



Forest Service
U.S. DEPARTMENT OF AGRICULTURE

National Technology & Development Program

Specification 5100-613C BAG, FUEL BOTTLE

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Change	Reason
Revised 5.2 Packing, 5.3 Marking, and 6.4 Preparing Activity sections	Changes to quantities, box size, and contact information.
Update formatting.	Readability

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1. SCOPE

1.1. Scope.

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

1.2. Interpretations and Definitions.

1.2.1. Interpretation.

To carry out the provisions of this document, the word “shall” is understood to be mandatory.

1.2.2. Definitions.

Nonconformity: A departure of a quality characteristic from its intended level or state that occurs with severity sufficient to cause an associated product or service not to meet a specification requirement (per ANSI/ASQ Z1.4).

2. APPLICABLE DOCUMENTS

2.1. Government documents.

The following government documents, of the issue in effect on the date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein: Unless otherwise indicated, copies of federal and military specifications and standards are available online at <https://quicksearch.dla.mil/qsSearch.aspx> or in hard copy from the Standardization Documents Order Desk, Building 4D, 700 Robbins Ave., Philadelphia, PA 19111-5094. Copies of USDA Forest Service specifications are available from the preparing activity, 6.4.

2.1.1. Government specifications and standards.

2.1.1.1. Federal

A-A-55634 - Zippers (Interlocking Slide Fasteners)

A-A-59826 - Thread, Nylon

2.1.1.2. Military

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

MIL-W-17337 - Webbing, Textile, Woven Nylon

MIL-STD-129 – Marking and Labeling Requirements for Department of Defense (DoD)
Shipments

2.1.1.3. USDA FOREST SERVICE

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

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.

2.1.2.1. USDA Forest Service Drawings

Copies are available from the preparing activity, 6.4.

MTDC-1009 - Bag, Fuel Bottle

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. 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.

2.2.1. AMERICAN SOCIETY FOR QUALITY (ASQ)

Copies are available from the American Society for Quality, PO Box 3005, Milwaukee, WI 53201-3005.

Z1.4 - Sampling Procedures and Tables for Inspection by Attributes

2.2.2. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

Copies are available from ASTM, 100 Barr Harbor Dr., West Conshohocken, PA 19428-2959, Website: <http://www.astm.org/>.

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

E 380 - Practice for the use of the International System of Units

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

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

National Motor Freight Classification

2.3. Order of precedence.

In the event of a 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 in accordance with 4.3. During the term of the contract, the contractor shall be required to notify the contracting officer in writing when a component, or the component supplier, changes in any way; when a major manufacturing process changes in any way; or when a manufacturing location changes. The contracting officer may at any time require the contractor to submit a new first article sample when substantive changes occur during the term of the contract.

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. Webbing, textile, woven nylon, 3/4 inch.

The webbing shall conform to class 2 of MIL-W-17337. The color shall be black.

3.2.3. Thread, nylon.

The thread shall conform to type II, class A of A-A-59826. Thread for bartacking and stitching for identification label shall be size E thread. Thread for zipper to zipper panel shall be size F thread. All other stitching shall be size FF thread unless otherwise specified.

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. Zipper 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. Zipper 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. Zipper 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. Zipper components.

All components of the slide fasteners shall be manufactured by the same company to ensure compatibility of components.

3.2.5. Double-bar buckle/ladder lock.

The 3/4 inch double-bar buckle shall be ITW Waterbury Trovato Ladderloc, part no. 154-0075; National Molding Corp. Tension locks, part no. 4218; or American Cord & Webbing Double Bar Single Lock, part no. DB 3/4".

3.2.6. Identification label.

The combination identification and cleaning label 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 +1/16 inch for the identification part and 1/8 inch +/- 1/32 inch for the cleaning part. The contents shall dictate label size and shall be in the following format:

Bag, Fuel Bottle

NSN 8465-01-503-4476

USFS SPEC. 5100-613C

CONTRACT NO.: [Contract no.]1/

[Manufacturer's name]1/

DATE OF MANUFACTURE: [mm/yy]1/

CLEANING

DIRT - LET DRY; REMOVE WITH STIFF BRISTLE BRUSH.

LIGHT OIL - BRUSH WITH WARM WATER DETERGENT SOLUTION;
RINSE THEN DRY. MAY BE MACHINE WASHED; COLD WATER,
GENTLE CYCLE ONLY AND AIR DRIED.

DO NOT BLEACH!

1/ 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.

3.2.6.3. Label Size.

The identification label shall be of size and configuration to ensure that there is no attachment stitching within the silkscreened Flammable Liquid or orientation marking areas.

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 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 back of the end of the stitching.
- b. Except for presewing, thread breaks or two or more consecutive skipped or runoff stitches noted during an 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 non-conforming area and continue over the non-conforming 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:

Table 1. Bartacking requirements.

Length	Width	Length Tolerance	Width Tolerance	Stitches Per Bartack
3/4 inch	1/8 inch	1/16 inch	1/32 inch	42
1/2 inch	1/8 inch	1/16 inch	1/32 inch	28

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 4.2.3.1).

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 inches (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.

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 4.2.5.2.1 and 4.2.5.1.1 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.

3.4. Marking.

Both side panels of the bag shall be marked with a Flammable Liquid label and a package orientation label as shown in drawing MTDC-1009. The labels shall be silk-screened on the fabric in red and white ink in accordance with type IV, class 9 of MIL-DTL-32075. The 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. Deviations and waivers.

Deviations and waivers to the materials or construction specified herein shall not be allowed unless authorized in writing by the contracting officer.

3.8. Workmanship.

All items shall conform to the quality of the 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.

3.9. 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.

3.10. 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. Inspection records of the examination and tests shall be kept complete and available to the Government.

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, inspections 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 Conformance.

Unless otherwise specified, certificates of conformance (COC) 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. When certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification. In addition, when the contractor changes component or material suppliers, a new certification based on actual test results shall be required.

4.2. Inspection and tests.

4.2.1. Classification of inspection.

The inspection requirement specified herein are classified as follows:

- a. First article inspection (4.2.4.2).
- b. Quality conformance inspections (4.2.5).

4.2.2. 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.

4.2.3. Certification of conformance.

Unless otherwise specified (6.2), as part of first article presentations and lot inspections, it shall be acceptable for the contractor to provide certificates of conformance for all materials and components in lieu of lot by lot testing, except as specified in 4.3.2.1. The contractor shall furnish a certificate of conformance for the requirements of 3.3.5 verifying that thread lubricants have not been used before or during sewing. All certificates shall include as a minimum:

Product description, including specification, type, class, and form when applicable

Date of manufacture
 Purchase source, address, and telephone number
 Purchase date
 Lot number traceable to materials used in production

4.2.3.1. Certificates of conformance required.

Nylon duck cloth (3.2.1)
 3/4 inch nylon webbing (3.2.2)
 Nylon thread (3.2.3)
 Zipper (3.2.4)
 3/4 inch double bar buckle (3.2.5)
 Label (3.2.6)
 No thread lubricant (3.3.1.5)
 Marking (3.4)

4.2.3.2. 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.

4.2.4. First article inspection.

When first articles are required, they shall be inspected and approved under the appropriate provisions of Federal Acquisition Regulation 52.209. Unless otherwise specified, the first article inspection samples shall be visually and dimensionally inspected as specified in 4.2.5.2.1 and 4.2.5.2.2, grading of the inspections shall be as shown in Table 2. The presence of any nonconformity, whether major or minor or failure to pass any test shall be cause for nonacceptance of the first article submission. All inspection and testing of the first article sample(s) shall stop upon a single failure. The contractor shall be informed as to the nature of the failure, but the Government is not obligated to continue testing an item once it is known to be noncompliant or when it is considered in the best interest of the Government.

Table 2. First article inspection.

Nonconformance	Section	Major Classification	Minor Classification
1. Certificates of conformance missing or incomplete	4.2.4.2	X	
2. End item visual examination not as specified	4.2.5.2.1	X	
3. End item dimensional examination not as specified	4.2.5.2.2	X	

4.2.4.1. First Article Inspection Package.

The contractor shall submit to the Government—along with first articles selected in accordance with 4.2.4.2—copies of:

- a. All certificates of conformance (4.2.3).
- b. Company inspection records.
- c. All test results for the first article samples.
- d. All other information necessary to perform the inspections identified in 4.2.4.

4.2.4.2. Sampling for first article inspection.

Unless otherwise specified, the contractor shall make items available to the Government for the selection of first article samples. The first articles shall be preproduction samples consisting of three completed fuel bottle bags. First article inspection shall be performed on a product sample(s) in accordance with 4.2.4.

4.2.5. Quality Conformance Inspection

4.2.5.1. 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 (3.3.8). 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.

4.2.5.2. End item examination.

Each end item lot shall be sampled and inspected as specified in 4.2.5.2.1.1 and 4.2.5.2.2.1. A sample unit for a lot shall be one complete fuel bottle bag.

4.2.5.2.1. End item visual examination.

The end items shall be examined for the nonconformities listed in Table 3 on a lot by lot basis. Unless otherwise specified, nonconformities shall be scored on an individual basis, i.e., each seam, each stitching end, each dimension, etc.

Table 3. Lot acceptance inspection and testing.

Examine	Nonconformity	Major Classification	Minor Classification
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 floats, or open place, clearly visible at normal inspection distance (3 feet)	X	
	Needle chew 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.		X
	Color not as specified	X	
	Shade bar, fine or coarse filling bar		X
	Coating non-conforming 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	NOTE: Each slide fastener shall be fully closed and opened three times to determine whether fastener operates smoothly and provides a secure closure.		
	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	
	Length not as specified	X	
	Components not all manufactured by the 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

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	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	
Double bar buckle	Type, size, or color not as specified	X	
	Position upside down or incorrectly threaded on webbing		X
Open seam	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.		
	1/2 inch or less		X
	More than 1/2 inch	X	
Raw Edge (on edge required to be finished)	More than 1/2 inch when securely caught in the stitching		X
	Note: Raw edge not securely caught in stitching shall be classified as an open seam.		
Run-off	See open seam		
Seam and stitch type	Seam or stitch type not as specified	X	
Bartacks	One or more bartacks omitted		X
	Any bartack not as specified or not in the specified location	X	
	Stitching loose, incomplete, or broken		X
Stitch tension	NOTE: Non-conformities 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.		
	Loose, resulting in loose bobbin or top thread	X	
	Excessively tight, resulting in puckering of material	X	

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Stitches per inch	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: (a) Within the minor non-conformity classification - no non-conformity (b) Within the major non-conformity classification - minor non-conformity Non-conformities to be scored only when a 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.		
	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 the maximum specified	X	
Stitching margin (not otherwise specified)	NOTE: Non-conformities 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.		
	Exceeds specified tolerance, up to 1/16 inch		X
	Exceeds specified tolerance, over 1/16 inch	X	
Stitching gauge	Not as specified	X	
Stitching ends	Not secured as specified	X	
Thread breaks, skipped stitches or run-offs (unless otherwise classified herein)	NOTE: Thread breaks or two or more consecutive skipped stitches or run-offs not overstitched shall be classified as open seams.		
	Not overstitched as specified	X	
Rows of stitching	Any row missing except on box-x stitching	X	
	On box-x stitching:		
	- One row of stitching is omitted		X
	- Two or more rows of stitching omitted	X	
Automatic stitching	Stitching ends not backstitched patterns as specified, i.e., less than 1/2 inch tying, overlapping, or backstitches	X	

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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
Piecing	Any piecing or splicing unless otherwise specified	X	
Pleats (on front pockets)	Not formed and sewn separately 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 the location specified	X	
	Incorrect label margins	X	
Location markings	Drill mark exceeds size specified	X	
	Drill mark not covered on the finished item		X
	Printed marking more than 1/32 inch in width or not covered by component part		X
Marking: NFES	Omitted, incorrect, illegible, misplaced, or size of characters not as specified	X	
	Cloth color visible under black marking medium	X	

4.2.5.2.1.1. Sampling for end item visual examination.

Sampling for inspections and tests shall be in accordance with ANSI/ASQ Z 1.4. 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 non-conformities per hundred units, shall be 4.0 for major non-conformities, and 15.0 for combined major and minor non-conformities.

4.2.5.2.2. End item dimensional examination.

End items shall be examined for the non-conformities listed in Table 4 on a lot by lot basis. Only those dimensions that can be evaluated without damaging or disassembling the end items shall be examined.

Table 4. End item dimensional non-conformity.			
Examine	Non-conformity	Major Classification	Minor Classification
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 the specified tolerance		X
Box-x stitching	Dimensions not as specified		X
Stitch margin	Not within the specified tolerance		X
Carry straps	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	

4.2.5.2.2.1. Sampling for end item dimensional examination.

Sampling for inspections and tests shall be in accordance with ANSI/ASQ Z 1.4. The inspection level shall be S-3. An AQL, expressed in terms of non-conformities per hundred units, shall be 6.5 major non-conformities and 15.0 for combined major and minor non-conformities.

4.2.5.3. Packaging inspection.

An examination shall be made to determine that packing and marking comply with the section 5 requirements. Non-conformities shall be scored in accordance with Table 5. The sample unit shall be one shipping container fully packaged except that it shall not be palletized and it need not be closed. Shipping containers fully packaged that have not been palletized shall be examined for non-conformities in closure.

Table 5. Packaging Examination	
Examine	Nonconformity
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. Bulged or distorted container.
Contents	Number of items per container is more or less than required.

4.2.5.3.1. Sampling for packaging inspection.

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 shall be 2.5 non-conformities per hundred units.

5. PACKAGING.

5.1. Packaging.

Preservation shall be in accordance with ASTM D 3951 and as specified in the contract or purchase order. All slide fasteners shall be closed. The bag shall be neatly folded as necessary to be inserted into a plastic bag.

5.2. Unit pack.

Each fuel bottle bag prepared in accordance with 5.1 shall be inserted into a snug-fitting clear polyethylene bag that completely encloses the fuel bottle bag. The bag shall be closed in such a manner as to prevent the fuel bottle bag from falling out.

5.3. Packing.

Twenty (20) fuel bottle bags, packaged as specified, shall be packed into a 24" L X 16" W X 8" D corrugated fiberboard box, minimum burst strength 350 psi (minimum edge crush strength 55 pounds per inch width). 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 4.2.5.3.

5.3.1. Marking.

Shipping and unit containers shall be marked in accordance with MIL-STD-129 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.

5.3.2. 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 1-liter aluminum fuel bottles and has a flammable material label to indicate its flammable contents.

6.2. Acquisition Requirements.

Acquisition documents must specify the following:

- a. Title, number, and date of this specification.
- b. Whether a first article test is required.
- c. Specific instructions regarding arrangements for selection, inspection, and approval of the first article sample(s) when a first article test is required.
- d. When lot by lot testing is required in lieu of certificates of conformance.
- e. Preservation, packing and marking required in addition to specification requirements.

6.3. Standard shade sample.

Color shade samples for the blue cloth may be obtained from the preparing activity (6.4) and will be provided only to the contractor.

6.4. Preparing Activity.

USDA Forest Service, National Technology and Development Program, 5785 Highway 10 West, Missoula, MT 59808, (406)-329-3900.

6.5. Notice.

When Government drawings, documents, or other data are used for any purpose other than in connection with a related Government procurements operation, the United States Government thereby incurs neither responsibility nor any obligation whatsoever.