \* 5.1.2 Commercial. Bags, sleeves, and tubing shall be preserved in accordance with ASTM D 3951.

## MIL-B-117F

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

5.2.1 Level A packing. Bags, sleeves, and tubing of one type, class, style and size, preserved as specified in 5.1, shall be packed in containers conforming to PPP-B-601, overseas type or PPP-B-621, class 2. Closure shall be in accordance with the appendix to the applicable container document.

5.2.2 Level B packing. Bags, sleeves, and tubing of one type, class, style and size, preserved as specified in 5.1, shall be packed in containers conforming to PPP-B-636, class WR; PPP-B-640, class 2; or PPP-B-621, class 1. Closure shall be in accordance with the appendix to the applicable container document.

- \* 5.2.3 Commercial packing. Bags, sleeves, and tubing, preserved as specified in 5.1, shall be packed in accordance with ASTM D 3951.

- \* 5.3 Palletization. When specified (see 6.2), bags, sleeves and tubing, packed as specified in 5.2.1, 5.2.2 and 5.2.3, shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147. Pallet type shall be type I (4-way entry), type IV or type V in accordance with MIL-STD-147. Pallets shall be fabricated from wood groups I, II, III, or IV of MIL-STD-731. Each prepared load shall be bonded with primary and secondary straps in accordance with bonding means K and L or film bonding means O or P.

5.4 Marking. In addition to any special marking required by the contract or purchase order (see 6.2), unit packs, shipping containers, and palletized unit loads shall be marked in accordance with MIL-STD-129 or ASTM D 3951, as applicable and as follows:

Specification MIL-B-117  
(including latest revision and amendment)

Type, class, and style (as applicable)

Size

Month and year of fabrication

## 6. NOTES

6.1 Intended use. The bags, sleeves, and tubing are intended for use as containers to provide various degrees of protection to the contents. Transparent bags are intended for use where transparency is desired to facilitate visual inspection of the enclosed product. For the purpose of permitting the maintenance of stocks of bags for quick shipment, common stock sizes are listed in table IV.

## MIL-B-117F

TABLE IV. Common stock sizes

Size designation	Inside dimension (inches) (W x L)
1	2-1/2 by 3
2	2-1/2 by 6
3	3 by 5
4	4 by 6
5	4 by 8
6	4 by 12
7	6 by 6
8	6 by 8
9	8 by 12
10	10 by 10
11	10 by 13
12	10 by 12
13	12 by 12

\* 6.1.1 Class A bags and sleeves. Class A bags and sleeves are designed for critical items that require protection against the buildup or retention of electrostatic potential in addition to protection against water penetration and are equivalent to the protection offered by submethod IC-3 of MIL-P-116.

6.1.2 Class B bags and sleeves. Class B bags and sleeves are designed as unit packages for items requiring waterproof protection and are equivalent to the protection offered by submethod IC-3 of MIL-P-116.

6.1.3 Class C bags and sleeves. Class C bags and sleeves are designed as unit packages for items that require greaseproof protection in addition to waterproof protection and are equivalent to the protection offered by submethod IC-1 of MIL-P-116.

6.1.4 Class E bags and sleeves. Class E bags and sleeves are designed as unit packages for critical items that require general protection against water vapor penetration in addition to waterproof and greaseproof protection and are equivalent to the protection offered by submethods IA-8 and IIc of MIL-P-116.

6.1.5 Class F bags and sleeves. Class F bags and sleeves are designed for critical items that require protection against the buildup or retention of electrostatic potential in addition to protection against water and water vapor and are equivalent to the protection offered by submethods IA-8 and IIc of MIL-P-116.

## MIL-B-117F

6.1.6 Class G bags and sleeves. Class G bags and sleeves are designed for critical items that require flame resistance in addition to protection against water, water vapor, and grease penetration and are equivalent to the protection offered by submethods IA-8 and IIc of MIL-P-116.

6.1.7 Size limitations. Size of bags is unrestricted with the following exceptions:

- a. Type III, class E, style 1 - 450 square inches; maximum product of inside width times inside depth.
- b. Type II, class C, style 1 - 50 square inches; maximum product of inside width times inside depth.

\* 6.1.8 Weight limitations. Net weight of contents should not exceed 10 pounds except that there are no weight restrictions for the following bags:

<u>Type</u>	<u>Class</u>	<u>Style</u>
I	B	2 1/
I	C	2
I	E	1, 2, 3
I	F	1
I	G	1

1/ When using L-P-378, the following applies:

<u>Nominal thickness</u> (inches)	<u>Weight limitation</u> (pounds)
0.004	up to 5
0.006	over 5

\* 6.2 Ordering data. Acquisition documents should specify the following:

- a. Title, number, and date of this document.
- b. Type, class, and style of bags, sleeves, or tubing, as applicable (see 1.2).
- c. Size of bags, sleeves, or tubing (inside dimensions) (see 1.2.1 and 3.4).
- d. When a first article is required (see 3.1, 4.3, and 6.3).
- e. Nominal thickness of L-P-378, if different (see 3.2).
- f. Lip requirement, when required (see 3.3.1).
- g. Tear, nick, or V notch, when required (see 3.3.1.1).
- h. When pressure-sensitive labels may be applied (see 3.6.1.1).
- i. Level of preservation and packing required (see 5.1 and 5.2).
- j. Quantity of bags, sleeves, and tubing per unit package (see 5.1.1.1 and 5.1.1.2).

## MIL-B-117F

- k. Preservation of bags, if different (see 5.1.1.1).
- l. Preservation of sleeves and tubing, if different (see 5.1.1.2).
- m. When palletization is required (see 5.3).
- n. Special markings, as applicable (see 5.4).

\* 6.3 First article. When a first article is required, it shall be inspected and approved under the appropriate provisions of FAR 52.209. The first article should be a preproduction sample. The contracting officer should specify the appropriate type of first article and the number of units to be furnished. The contracting officer should include specific instructions in all acquisition instruments regarding arrangements for selection, inspection, and approval of the first article.

\* 6.4 Subject term (key word) listing.

Bags  
Containers, protective  
Packaging  
Sleeves  
Tubing

6.5 Changes from previous issue. The margins of this document 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, as written, irrespective of the marginal notations and relationship to the last previous issue.

## Custodians:

Army - GL  
Navy - SA  
Air Force - 69

## Preparing activity:

Army - GL  
Project No. 8105-0321

## Review activities:

Army - AR, AT, MI, SM, EA, AV  
Navy - OS, SH, YD

## User activity:

Navy - MC

## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER  
MIL-B-117F2. DOCUMENT TITLE  
Bags, Sleeves And Tubing - Interior Packaging

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, All) - Optional

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

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

8. DATE OF SUBMISSION (YYMMDD)