

**U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE**

**SPECIFICATION**

**BAG, FUEL BOTTLE**

1. SCOPE

1.1 Scope. This specification covers the requirements for a bag to hold 6 one liter fuel bottles.

2. APPLICABLE DOCUMENTS

2.1 Government documents. The following government 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:

2.1.1 Government specifications and standards.

SPECIFICATIONS

FEDERAL

A-A-55301 - Webbing, Textile, Textured or Multifilament Nylon  
A-A-55634 - Zippers (Interlocking Slide Fasteners)  
V-T-295 - Thread, Nylon

MILITARY

MIL-DTL-32075 - Label: For Clothing, Equipage, and Tentage (General Use)

USDA FOREST SERVICE

5100-86 - Cloth, Duck, Nylon (Polyurethane Coated)

STANDARDS

FEDERAL

FED-STD-123 - Marking for Shipment (Civil Agencies)

Beneficial comments (recommendations, additions, deletions) and any pertinent data that may be used in improving this document should be addressed to: USDA Forest Service, Missoula Technology and Development Center, 5785 Highway 10 West, Missoula, MT 59808, by using the Specification Comment Sheet at the end of this document or by letter.

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(Unless otherwise indicated, copies of federal and military specifications and standards are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Ave., Philadelphia, PA 19111-5094. Copies of Forest Service documents are available from USDA Forest Service, Missoula Technology and Development Center, 5785 Highway 10 West, Missoula, MT 59808.)

2.1.2 Government drawings. The following form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those in effect on the date of the solicitation or agreement.

### DRAWINGS

#### USDA FOREST SERVICE

MTDC-1009 - Bag, Fuel Bottle

(Copies are available from the USDA Forest Service, Missoula Technology and Development Center, 5785 Highway 10 West, Missoula, MT 59808.)

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those in effect on the date of the solicitation or agreement.

#### AMERICAN SOCIETY FOR QUALITY CONTROL (ASQC)

ANSI/ASQC Z1.4 - Sampling Procedures and Tables for Inspection By Attributes

(Copies are available from the American Society for Quality Control, 611 East Wisconsin Ave., Milwaukee, WI 53202.)

#### ASTM

D 1974 - Standard Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Shipping Containers

D 3951 - Standard Practice for Commercial Packaging

D 5118 - Standard Practice for Fabrication of Fiberboard Shipping Boxes

D 6193 - Standard Practice for Stitches and Seams

SI-10 - Standard For Use of the International System of Units (SI): The Modern Metric System (IEEE/ASTM Standard available from ASTM)

(Copies are available from ASTM International, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959.)

#### NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC., AGENT

National Motor Freight Classification

(Copies are available from the American Trucking Associations, Inc., 2200 Mill Rd., Alexandria, VA 22314.)

(Non-Government standards and other publications normally are available from the organizations that prepare and 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 conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

3.1 First article. Unless otherwise specified (see 6.2), samples shall be subjected to first article inspection (see 6.4) in accordance with 4.3.

3.2 Materials and components. Materials and components shall be as specified herein and in the referenced drawing, MTDC-1009.

3.2.1 Cloth, duck, nylon (polyurethane coated). The nylon duck shall conform to type II of Forest Service specification 5100-86 and shall be blue to match the standard shade sample (see 6.3).

3.2.2 Nylon webbing, 1 inch. The 1 inch webbing shall conform to type III or type III (alternate) of A-A-55301. The color shall be black.

3.2.3 Thread, nylon. The thread shall conform to type II, class A of V-T-295. The thread for all stitching shall be size FF except that size E may be used for bartacking and label attachment. The color for all thread shall be black.

3.2.4 Zipper. The zipper shall conform to type I, style 2 (nonlocking slider), size 9 of A-A-55634. The chain shall be polyester continuous coil configuration conforming to the following requirements.

3.2.4.1 Fastener chain. The diameter of the chain filament shall be 0.033 to 0.050 inch. The width of the chain when closed shall be 0.320 to 0.340 inch. The chain shall be sewn to the tapes. Color of the chain shall be black. All performance requirements governing the crosswise strength of the chain are not applicable except the crosswise breaking strength requirement, which shall be 175 pounds minimum. The crosswise breaking strength shall be performed as specified in A-A-55634 except the fastener shall be preconditioned.

3.2.4.2 Slide fastener tape. The slide fastener tape shall be  $3/4 \pm 1/16$  inch wide, color black, and shall be water repellent treated. The tape shall show good fastness to laundering.

3.2.4.3 Fastener slider and pull. The fasteners shall have sliders conforming to the standard long tab pull nonlocking type as specified in A-A-55634, but shall have a swivel type tab. The sliders shall properly fit the chain and shall be brass, aluminum, or other noncorroding metal. The color shall be black.

3.2.4.4 Slide fastener components. All components of the slide fasteners shall be manufactured by the same company to insure compatibility of components.

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3.2.5 Double-bar buckle, 1 inch. The 1 inch double-bar buckle shall conform to ITW Waterbury Trovato Ladderloc, part no. 154-0100; National Molding Corp. Tensionlock Buckle, part no. 4199; or American Cord & Webbing Double Bar Single Lock, part no. DB 1".

3.2.6 Identification label. The identification labels shall be a sewn-on coated cloth label conforming to type VI, class 5 of MIL-DTL-32075. The size of inscription characters shall be 1/4 -0/+1/16 inch. The contents shall dictate label size and shall be in the following format:

**BAG, FUEL BOTTLE**  
**8465-01-503-4476**  
**USFS Spec. 5100-613**  
**[CONTRACT NO.]<sup>1/</sup>**  
**[MANUFACTURER'S NAME]<sup>1/</sup>**  
**DATE OF MANUFACTURE: [mm/yy]<sup>1/</sup>**

**CLEANING**

**DIRT - LET DRY; REMOVE WITH STIFF BRISTLE BRUSH.**  
**LIGHT OIL - BRUSH WITH WARM WATER DETERGENT SOLUTION;  
RINSE THEN DRY.**  
**HEAVY OIL - DEGREASE WITH PERCHLOROETHYLENE; BRUSH  
WITH SPRAY CLEANERS OR DETERGENT AND WATER;  
RINSE THEN DRY.**

**DO NOT BLEACH!**

<sup>1/</sup> The contractor shall insert the applicable information indicated.

3.2.6.1 Label margins. The label shall be provided with a 1/4 ±1/16 inch blank margin on all four sides for sewing purposes.

3.2.6.2 Date of manufacture. The date of manufacture shall be the month and year the item is manufactured.

3.3 Construction. The construction shall conform in all respects to drawing MTDC-1009 and as specified herein.

3.3.1 Stitches, seams, and stitchings. All stitching, except bartacking, shall conform to type 301 of ASTM D 6193, 6 to 8 stitches per inch.

3.3.1.1 Type 301 stitching. Ends of all stitching shall be backstitched or overstitched not less than 1 inch except where ends are turned under or caught in other seams or stitching. Thread tension shall be maintained so there will be no loose stitching resulting in loose bobbin or top thread or excessively tight stitching resulting in puckering of the materials sewn. The lock shall be embedded in the materials sewn.

3.3.1.1.1 Repairs of type 301 stitching. Repairs of type 301 stitching shall be as follows (when making the following repairs, the ends of the stitching are not required to be backstitched):

- a. When thread breaks or bobbin runouts occur during stitching, except presewing, the stitching shall be repaired by restarting the stitching a minimum of 1 inch (1/2 inch for box-x) back of the end of the stitching.

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b. Except for prestitching, thread breaks or two or more consecutive skipped or runoff stitches noted during inspection of the item (inprocess or end item) shall be repaired by overstitching. The stitching shall start a minimum of 1 inch in back of the nonconforming area (1/2 inch on box-x), continue over the nonconforming area to a minimum of 1 inch into existing stitching. Loose or excessively tight stitching shall be repaired by removing the nonconforming stitching, without damaging the materials, and restitching in the required manner.

3.3.1.2 Bartacking. Bartacking shall be free from thread breaks and loose stitching. Unless otherwise specified, bartacks shall be as follows:

<u>Length</u>	<u>Width</u>	<u>Length Tolerance</u>	<u>Width Tolerance</u>	<u>Stitches Per Bartack</u>
3/4 inch	1/8 inch	±1/16 inch	±1/32 inch	42

3.3.1.3 Automatic stitching. Automatic machines may be used to perform any of the stitch patterns provided the requirements for the stitch pattern, stitches per inch, and size and type of thread are met; and at least three or more tying, overlapping, or backstitches are used to secure the ends of the stitching.

3.3.1.4 Thread ends. All thread ends shall be trimmed to 1/4 inch maximum length.

3.3.1.5 Lubrication of thread. There shall be no lubrication of the thread by any means, before or during sewing (see 4.3.2).

3.3.1.6 Stitching margins. Unless otherwise specified, all stitching margins shall be 1/8 inch.

3.3.2 Fusing ends of nylon webbing. All ends of webbing shall be fused before assembly for stitching, including bias cuts of webbing. The apparatus used to fuse webbing shall provide enough heat to create a smooth edge and with the cut ends of all webbing yarns fused together.

3.3.3 Location marks. Location marks may be drilled, providing the drill diameter does not exceed 0.076 inch (see 4.3.3). All drill holes shall be covered on the finished item. Printed markings shall not exceed 1/32 inch in width.

3.3.4 Repairs. Repairs such as mends, darns, patches, or splices are not permitted on the fuel bottle bag.

3.3.5 Piecing. With the exception of the reinforcements for the inner shoulder strap, carry strap, and chape, no piecing or splicing of components is allowed.

3.3.6 Replacement of nonconforming components. During the spreading, cutting, and manufacturing process, components having material nonconformities or damages that are classified as nonconformities in 4.3.4.1 and 4.3.4.2 shall be removed from production and replaced with conforming and properly matched components.

3.3.7 Coated cloth surface. The coated side of the cloth shall face the inside of the completed fuel bottle bag.

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3.4 Marking. Both side panels of the bag shall be marked with a flammable liquid label as shown in drawing MTDC-1009. The label shall be silk-screened on the fabric in red and white ink in accordance with type IV, class 9 of MIL-DTL-32075. Fastness of the class 9 marking shall be as specified for class 5 marking. The color of the cloth components shall not be visible under the markings.

3.5 Dimensions. Unless otherwise specified, all dimensions except pattern sizes are finished dimensions.

3.6 Patterns. The standard patterns showing size, shape, placement of components, and location lines for cutting, marking, and folding are shown on drawing MTDC-1009. The drawings provide allowances for seams and shall be used for making the working patterns. The patterns shall not be altered in any way. All parts shall be within 1/8 inch of the locations shown on the patterns.

3.7 Workmanship. All items shall conform to the quality of product established by this document. The occurrence of nonconformities shall not exceed the applicable acceptable quality levels. There shall be no nonconformities that affect use, appearance, or serviceability.

3.8 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch/pound units, provided they fall within the tolerances specified using conversion tables contained in the latest revision of IEEE/ASTM SI-10, and all other requirements of this specification are met.

3.9 Recovered materials. The contractor/offeror is encouraged to use recovered materials to the maximum extent possible in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

## 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 (examinations or tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his/her 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 specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of sections 3 and 5. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in this specification 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 conformance to requirements, however, this does not authorize submission of known nonconforming material, either indicated or actual, nor does it commit the Government to accept nonconforming material.

4.1.2 Responsibility for dimensional requirements. Unless otherwise specified in the contract or purchase order, the contractor is responsible for ensuring 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 ensure compliance with all dimensional requirements.

4.1.3 Certification of compliance. Unless otherwise specified, certificates of compliance supplied by the manufacturer of the item, component, or material, listing the specified test method and test results obtained, may be furnished in lieu of actual lot by lot testing performed by the contractor (see 4.3.2). When certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification.

4.2 Sampling for inspections and tests. Sampling for inspections and tests shall be made in accordance with ANSI/ASQC Z1.4. The inspection level and acceptable quality level (AQL) shall be as specified. All fuel bottle bags manufactured at one time shall be considered a lot for purposes of acceptance inspection and test. A sample unit shall be one complete fuel bottle bag.

4.3 Quality conformance inspections. Each end item lot shall be sampled and inspected as specified in 4.3.4.1 and 4.3.4.2. The packaging shall be inspected as specified in 4.4. Unless otherwise specified (see 6.2), the first articles submitted in accordance with 3.1 shall be inspected as specified in 4.3.4.1 and 4.3.4.2 except that packaging is not required when first articles are presented. The presence of any nonconformity or failure to pass any test shall be cause for rejection of the first article.

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

4.3.2 Certification. Unless otherwise specified (see 6.2), as part of first article presentations and lot inspections, it shall be acceptable for the contractor to provide certificates of compliance for all materials and components in lieu of lot by lot testing, except as specified in 4.3.2.1. In addition, when the contractor changes component or material suppliers, a new certification based on actual test results shall be required.

The following components shall be certified:

- Nylon duck cloth (3.2.1) (with test reports)
- 1 inch nylon webbing (3.2.2)
- Nylon thread (3.2.3)
- Zipper (3.2.4)
- 1 inch double bar buckle (3.2.5)
- Label (3.2.6)
- Marking (3.4)
- No thread lubricant (3.3.1.5)

All certificates of compliance shall include:

- Product description, including specification, type, class, and form when applicable
- Quantity purchased
- Date of manufacture
- Purchase source, address, and telephone number
- Purchase date
- Lot number traceable to materials used in production
- Contract number

4.3.2.1 Test values. The contractor shall provide actual test values for the polyurethane coated nylon duck cloth (3.2.1) for each new lot purchased. Such test reports, traceable to each lot used in production of the fuel bottle bag shall be maintained at the inspection point specified in the contract. Copies of these test reports shall be made available to the Government representative upon request.

4.3.3 In-process inspection. Inspection shall be made at any point or during any phase of the manufacturing process to determine whether cut lengths and location of assembled component parts are in accordance with specified requirements. Inspection shall be made to determine that holes drilled for location marking do not exceed 0.076 inch diameter and are placed in such a manner that each shall be covered in the finished item (3.3.3). Whenever nonconformance is noted, corrections shall be made to the parts affected and lot in process. Components that cannot be corrected shall be removed from production.

4.3.4 End item examination.

4.3.4.1 End item visual examination. The end items shall be examined for the nonconformities listed in table I on a lot by lot basis. The lot size shall be expressed in units of complete fuel bottle bags. The inspection level shall be I, and acceptable quality level (AQL), expressed in terms of nonconformities per hundred units, shall be 4.0 for major nonconformities and 15.0 for combined major and minor nonconformities. Unless otherwise specified, nonconformities shall be scored on an individual basis, i.e., each seam, each stitching end, each dimension, etc.

TABLE I. End item visual nonconformities

Examine	Nonconformity	Classification	
		Major	Minor
Nylon duck cloth	Not type specified	X	
	Any hole (except location marks), cut or tear	X	
	Any abrasion mark, smash, slub, broken or missing yarn, multiple float, or open place, clearly visible at normal inspection distance (3 feet)	X	
	Needle chew		X

NOTE: Needle holes visible as the result of broken or skipped stitching or stitching that has been removed shall not be considered as needle chews providing that the holes are spaced as in normal stitching.

(cont)

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TABLE I. End item visual nonconformities (continued)

Examine	Nonconformity	Classification		
		Major	Minor	
	Color not as specified	X		
	Shade bar, fine or coarse filling bar		X	
	Coating nonconforming or partially omitted		X	
Webbing	Size or type not as specified	X		
	Color not as specified	X		
	Any hole, cut, tear, or smash	X		
	Abrasion mark, slub, broken end, or pick		X	
	Cut ends not fused or not fused as specified	X		
	Not firmly and tightly woven	X		
	Edges frayed or scalloped	X		
	Multiple floats		X	
Slide fastener	Type, size, or color not as specified	X		
	Does not provide a smooth and secure closure full length of openings	X		
	Slider jams or fails to interlock chain scoops	X		
	Any portion of fastener broken, bent, missing, or not aligned making fastener unusable	X		
	Slide fastener tape not specified width	X		
	Slider not specified type	X		
	Slider not attached as specified	X		
	Chain not material or configuration specified	X		
	NOTE: Each slide fastener shall be fully closed and opened three times to determine whether fastener operates smoothly and provides a secure closure.			
		Length not as specified	X	
	Components not all manufactured by same company	X		
Thread	Type, class, or size not as specified	X		
	Any thread lubricated		X	
	Color not as specified		X	
Hardware, general	Any part broken, cracked, chipped, distorted, twisted, or out of shape	X		
	Any dirt or flash		X	
	Any deep scratch or gouge		X	
	Gates not trimmed		X	
	Surface not smooth		X	
	Any pit, void, crazing, air pocket, blister, or imbedded foreign matter that will affect serviceability	X		
	Evidence of spray or jetting marks	X		
	(cont)			

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TABLE I. End item visual nonconformities (continued)

Examine	Nonconformity	Classification	
		Major	Minor
Double bar buckle	Type, size, or color not as specified	X	
	Position upside down or incorrectly threaded on webbing		X
Open seam	1/2 inch or less		X
	More than 1/2 inch	X	
	NOTE: A seam shall be classified as open when one or more stitches joining a seam are broken or when two or more consecutive skipped stitches or run-offs occur. On double stitched seams, a seam shall be considered open when either one or both sides of the seam are open.		
Raw edge (on edge required to be finished)	More than 1/2 inch when securely caught in stitching		X
	NOTE: Raw edge not securely caught in stitching shall be classified as an open seam.		
Run-off (see open seam)			
Seams and stitch type	Seam or stitch type not as specified	X	
Stitch tension	Loose, resulting in loose bobbin or top thread	X	
	Excessively tight, resulting in puckering of material	X	
	NOTE: Nonconformities to be scored only when the condition exists for a continuous 4 inches or more, or in several areas with an accumulated distance of 8 inches or more. Applicable to individual seams.		
Stitches per inch	Up to two stitches less than minimum specified		X
	Three or more stitches less than minimum specified	X	
	Two or more stitches in excess of maximum specified	X	
	NOTE: Variation in the number of stitches per inch caused by the operator speeding up the machine and pulling the cloth in order to sew over heavy places or in turning corners shall be classified as follows:		

(cont)

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TABLE I. End item visual nonconformities (continued)

Examine	Nonconformity	Classification	
		Major	Minor
	(a) Within the minor nonconformities classification - no nonconformities (b) Within the major nonconformities classification - minor nonconformities Nonconformities to be scored only when condition exists on any one seam for a length of 6 inches or more or when the combined length of several areas exceeds 10 inches.		
Stitching margin (not otherwise classified)	Exceeds specified tolerance, up to 1/16 inch	X	
	Exceeds specified tolerance, over 1/16 inch	X	
	NOTE: Nonconformities to be scored only when the condition exists for 4 inches or more or in several areas with an accumulated distance of 8 inches or more. Applicable to individual seams.		
Stitching gauge	Not as specified	X	
Stitching ends	Not secured as specified	X	
Thread breaks, skipped stitches, or run-offs (unless otherwise classified herein)	Not overstitched as specified	X	
	NOTE: Thread breaks or two or more consecutive skipped stitches or run-offs not overstitched shall be classified as open seams.		
Rows of stitching	Any row missing except on box-x stitching	X	
	On box-x stitching: - One row of stitching omitted - Two or more rows of stitching omitted	X	X
Automatic stitching	Stitching ends not backstitched patterns as specified, i.e., less than three tying, overlapping, or backstitches	X	
Components and assembly	Any component part omitted or not as specified or any operation omitted or not as specified (unless otherwise classified herein)	X	
	Needle chews	X	
	Any mend, darn, patch, splice, or other unauthorized repair	X	
	Any material pleated or caught in stitch line where not specified		X
(cont)			

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TABLE I. End item visual nonconformities (continued)

Examine	Nonconformity	Classification	
		Major	Minor
Piecing	Any piecing or splicing except as specified	X	
Cleanness	Grease, oil, dirt, ink, or other stains clearly noticeable	X	
	Thread ends not trimmed to 1/4 inch or less	X	
Identification and cleaning label	Type or class not as specified	X	
	Incorrect type size or information	X	
	Not in location specified	X	
	Incorrect label margins	X	
Location markings	Drill mark exceeding size specified	X	
	Drill mark not covered on finished item		X
	Printed marking more than 1/32 inch in width or not covered by component part	X	
Marking: "Flammable Liquid"	Omitted, incorrect, illegible, misplaced, or size of characters not as specified	X	
	Type or class not as specified	X	
	Cloth color visible under black marking medium	X	

4.3.4.2 End item dimensional examination. End items shall be examined for the nonconformities listed in table II on a lot by lot basis. Only those dimensions that can be evaluated without damaging or disassembling the end items shall be examined. The inspection level shall be S-3. An AQL, expressed in terms of nonconformities per hundred units, shall be 6.5 major nonconformities and 15.0 for combined major and minor nonconformities.

TABLE II. End item dimensional nonconformities

Examine	Nonconformity	Classification	
		Major	Minor
Dimensions (overall)	Smaller than nominal dimensions less applicable minus tolerance indicated on drawings, but not smaller than nominal dimensions less twice the applicable minus tolerances		X
	Smaller than nominal dimensions less twice the applicable minus tolerance	X	
	Larger than nominal dimensions and applicable plus tolerance		X
Component and location dimensions (not otherwise classified herein)	Not within specified tolerance		X
Box-x stitching	Dimensions not as specified		X
Stitch margin and gauge	Not within specified tolerance		X
Vertical carry strap	Not centered by more than 1 inch	X	
Compression straps	Out of horizontal or vertical alignment with corresponding buckle chapes by 1/4 inch or more	X	

4.4 Packaging inspection.

4.4.1 Examination of packing and marking. An examination shall be made to determine that packing and marking comply with the section 5 requirements. Nonconformities shall be scored in accordance with the list below. The sample unit shall be one shipping container fully packaged except that it need not be closed. Nonconformities of closure listed below shall be examined on shipping containers fully packaged. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2, and the AQL, expressed in nonconformities per hundred units, shall be 2.5 nonconformities.

<u>Examine</u>	<u>Nonconformities</u>
Markings	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application.
Materials	Any component missing or not as specified. Any component damaged, affecting serviceability.
Workmanship	Inadequate application of components, such as: incomplete closure of container flaps, improper taping, loose strapping, inadequate stapling.
Contents	Bulged or distorted container. Number of liners per container is more or less than required.

## 5. PACKAGING

5.1 Preservation. Preservation shall be in accordance with ASTM D 3951 and as specified in the contract or purchase order.

5.1.1 Folding. The zipper shall be closed, the strap loosened, the sides, top and bottom pushed in and the bag folded flat with the "Flammable Liquid" markings showing. At the manufacturer's option, the flattened bag can be folded in half. The bag shall be inserted into a snug-fitting clear polyethylene film bag. Bag closure shall be effected by heat-sealing with the seal made as close as possible to the open end, with excess air within the bag being expelled during the final heat-sealing closure operation.

5.2 Packing. Twenty (20) fuel bottle bags, packaged as specified shall, be packed in a close-fitting corrugated fiberboard box, minimum burst strength 275 psi. Boxes shall be type CF (variety SW) or type SF, class domestic, style RSC meeting the requirements of the latest version of ASTM D 5118. Boxes shall be in compliance with the National Motor Freight Classification. Each box shall be closed in accordance with the latest version of ASTM D 1974 except that the inspection shall be in accordance with 4.4.

5.3 Marking. In addition to any special marking required by the contract or purchase order, shipping and unit containers shall be marked in accordance with FED-STD-123 with the addition of the applicable National Fire Equipment System (NFES) number (which includes the nomenclature "NFES"), which shall appear on a separate line below the National Stock Number (NSN) of the shipping container only.

5.3.1 Unit pack. The required marking shall be legibly printed or stamped in black directly on the polyethylene bag across the center face or on a white paper label inserted within the bag so as to permit ready identification.

## 6. NOTES

6.1 Intended use. The fuel bottle bag is designed to carry 6 one liter aluminum fuel bottles.

6.2 Acquisition requirements. Acquisition documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) When first article samples are not required (see 3.1, 4.3, and 6.4).
- (c) When lot by lot testing is required in lieu of certificates of compliance (see 4.3.2).
- (d) Preservation, packing, and marking required in addition to specification requirements (see section 5).

6.3 Standard shade sample. Color shade samples for the blue basic cloth may be obtained from the preparing activity (6.6).

6.4 First article. When first articles are required, they shall be inspected and approved under the appropriate provisions of Federal Acquisition Regulation 52.209. The first articles shall be preproduction samples consisting of three completed personal gear packs. The contracting officer should include specific instructions in all acquisition documents regarding arrangements for selection, inspection, and approval of the first articles.

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6.5 Notice. When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever.

6.6 Preparing Activity. USDA Forest Service, Missoula Technology and Development Center (MTDC), 5785 Highway 10 West, Missoula, Montana 59808.

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# Standardization Document Improvement Proposal

This form is provided to solicit beneficial comments that may improve this document and enhance it's use. Contractors, government activities, manufacturers, vendors, and users are invited to submit comments to:

Attach any additional pertinent information that may be of use in improving this document to this form and mail in a envelope. A response will be provided when the submitter includes their name and address.

USDA Forest Service  
Missoula Technology and Development Center  
5785 Highway 10 West  
Missoula, MT 59808

NOTE: This form shall not be used to submit requests for waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the document, or to amend contractual requirements.

Document Identification: **5100-613 - BAG, FUEL BOTTLE**

Submitter's Name (Optional. Please print or type): \_\_\_\_\_

Submitter's Organization and Address: \_\_\_\_\_

\_\_\_\_\_

Vendor     User     Manufacturer    \_\_\_\_\_

Phone Number: \_\_\_\_\_

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Has any part of the Document created problems or required interpretation in procurement use?

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