

MIL-K-83782A

18 December 1978

SUPERSEDING

MIL-K-83782

12 October 1971

## MILITARY SPECIFICATION

## KIT BAG, FLYER'S

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

## 1. SCOPE

1.1 This specification covers one type and size of clothing bag which is designated type BGU-2/P.

## 2. APPLICABLE DOCUMENTS

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

## SPECIFICATIONS

## Federal

V-F-106	Fasteners, Slide, Interlocking
V-T-295	Thread, Nylon
UU-P-268	Paper, Kraft, Wrapping
DDD-L-20	Label, For Clothing, Equipage And
	Tentage, (General Use)
PPP-B-636	Boxes, Shipping, Fiberboard

## Military

MIL-B-371	Braid, Textile, Tubular
MIL-W-4088	Webbing, Textile, Woven Nylon
MIL-C-7515	Cord, Nylon, Coreless
MIL-F-10336	Fiber, Sheet, Vulcanized
MIL-F-10884	Fasteners, Snap

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: HQ AFLC CASO/LODS, Federal Center, Battle Creek MI 49016 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

MIL-K-83782A

MIL-G-16491	Grommets, Metallic
MIL-C-20696	Cloth, Coated, Nylon, Waterproof
MIL-P-21922	Plastic Rods and Tubes, Polyethylene
MIL-S-22473	Sealing, Locking and Retaining
	Compounds, Single-Component
MIL-T-43566	Tape, Textile, Cotton, General Purpose,
	Natural Or In Colors

## STANDARDS

## Federal

FED-STD-751	Stitch, Seam and Stitching
-------------	----------------------------

## Military

MIL-STD-105	Sampling Procedures And Tables For
	Inspection By Attributes
MIL-STD-129	Marking For Shipment And Storage

## DRAWINGS

## Air Force

59D3672	Pouch-Shoe, Flyer's Kit Bag, Assembly
	Of
59K3671	Kit Bag, Flyer's Type BCU-2/P Assembly
65B1539	Handle, Flyer's Kit Bag, Assembly Of
65B1540	Stiffener-Flyer's Kit Bag, Lower
65B1541	Stiffener-Flyer's Kit Bag, Upper

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

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

## UNIFORM CLASSIFICATION COMMITTEE

## UNIFORM FREIGHT CLASSIFICATION RULES

(Application for copies should be addressed to the Uniform Classification Committee, Room 202 Union Station, 516 W. Jackson Blvd, Chicago, Illinois 60606.)

## NATIONAL CLASSIFICATION BOARD

## NATIONAL MOTOR FREIGHT CLASSIFICATION

(Application for copies should be addressed to the National Classification Board, 1616 P Street, N W., Washington DC 20036 )

MIL-K-83782A

### 3. REQUIREMENTS

3.1 First article. When specified (see 6.2), before production is commenced, a sample of the finished item shall be submitted or made ready for the contracting officer or his authorized representative for inspection as specified in 4.2.1. The approval of the preproduction sample authorizes the commencement of production but does not relieve the supplier of responsibility for compliance with all applicable provisions of this specification. The reproduction sample shall be manufactured by the supplier in the same facilities to be used for the manufacture of the production items.

3.2 Air Force drawings. The requirements of Air Force drawing 59K3671 apply as requirements of this specification. In case of conflict this specification shall govern.

3.3 Standard sample. The finished materials shall match the standard sample for shade and shall be equal to or better than the standard sample with respect to all characteristics for which the standard sample is referenced (see 6.3)

#### 3.4 Materials.

3.4.1 Bag exterior fabric. The exterior of the bag shall be coated nylon cloth, USAF color shade sage green 1509, conforming to MIL-C-20696, type I, class 2.

3.4.2 Pocket fabric. The pockets (shirt, shoes, et cetera) of the bag shall be coated nylon cloth, USAF color shade sage green 1509, conforming to MIL-C-20696, type I, class 2.

3.4.3 Thread. The thread for all stitching shall be nylon, type I or II, class 1, size F, conforming to V-T-295. The color shall be sage green AD, cable No. 66046 and shall show fastness to weathering equal to or better than the standard sample. If no standard sample is available, the thread shall show good fastness to weathering.

3.4.3.1 Stitching. All stitching shall conform to FFD-STD-751 type 301, using 8 to 10 stitches per inch.

3.4.3.2 Type 301 stitching. Thread breaks and two or more consecutive skipped stitches and run-offs in stitching shall be overstitched not less than one inch. Ends of stitching shall be backstitched or overstitched not less than 1/2 inch except where ends are turned under in a hem or held down by other 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.

3.4.4 Slide fasteners. The slide fasteners in the lengths specified shall conform to V-F-106, type I, style 18, size M, 2 sliders, center opening, for the bag closure, and type I, style 7, size LM for the inner pocket. The metallic slide fastener components shall be brass with a black chemical finish. All sliders shall be provided with a short tab pull with slots to accommodate 3/8 inch webbing thongs

MIL-K-83782A

3.4.4.1 Slide fastener tape. The slide fastener tape shall be cotton warp and nylon filling dyed USAF color shade sage green No. 1509 to match standard sample, and shall be mildew resistant treated. The finished tape shall show good fastness to weathering. The slide fastener tape for the bag closure fastener shall have a width of 3/4 inch and a 3/4 inch tape extension. The slide fastener tape for the inner pocket fastener shall have a 7/16 inch width and a 3/4 inch extension.

3.4.4.2 Webbing (tab). The webbing tab for the slide fastener shall conform to MIL-W-4088, type XII and the color shall approximately match the color of the basic material.

- \* 3.4.4.3 Webbing (thongs). The webbing thongs shall conform to MIL-T-43566, type I, class 3, and shall be 3/8 inch wide except that the overhand knot at free ends of thong may be omitted. The finished length of the thong after assembly to the pull shall be 3 ± 1/8 inches. As an alternate, cottonbraid, type VII, class 2 of MIL-B-371 may be used. The color shall be USAF color shade sage green No. 1509.

3.4.4.4 Drawstring for shoe pouch. The drawstring for the shoe pouch shall be nylon cord conforming to MIL-C-7515, type I. It shall be a cut length of 24 inches and the approximate color of the basic fabric (reference drawing 59D3672).

3.4.5 Handles. The handle shall conform to drawing 65B1539.

3.4.6 Fiberboard stiffeners. The fiberboard supports shall conform to drawings 65B1540 and 65B1541 and the material shall conform to MIL-F-10336. The stiffeners shall be cemented to the bag with a suitable type cement having an adhesive quality of 5 pounds per inch minimum when dry.

3.4.7 Identification of product. Each kit bag shall have an identification label stitched in the position shown on drawing 59K3671. The label shall conform to type I, class 5 of DDD-L-20 and shall contain the following information:

Kit Bag, Flyer's, Type BGU-2/P  
MIL-K-83782  
Contract No. 1/  
Contractor's Name 1/  
Stock Number 1/

1/ The manufacturer shall insert the applicable information.

3.4.8 Fasteners, snap. The snap fasteners shall conform to styles 2 and 2A as applicable, Finish 2 of MIL-F-10884.

3.4.8.1 Setting of style 2 and 2A snap fasteners. The hole punched before inserting the male and female part of the fastener shall be smaller than the outside diameter of the fastener barrel so that the barrel must be forced through the hole. The fasteners shall be securely clinched without cutting the surrounding material.

MIL-K-83782A

3.4.9 Grommets, metallic. The grommets for the shoe pouch shall conform to type I, class 1, size 00 of MIL-G-16491.

3.4.10 Tubing, plastic polyethylene. The plastic tubing for the handle shall conform to MIL-P-21922, type I, class L, grade 1.

\* 3.4.11 Sealing compound. The sealing compound for the screw post threads shall conform to type JV or HV, color clear of MIL-S-22473.

\* 3.4.12 Attaching handle posts and screws. Holes made in handle webbing to accomodate posts and screws shall be smaller than the outside diameter of the post so that the post must be forced through the hole.

3.5 Workmanship. The finished kit bag, with assembled components as required, shall conform to the quality established by this specification. The occurrence of defects shall not exceed the applicable acceptable quality levels.

#### 4. QUALITY ASSURANCE PROVISIONS

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

4.1.1 Certificate of compliance. When certificates of compliance are submitted the Government reserves the right to check test such items to determine the validity of certification.

4.2 Inspection. Sampling for inspections shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter.

4.2.1 First article inspection. When required, the preproduction sample submitted in accordance with 3.1 shall be inspected as specified in 4.3.1 and 4.3.2 for compliance with design, construction, workmanship and dimensional requirements.

4.2.2 Component and material inspection. In accordance with 4.1 above, component and materials shall be inspected and tested in accordance with all the requirements of referenced specifications, drawings, and standards unless otherwise excluded, amended, modified, or qualified in this specification or applicable purchase document. In addition to the quality assurance provisions of the subsidiary specifications and drawings, inspection shall be performed on the component listed below and acceptance shall be based on the supplier's certificate of compliance with the requirements specified for this component

<u>Component</u>	<u>Characteristic</u>	<u>Requirement Reference</u>
Cement	Adhesive quality	3.4.6

MIL-K-83782A

4.2.3 In process inspection. Inspection shall be made at any point or during any phase of the manufacturing process to determine that operations are performed and components are assembled as specified on drawing 59K3671. The Government reserves the right to exclude from consideration for acceptance any material or service for which in-process inspection has indicated nonconformance.

4.3 Examination of the end product. Examination shall be made of the completely fabricated bag for defects in Tables I and II. The inspection level and AQL shall be as specified in 4.3.1. A lot shall consist of all completely fabricated kit bags offered for inspection at one time. The sample unit shall be one completely fabricated bag.

- 4.3.1 Material examination. The completely fabricated end product shall be examined for visual defects classified as specified in Table I. The inspection level shall be II and the AQL shall be 2.5 major defects, 10 major and minor A defects combined and 25 total defects. Defects shall be expressed in defects per hundred units (dhu).

TABLE I. Classification of Material Defects

Defects	CLASSIFICATION		
	Major	Minor	
		A	B
a. Basic material			
1. Hole, cut, tear or needle chew	X		
2. Mend or patch	X		
3. Exposed drill holes		X	
4. Fabric or coating defects seriously affecting serviceability or appearance	X		
- affecting serviceability or appearance but not seriously		X	
- not affecting serviceability or appearance			X
b. Coating			
1. Damaged, cracked, blistered, abraded, or punctured	X		
2. Any area of coating omitted, coating tacky or flaking	X		
3. Not flexible when cold	X		
4. Hole, cut or break	X		
c. Webbing			
1. Not firmly and tightly woven	X		
2. Frayed or scalloped edges	X		
d. Hardware Any component missing, damaged, broken or malformed, burrs or sharp edges, protective finish omitted or not as specified	X		

MIL-K-83782A

TABLE I. Classification of Material Defects (Cont'd)

Defects	CLASSIFICATION		
	Major	Minor	
		A	B
e. Seams and stitching: open seams			
1. 1/4 inch or less			X
2. More than 1/4 inch but less than 1/2 inch		X	
3. More than 1/2 inch	X		
NOTE A seam shall be classified as open when 1 or more stitches joining a seam are broken or when 2 or more continuous skipped stitches or run-offs occur. On double stitched seams a seam shall be classified as open when either one or both sides of the seam are open.			
f. Raw edges (except on binding)			
1. More than 1/4 inch when securely caught in stitching			X
NOTE Raw edges not securely caught in stitching shall be classified as open seams.			
g. Seam and stitch types-wrong seam or stitch type			
-Seriously affecting serviceability or appearance	X		
-Affecting serviceability or appearance but not seriously		X	
h. Stitch tension-loose, resulting in a loosely exposed top or bobbin thread; tight, resulting in puckering of fabric on seams			X
i. Stitches per inch-one or more stitches less than minimum specified		X	
1. One or more stitches in excess of maximum specified			X
2. Stitching ends not backstitched or backstitched less than 1/2 inch		X	
3. Thread breaks, skips or run-offs overstitched less than one inch			X
NOTE Thread breaks, skips and run-offs not overstitched shall be classified as open seams			
j. Stitching margins			
1. Gage on double needle stitching not as specified			X
2. Larger than specified by more than 1/16 for more than 4 inches			X

MIL-K-83782A

TABLE I. Classification of Material Defects (Cont'd)

Defects	CLASSIFICATION		
	Major	Minor	
		A	B
k. Bartacks			
1. Omitted	X		
2. Misplaced or improperly set on pockets affecting serviceability		X	
l. Components and assembly			
1. Any component part or required operation omitted (unless otherwise classified herein)	X		
2. Any required row of stitching omitted	X		
3. Seams or hems badly twisted puckered or pleated		X	
4. Any part of bag caught in an unrelated operation or stitching		X	
5. Binding improperly or loosely applied		X	
6. Binding ends not finished as specified			X
7. Gusset spliced in more than two places		X	
m. Corners-radius not uniform on all corners of pockets or case, corners irregularly shaped		X	
n. Slide fasteners			
1. Not specified type or style	X		
2. Slider on bag closure or inner pocket fails to interlock chain; tape improperly applied, causing malfunction, or tape edges of slide fastener on bag closure notched to form a curved configuration	X		
3. Thong omitted			X
o. Handle-not fabricated as indicated on Drawing 65B1539			
-Seriously affecting serviceability or appearance	X		
-Affecting serviceability or appearance but not seriously		X	
1. Ends of stitching not knotted or backstitched		X	
2. Not attached to bag as specified on Drawing 59K3671	X		
3. Any post and screw not securely attached		X	
4. Sealing compound omitted on any assembled post		X	
p. Stiffeners			
1. Openings in upper stiffener covered by fabric, reversed or not covered by flap when flap is closed		X	
2. Cracked, warped, delaminated or construction not as specified			
-Seriously affecting serviceability	X		
-Affecting serviceability but not seriously		X	
-Burs or sharp edges not removed		X	

MIL-K-83782A

TABLE I. Classification of Material Defects (Cont'd)

Defects	CLASSIFICATION		
	Major	Minor	
A	B	C	D
3. Not securely cemented to bag fabric		X	
4. Cement tacky, or cement extends beyond edges of stiffener by more than 1/4 inch			X
5. Upper stiffener not positioned as specified		X	
q. Shoe pockets			
1. Drawstring omitted, cut or abraded		X	
2. Ends of drawstring not finished as specified, less than specified length by more than 1 inch			X
3. Grommets at drawstring openings omitted, or damaged affecting movement of serviceability of cord	X		
4. Grommets clinched excessively tight cutting surrounding fabric or insecurely clinched, i.e., grommet or washer become disengaged	X		
5. Either drawstring cord caught in hem stitching causing failure to draw freely	X		
6. Drawstring hem improperly formed, badly puckered, twisted, or pleated, or smaller than specified width by more than 1/4 inch		X	
r. Identification label			
1. Omitted, misplaced, illegible, incorrect or size of characters not as specified			X
s. Reinforcements-omitted, misplaced, or improperly applied failing to serve intended purpose	X		
-Finished dimensions of reinforcements less than specified by more than 1/8 inch, unless otherwise specified			X
-Slide fastener tape extension on pockets not caught in stitching		X	
t. Snap fasteners-not specified type, size or finish		X	
-Any fastener not functioning properly, failing to snap closed or open freely, any fastener omitted	X		
-Female fasteners on body gusset do not correspond with male fasteners on shoe bag failing to effect a smooth attachment		X	
-Improperly set, not securely clinched, i.e., components of stud or socket separate when fasteners are snapped and unsnapped, clinched excessively, cutting surrounding fabric	Y		
-Snap fasteners set out of alignment by 1/4 inch or more on inside pocket		X	
u. Cleanliness			
Stains (oil, grease, ink, dirt, cement, et cetera) clearly noticeable, thread ends not trimmed throughout			Y

MIL-K-83782A

4.3.2 Dimensional examination The completely fabricated end product shall be examined for dimensional defects as classified in Table II. The inspection level shall be S-3 and the AQL shall be 4 major defects and 10 total defects

TABLE II Classification of Dimensional Defects

Defects	CLASSIFICATION		
	Major	Minor	
Overall dimension-smaller than nominal dimensions less applicable minus tolerances indicated on the drawing, but not smaller than nominal dimensions less twice the applicable minus tolerance	X		Y
Smaller than nominal dimensions less twice the applicable minus tolerance indicated on the drawing			
Larger than nominal dimensions and applicable plus tolerance indicated on the drawing			X
Component and location dimension (unless otherwise specified)-not within specified tolerances			

\* 4.3.3 Examination of preparation for delivery requirements.

- \* 4.3.3.1 Examination for packaging, packing and marking. An examination shall be made to determine that packaging, packing and marking comply with Section 5 requirements of this specification. Defects shall be scored in accordance with the list below. The sample unit shall be one shipping container fully prepared for delivery shall be examined for defects of closure. 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 defects per hundred units

<u>EXAMINE</u>	<u>DEFECT</u>
Marking	Omitted, incorrect, illegible, of improper size, location, sequence or method of application
Materials	Any component missing or damaged, affecting serviceability
Workmanship	Inadequate application of components, such as incomplete closure of container flaps, loose strapping, or taping, inadequate stanching Bulged or distorted container
Content	Number of bags per container is more or less than required.

MIL-K-83782A

## 5. PACKAGING

5.1 Preservation-packaging. Packaging shall be level A or C as specified. (See 6.2)

5.1.1 Level A. Each kit bag, with all fastenings secured, shall be neatly folded to measure 26 by 20 inches.

5.1.2 Level C. Kit bags shall be packaged to afford adequate protection against deterioration and physical damage during shipment from the supply source to the first receiving activity. The supplier may use his standard practice when it meets these requirements.

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

5.2.1 Level A. Twenty kit bags, packaged as specified, shall be packed in a snug-fitting fiberboard shipping container, conforming to type SF, class weather-resistant grade V2S, style FOL-L of PPP-B-636. Each shipping container shall be fitted with a box liner fabricated of type CF, grade V3c of PPP-B-636. The contents shall be completely covered on top and bottom with a piece of 30 pound minimum basis weight kraft paper conforming to grade B of UU-P-268. The container shall be closed, waterproofed, and reinforced in conformance with the requirements of the appendix of the box specification.

5.2.2 Level B. Twenty kit bags, packaged as specified, shall be packed in a snug-fitting fiberboard shipping container conforming to CF or SF, class domestic, grade 275, style FOL-L of PPP-B-636. Each shipping container shall be fitted with a box liner fabricated of type CF, class domestic, variety DW, grade 275 of PPP-B-636. The contents shall be completely covered on top and bottom with a piece of 30 pound minimum basic weight kraft paper conforming grade B of UU-P-268. The container shall be closed in conformance with the requirements of the appendix of the box specification.

5.2.3 Level C. Kit bags packaged as specified shall be packed in a manner that will afford adequate protection against physical damage during shipment from the supply source to the first receiving activity. Containers shall conform to Uniform Freight Classification or National Motor Freight Classification Rules and Regulations as applicable.

5.3 Marking. In addition to any special marking required by contract or order, shipping containers shall be marked in conformance with the requirements of MIL-STD-129.

## 6. NOTES

6.1 Intended use. The kit bag is to be used by flight crews and other personnel to carry items of personal property while traveling.

6.2 Ordering data

- a. Title, number and date of this specification.
- b. When a first article is required (see 3.1).
- c. Selection of applicable levels of packaging and packing (see 5.1 and 5.2).

MIL-K-83782A

6.3 Standard sample. For access to standard sample address the procuring officer issuing the invitation for bids.

6.4 USAF color shades. A sample of USAF color shades may be obtained from the procuring activity or as directed by the contracting officer.

\* 6.5 Reclaimed materials. The use of reclaimed materials shall be encouraged to the maximum extent possible.

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

Custodians  
Air Force - 99  
Navy - AS

Preparing activity  
Air Force - 99

Revised  
11-61

(Project 8400-0050)

SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No 22-R255
<p><b>INSTRUCTIONS:</b> This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.</p>		
SPECIFICATION MIL-K-83782A		
ORGANIZATION		
CITY AND STATE	CONTRACT NUMBER	
MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1 HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? A GIVE PARAGRAPH NUMBER AND WORDING		
B RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES		
2 COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3 IS THE SPECIFICATION RESTRICTIVE? <input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes" in what way?)		
4 REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers attach to form and place both in an envelope addressed to preparing activity.)		
PREPARED BY (Print or typed name and activity. Optional)		DATE

FOLD

---

POSTAGE AND FEES PAID

---

OFFICIAL BUSINESS

AFLC CASO/LODS  
FEDERAL CENTER  
BATTLE CREEK, MI 49016

---

FOLD