

MIL-J-7448K(USAF)
15 February 1979
 SUPFRSTING
 Notice-1
 1 April 1976
 (See 6.5)
 and
 MIL-J-7448J
 16 April 1969

MILITARY SPECIFICATION

JACKET, UTILITY L-2B

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

1. SCOPE

- * 1.1 Scope. This specification covers one type of utility jacket designated type L-2B and furnished in the following sizes (see 6.2):

Small
 Medium
 Large
 Extra Large
 Extra Extra Large

2. APPLICABLE DOCUMENTS

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

SPECIFICATIONS

Federal

V-F-106	Fasteners, Slide, Interlocking
V-T-276	Thread, Cotton
V-T-295	Thread, Nylon
KK-L-2004	Leather, Cattlehide, Deerskin and Horsehide, Chrome Tanned
DDD-L-20	Label: For clothing, Equipage, and Tentage, (General Use)
PPP-B-636	Boxes, Shipping, Fiberboard
PPP-F-320	Fiberboard; Corrugated and Solid, Sheet Stock (Container Grade), and Cut Shapes

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.

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Military

MIL-C-3735	Cuffs, Knit, Wrist, and Ankle, and Cloth, Knitted
MIL-C-4294	Cloth, Nylon, Twill
MIL-C-8797	Cloth, Taffeta, Nylon Face Wool Back and Cloth, Satin, Rayon Face Wool Back
MIL-F-10884	Fasteners, Snap

STANDARDS

Federal

FED-STD-191	Textile Test Methods
FED-STD-311	Leather, Methods of Sampling and Testing
FED-STD-751	Stitches, Seams, and Stitchings

Military

MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	Marking for Shipment and Storage

DRAWING

Air Force

51B3566	Jacket, Utility L-2B
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(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer)

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

COLOR ASSOCIATION OF THE UNITED STATES, INC

Standard Color Card of America

(Copies may be obtained from the Color Association of the United States, Inc, 200 Madison Avenue, New York NY 10016.)

Rules and Regulations Under the Wool Products Labeling Act of 1939

(Applications for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington DC 20402.)

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3. REQUIREMENTS

3.1 Materials.

- * 3.1.1 Outer shell. The material for the outer shell shall conform to Type II, Class C of MIL-C-4294 except that the pH of water extract shall be between 3.0 and 9.0. The color (shade) of the outer shell material shall match USAF color shade No. 1511, sage green (see 6.3).
- * 3.1.2 Lining and hanger. The material for the lining and the hanger shall be cloth, wool nap-back, synthetic fiberface material conforming to Type II of MIL-C-8797 except that the standard fading hours shall be 10, moth proofing requirements shall not be applied, and the pH values shall be 3.0 to 9.0.
 - 3.1.2.1 Color of lining. Unless otherwise specified, the color of the lining shall match sage green USAF colorshade 1529. The finished fabric shall show fair colorfastness to crocking and good colorfastness to perspiration, dry cleaning, and light properties (10 standard fading hours) when tested as specified in Table VII.
- * 3.1.3 Collar, waistband, and wristlets. The material for the waistband, collar, and wristlets shall be knit wool conforming to MIL-C-3735. The color and waistband shall be Type I, Class 3, and the wristlets shall be Type I, Class 2, size 2. The color (shade) of the knit wool shall be USAF color shade 1525, sage green (see 6.3). The width of the waistband shall be as specified in Table I.

TABLE I. Width of waistband (inches)

Jacket Size	Width in Direction of Courses	Tolerance	
		Plus	Minus
Small	24	1/2	1/2
Medium	25	1/2	1/2
Large	26	1/2	1/2
Extra Large	27	1/2	1/2
Extra Extra Large	28	1/2	1/2

- * 3.1.4 Leather. The leather for the slide-fastener thong shall be chrome-tanned horsehide conforming to Type 3, Class 2, 1-1/2 to 3-1/4 ounces of KK-L-2004 except that the colorfastness to crocking wet shall be fair. The maximum grease content shall not exceed 25 percent, and the minimum stitch-tearing strength shall be not less than 600 pounds per inch of thickness when tests in accordance with FED-STD-311 are conducted on these already cutout component materials. The color of the leather shall be black.
- 3.1.5 Snap fasteners. The snap fasteners shall conform to style 2, finish No. 2 of MIL-F-10884 except that the accelerated weathering test for enamel is not required. The color of the visible surface of the cap portion of the fastener shall match the shade of the outer-shell material.

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3.1.6 Thread.

- * 3.1.6.1 Nylon thread. Unless otherwise specified, the thread for all sewing shall conform to Type I or II, Class 1, size F or B of V-T-295. The thread for the outer shell shall be dyed to match the shade of the outer-shell material (see 3.1.1). The thread used to assemble the parts of the lining shall be Indian orange shade conforming to Cable No. 70072 of the Standard Color Card of America. Topstitching around the edge of the jacket and bottom of sleeve, when stitching is through the lining, shall be with the top and the lower threads of the same shade as the outside. The thread shall show good colorfastness to light at 10 standard fading hours and good colorfastness to wet dry cleaning and to perspiration.

3.1.6.2 Cotton thread. The thread for stitching and topstitching the knitted fabric may conform to Type 1A3, ticket No. 30, 3 ply of V-T-276 and shall match USAF shade No. 1511, sage green (see 6.3).

3.1.7 Slide fasteners. Slide fasteners shall conform to Tables II and III herein and to V-F-106. The chain shall be brass, aluminum, or zinc alloy with a short tab pull to accommodate a 3/8 inch wide thong. The tape shall be cotton or cotton warp and nylon filling and shall be mildew-proofed in accordance with a method specified in V-F-106. If brass chain is supplied the metal components shall be furnished with a black chemical finish. The length of the slide fastener for the front opening shall conform to Table III.

TABLE II. Slide fasteners.

Location	Type	Style	Size	Length (inches)
Front opening	V	4	LMS <u>1</u> /	See Table III
Cigarette pocket	I	3	LMS <u>2</u> /	5 ±1/4

1/ The tape shall be 3/4 inch (+1/16 or -1/32 inch), and the maximum thickness shall be 0.030 inch.

2/ The tape shall be 9/16 inch (±1/32 inch) wide.

TABLE III. Length of slide fasteners (Front Opening).

Jacket Size	Length (Inches) <u>1</u> /
Small	20-1/2
Medium	21
Large	21-1/2
Extra Large	21-1/2
Extra Extra Large	22

1/ See Table entitled "Length Tolerances" of V-F-106.

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- * 3.1.7.1 Color of tape. The tape shall be vat dyed approximately the shade of the outer-shell material before mildew proofing and oxidizing requirements are applied. The color (shade) of the tape shall match USAF color shade No. 1511, sage green (see 6.3). The colored tape shall show fair colorfastness to light and good colorfastness to weathering when tested as specified in V-F-106.

3.1.7.2 Slider pull, front opening. The slide fastener for the front closure shall be a reversible, double-pull type.

3.1.8 Pencil point protector. A metal or a plastic pencil point protector shall be placed in the pencil pocket at the bottom of each of the small sections.

3.2 Color. Unless otherwise specified, the color of the components of the jacket shall be an approved, reasonable, and practical match to USAF color shade 1511, sage green (see 6.3), or shall conform to other color requirements as specified (see 3.1.2.1).

- * 3.3 Design. The jacket shall be single-breasted with a nylon, twill outer shell and a rayon-faced, wool-back lining. The jacket shall have a straight front center opening with a reversible, double-pull slide-fastener closure and a combination cigarette-pencil pocket with a slide-fastener closure on the left sleeve. The collar, the waistband, and the wristlets shall be knit wool. The jacket shall have two flaps and welt type slash pockets with snap fastener closures. The jacket is reversible for emergency use.

3.4 Construction. The jacket shall be constructed in accordance with Table IV, but the manufacturer is not required to follow the exact sequence of operations as specified therein.

3.4.1 Stitches, seams, and stitchings. The stitches, seams, and stitchings shall conform to FED-STD-751. Whenever two or more methods of seaming or stitch types are specified for the same operation, any one of them may be used. When stitch type 401 is used, the looper (underthread) shall be on the inside of the jacket.

3.4.1.1 Thread breaks and ends of seams. Ends of all seams and stitchings, when not caught in other seams or stitchings, shall be backtacked not less than 1/4 inch. Thread breaks (all stitch types) shall be secured by stitching back of the break 1/2 inch. Skipped stitches or thread breaks (stitch type 401) may be repaired using stitch type 301. Ends of a continuous line of stitching shall overlap 1/2 inch minimum.

- * 3.4.1.2 Stitches per inch. Unless otherwise specified, a tolerance of ± 2 stitches per inch shall be permitted.

3.4.2 Figures. Figures 1 and 2 are furnished for information purposes only. To the extent of any inconsistencies between the written specification and the figures, the written specification shall control.

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TABLE IV. Sewing operations.

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
1.	<p>CUTTING. The material shall be cut in accordance with the patterns furnished which show size, shape, directional lines for cutting, placement of pockets, and notches for the assembling of all parts. The Contractor shall replace, at the time of cutting, any part containing shade bars, holes, or weakening defects such as smashes, multiple floats, loose slubs, etc., likely to develop into a hole. He shall also replace any part damaged during the manufacturing process by needle chews, which may be expected to develop into a hole; cuts, tears mends; or burns.</p> <p>a. The outer-shell material shall be cut face up or down; that is, each ply of material shall be laid with the face of the cloth against the back of the next ply. When material is spread face up, no stain-producing marking agent shall be used in marking the top ply. The finished jacket shall have the face side of the outer-shell material on the outer side of the jacket. The inside of the roll shall be considered the face side of the material.</p> <p>b. Except for the pocketing, pocket facings and flap linings, which may be cut from ends, all component parts of the outer shell shall be cut from one piece of material.</p> <p>c. Except for the hanger, which may be cut from ends, all component parts of the rayon wool-backed lining shall be cut from one piece of material. The lining shall be cut so that the satin face is on the outside of the lining.</p> <p>d. Patterns shall be laid in the direction of the warp, in accordance with the directional lines indicated on the patterns for each component part of the jacket.</p>			

TABLE IV Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
2.	<p>SHADE MARKING. Except for parts cut from ends as indicated in operations 1b and 1c, all component parts shall be marked or ticketed to insure a uniform shade throughout the garment.</p>			
3.	<p>FRONTS - OUTER SHFL</p> <p>MAKE POCKET FLAPS. The finished flaps shall measure 7 \pm 1/8 inches long by 2-1/4 \pm 1/8 inches wide at the widest point. The flaps shall incorporate a button snap and socket, reinforced with self material located at the center of the flaps and 3/4 inch from the edge. The reinforced piece shall measure approximately 1-1/2 inches square.</p>	301	SSE-1(a)	12
4.	<p>a. Sew the flaps to the flap lining, with a single row of stitching, 1/4 inch from the edge. The reinforcement piece shall be centered between the inner and outer ply.</p> <p>b. Turn the flaps and raise stitch with a single row of stitching, 3/16 inch from the edge.</p>	301	SSE-2(b)	12
	<p>MAKE POCKETS. The two front pockets shall be flap and welt type. The welt shall measure 5/8 inch \pm 1/8 inch wide. The depth of the pocket shall be not less than 8-1/2 inches \pm 1/4 inch, measured at the center.</p> <p>a. Fold and sew the welt and the facing pieces to the pocketing with a single row of stitching 1/16 inch from the edge. The label shall be caught in the left pocket facing stitching. Stitch the other three sides of the label to the pocketing, or the label may be sewn along all edges with a single row of stitching, approximately 1/16 inch from the edge, to the inside pocketing material directly below the pocket welt. When facing and welt pieces are cut with selvage edge, the selvage edge need not be folded.</p>	301	LSa-1 and ISd-1	12

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TABLE IV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam Stitching Type	Stitches Per Inch
b.	Sew the flaps on the front at the drill marks, with a single row of stitching.	301	LSq-2(a)	12
c.	Sew the welt and the pocketing on the fronts at the drill marks with a single row of stitching at each end of the pocketing.	301	LSq-2(a)	12
d.	Cut the opening for the pockets. Tongue notch the corners.			
e.	Turn the pocketing through the slits, doubled over at the front edge for reinforcement to form a 5/8 inch \pm 1/8 inch welt.			
f.	Raise stitch the bottom of the welt through the front and pocketing with a single row of stitching 1/16 inch from the edge.	301	LSq-2(b)	12
g.	Sew the tongues at the corners to the welt and the facing on the inside with a single row of stitching.	301	SSa-1	12
h.	Raise stitch across the top of the flaps and the corners on the jacket, through the pocketing with a single row of stitching 1/16 from edge.	301	LSq-2(b)	12
i.	Stitch around the pocketing with a single row of stitching	301	SSa-1	12
j.	Bartack the corners of each pocket opening with a 1/2 to 5/8 inch bartack at each end.	bartack		28 per bartack

TABLE IV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam Stitching Type	Stitches Per Inch
5.	k. Stamp the female portion of the snap fastener on the pocket flap, centered with a 1/8 inch tolerance and 3/4 inch from the edge. Stamp the stud and eyelet on the jacket to correspond with the button snap on the flap.	301	OSf-1	12
	OUTER SHELL			
a.	Fold and sew the darts on the backs of the shoulder. In accordance with the notches and drill marks, with a single row of stitching.	301	LSq-2(b)	12
b.	Turn and raise the darts with a single row of stitching 1/16 inch from the edge, with the creased edge toward the center of the back, on the inside.	301	LSq-2(a)	12
6.	JOIN SEAMS	301 or 401	LSq-2(b)	12
	a. Join the side seams with a single row of stitching 1/2 inch from the edge.			
	b. Turn and raise the side seams with a single row of stitching 1/4 inch from the seamline, with the back overlapping the front.			
	c. Join the shoulders with a single row of stitching 1/2 inch from the edge.			
d.	Turn and raise the shoulder seam with a single row of stitching 1/4 inch from the seamline, with the back overlapping the front.	301	LSq-2(a)	12

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TABLE IV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam Stitching Type	Stitches Per Inch
7.	<p data-bbox="304 1312 328 1624">SLEEVES - OUTER SHELL</p> <p data-bbox="347 912 584 1891">MAKE PENCIL AND CIGARETTE POCKET. The pocket shall consist of a bellow-style cigarette compartment with a vertical fastener closure on the forward side, the full length of the pocket, and a pencil compartment with four openings, two upper and two lower. All pencil compartments shall be 7/8 inch \pm 1/8 inch wide. The pocket shall finish 5-3/4 inches \pm 1/4 inch long and 3-1/2 inches \pm 1/4 inch wide, including the slide-fastener tape. The width measurement shall be taken across the top of the pocket.</p> <p data-bbox="619 956 703 1891">a. Hem the top opening of the pencil compartment in accordance with the notches and sew with a double row of stitching, 1/4 inch gage, 1/16 to 1/8 inch from the top edge.</p> <p data-bbox="727 941 812 1891">b. Fold the pencil pocket at the lower notches to form the lower openings and sew with a double row of stitching, 1/4 inch gage, 1/16 to 1/8 inch from the edge.</p> <p data-bbox="836 1017 892 1891">c. Fold the opening to the center notches. Tacking of each edge with a single row of stitching is optional.</p> <p data-bbox="916 995 971 1891">d. Slit the fold through the center to make the pencil pass-through, or the pencil pocket may be made in two pieces.</p> <p data-bbox="995 930 1107 1891">e. Join the pencil compartment to the cigarette compartment with a double row of stitching, 1/4 inch gage, 1/16 to 1/8 inch from the edge, along both sides in accordance with the notches and the drill marks, with the bottom edge even.</p> <p data-bbox="1139 930 1224 1891">f. Place a single row of stitching between the front and the back edges the entire length of the pencil compartment to separate the openings.</p>	301	Efa-2 OSf-2 SSa-1 Lsd-2 SSv-1	12 12 12 12 12

TABLE IV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
	<p>g. Bartack the top ends of all pencil compartment openings with a 3/8 to 1/2 inch bartack, with bartacks superimposed on the inner row of double stitching and on the center row of stitching.</p> <p>h. Form a 3/4 inch bellows by joining the two bottom corners with a single row of stitching 1/4 inch from the edge.</p> <p>i. Attach the slide-fastener tape to the forward side of the pocket 1/4 inch from the edge. The slider shall be at the top of the pocket when the fastener is closed.</p> <p>j. Turn and raise stitch with a single row of stitching 1/16 inch from the edge of the pocket.</p> <p>NOTE: In lieu of operation 7i and 7j, the front edge of the pocket may be folded under 1/4 to 3/8 inch and stitch to the back of the slide-fastener tape 1/16 inch from the folded edge. The slider shall be at the top of the pocket when the fastener is closed.</p> <p>k. Position the front edge of the slide-fastener tape to the left sleeve at the drill marks, turn under the raw edge of the pocket ends 1/4 inch, and stitch all sides with the single row of stitching 1/16 to 1/8 inch from the edge. The slide-fastener tape shall be turned under at the top and the bottom ends only.</p>	<p>bartack</p> <p>301</p> <p>301</p> <p>301</p> <p>301</p> <p>301</p>	<p></p> <p>SSa-1</p> <p>ISq-2(a)</p> <p>LSq-2(b)</p> <p>LSb-1</p> <p>LSd-1 and LSa-1</p>	<p>28 per bartack</p> <p>12</p> <p>12</p> <p>12</p> <p>12</p> <p>12</p>

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TABLE IV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
8.	m. A second row of stitching shall be placed 1/4 inch from the front edge of the tape and across the top of the pocket.	301	SSv-1	12
	SEW SLEEVE OUTSEAM			
	a. Sew the sleeve outseam with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12
	b. Turn and raise the elbow seam, with the topsleeve overlapping the undersleeve, with a single row of stitching 1/4 inch from the seamline.	301 or 401	LSq-2(b)	12
9.	JOIN SLEEVE INSEAM. Join in seam of sleeve with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12
	a. Turn and raise the inseam, with the topsleeve overlapping the undersleeve, with a single row of stitching 1/4 inch from the seamline, or	301 or 401	LSq-2(b)	12
	b. Join the sleeve inseam, with the topsleeve overlapping the undersleeve, with a double-lapped seam with a double row of stitching, 1/4 to 1/16 inch gage, 1/16 inch from the folded edge.	301 or 401	LSq-2	12
	ATTACH WRISTLETS. Sew the prefolded knit wristlets to the bottom of the sleeves with a single row of stitching 1/2 inch from the edge or wristlets may be attached to bottom of the sleeve with a single row of overedge stitching 1/2 inch from the edge.	301 or 512	SSa-1	6 to 10
10.	JOIN SLEEVES TO ARMHOLES			
11.	a. Join the sleeves to the armholes, in accordance with the notches, with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12

TABLE IV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
12.	<p>b. Turn and raise the armhole from the elbow seam to the front armhole notch with a single row of stitching 1/4 inch from the seamline, with the body overlapping the sleeves.</p> <p>ATTACH COLLAR. Fold the wool knitted collar, and sew both edges to the neck of the outer shell with a single row of stitching 1/2 inch from the edge. Each front edge of the wool knit collar shall finish even with each front edge of the finished jacket front seam.</p>	301	LSq-2(b)	12
13.	<p>PREPARE WAISTBAND</p> <p>a. Sew the fabric pieces to each end of the knit waistband material on the open with a single row of stitching 1/2 inch from the edge.</p> <p>b. Turn and raise seam, with the outer shell overlapping the knit material, with a single row of stitching 1/4 inch from the edge.</p>	301	SSa-1	6 to 10
14.	<p>ATTACH THE KNIT BOTTOM WAISTBAND. Fold the knit bottom band lengthwise, and stitch plies of the knit band to the bottom of the outer shell with a single row of stitching 1/2 inch from the edge. The stitching shall start and finish approximately 1-1/2 inches from the knit facing extension seam; continue stitching of the bottom outer shell to one ply of knit (unsewn portion) and to the one ply of knit facing extension pieces.</p>	301	LSq-2(a)	6 to 10
		301	LSq-2(b)	6 to 10
		301	SSa-1	6 to 10

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TABLE IV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
15.	ATTACH SLIDE FASTENER			
	SLIDE FASTENER			
	a. Attach the slide fastener to the right and left front edges of the outer shell, 1/2 inch below the raw edge of the neckline, with a single row of stitching 1/4 inch from the edge. The slide-fastener tane shall be exposed 3/8 inch \pm 1/8 inch in the finished jacket. The slide-fastener scoons shall start approximately 1/2 inch from the collar gorge. The tane at the neckline shall be turned under and finished with no raw edges exposed. The slide-fastener tane shall be attached without excessive length of tape put in at any point. The finished bottom of the jacket shall be even on the right and left fronts.	301	SSa-1	6 to 10
	b. Position the leather thong in the hole in the slider (outer shell side) and sew around the top, bottom, and sides with a single row of stitching 1/8 inch from the edge, or the leather thong may be securely stitched with a crossed boxstitch or triangular stitching with an automatic machine	301 auto- matic	SSa-1	10 28 stitches minimum
16.	SEW DARTS			
	LINING			
	a. Sew darts at the shoulder back in accordance with the notches and drill marks.	301	OSf-1	12
	b. Turn and raise darts, with the creased edge toward the center of the back on the inside, with a single row of stitching 1/16 inch from the edge.	301	LSq-2(b) (shows finished seams)	12

TABLE IV. Sewing operations. (Cont d)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
17.	JOIN. Join the side seams with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12
	a. Turn and raise the side seams, with the front over-lapping the back, with a single row of stitching 1/4 inch from the seam line.	301 or 401	LSq-2(b)	12
	b. Join the shoulders with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12
	c. Turn and raise the shoulder seam, with the fronts overlapping the back, with a single row of stitching 1/4 inch from the seamline.	301 or 401	LSq-2(b)	12
	d. Join the elbow seam with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12
	e. Turn and raise the elbow seam on the undersleeve with a single row of stitching 1/4 inch from the edge.	301 or 401	LSq-2(b)	12
	f. Sew the in seams of the sleeves with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12
	g. Raise the in seams with a single row of stitching 1/4 inch from the seamline with the undersleeve overlapping the topsleeve, or join the sleeve in seam with the undersleeve overlapping the topsleeve, with a double-lapped seam, with a double row of stitching, 1/4 to 5/16 inch gap, 1/16 inch from the folded edge.	301 or 401 301 or 401	LSq-2(b) LSc-2	12 12
	h. Join the sleeve to the armhole with a single row of stitching 1/2 inch from the edge.	301	LSq-2(a)	12

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TABLE LV. Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
18.	i. Raise the armhole from the elbow seam to the armhole notch with a single row of stitching 1/4 inch from the edge.	301 or 401	1Sq-2(b)	12
	JOIN LINING TO OUTER SHELL			
	a. Join the sleeve lining to the outer shell at the wrist with a 1/2 inch seam.	301	SSq-2(a)	12
	b. Join the bottom of the lining to the unsewn portion of the knit waistband and knit-facing extension piece; continue the stitching at the bottom of the lining to the bottom of the jacket with a single row of stitching 1/2 inch from the edge.	301	SSq-2(a)	6 to 10
	c. Join the lining to the outer shell around the front edge and around the collar with a single row of stitching 1/2 inch from the edge, leaving an opening on the right front for turning.	301	SSq-2(a)	12
19.	d. Tack the lining to the outer shell at the armholes for a distance of approximately 1 inch on the front starting at the side seam, or bartack with a 3/4 to 7/8 inch bartack.	301	SSa-1	12 28 stitches per bartack
	e. Turn the jacket right side out.			
	FINISHING			
	a. Raise the front edges of the jacket, the collar joining seam, the sleeve terminals above wristlets, and across the bottom above the waistband with a single row of stitching 1/4 to 3/8 inch from the seamline.	301	SSq-2(b) (shows finished seam)	12
	NOTE: When raise stitching around the waistband, neckline and sleeve terminals, 6 to 10 stitches may be used in lieu of 12.			

TABLE IV Sewing operations. (Cont'd)

No.	Description of Operations	Stitch Type	Seam and Stitching Type	Stitches Per Inch
20.	<p>b. The raw edge of the right lining front at the opening for turning shall be turned under 3/8 inch and caught in the raising operation.</p> <p>MAKF HANGER</p> <p>a. Make one hanger fabricated from the Indian orange lining material. The size of the finished hanger shall be 3/8 to 1/2 inch wide and 3 to 3-1/2 inches long.</p> <p>b. Position the hanger at the center of the neck approximately 1 inch below the neck seam on the lining, and sew through the lining only with two rows of stitching 1/4 inch apart at each end, or bartacks 1/2 to 5/8 inch may be used at each end in lieu of stitching with the ends turned under.</p>	301	ISd-1	12
21.	<p>CLEAN JACKET. All ends of threads shall be trimmed, and loose threads shall be removed. Remove all spots, stains, shade tickets. Shade tickets shall be removed without injury to the fabric.</p>	301	EEP-2	12
22.	<p>SEWING TOLERANCES. The sewing tolerances shall be +0, -1/8 inch for 5/16 inch seams, +0, -1/6 inch for 1/4 inch seams, and +1/32, -0 inch for single row of stitching 1/16 inch from the edge.</p> <p>NOTE The letters "l" and "O" are not used in the No. column of this table because of their similarity to the numerals "1" and "0."</p>	301 or bartack	ISd-2 ISd-1	12 28 per bartack

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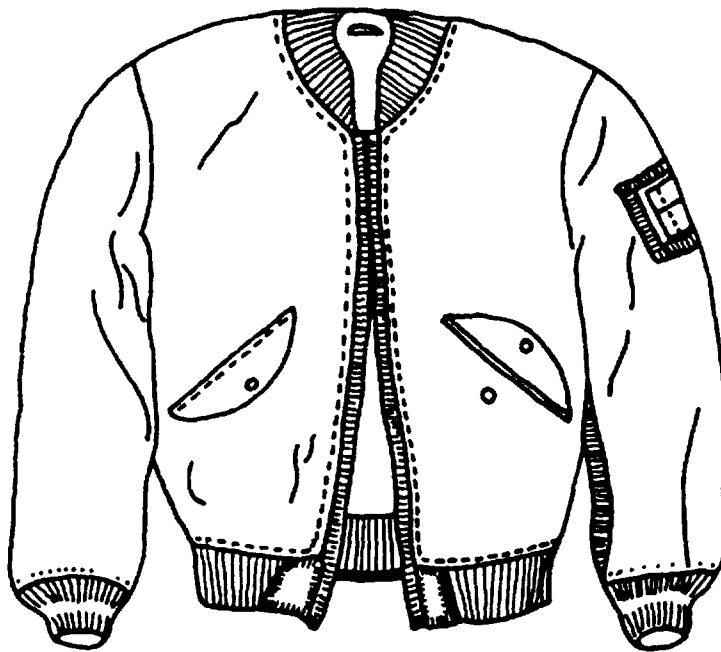


FIGURE 1. Jacket , front view

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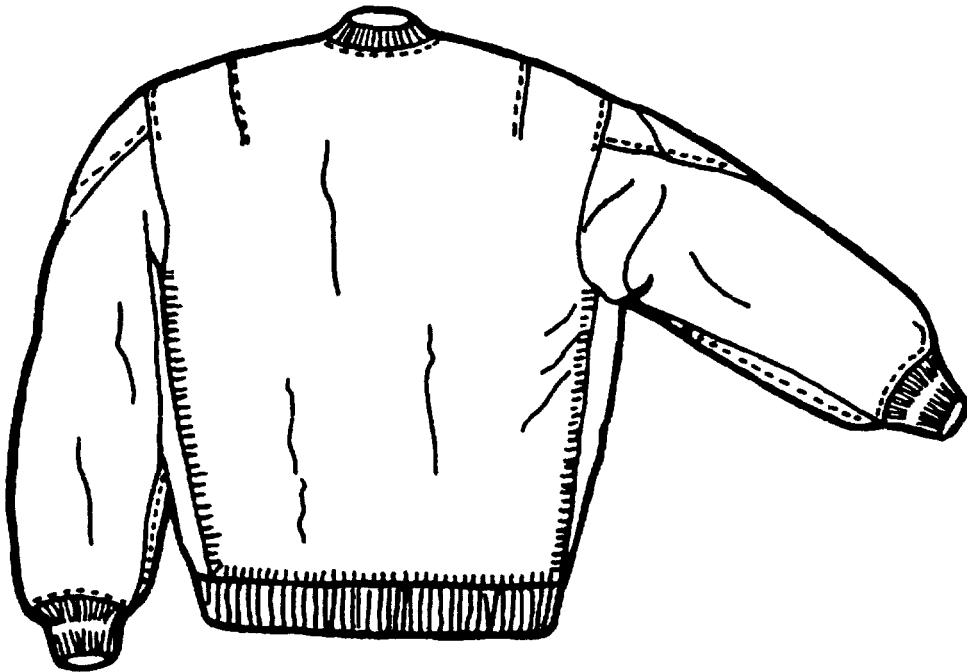


FIGURE 2. Jacket, back view

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3.4.3 Marking. The components of the jacket shall be marked to insure a uniform shade and size throughout the garment. Any method of marking may be used except:

a. Metal fastening devices

b. Sew-on type shade tickets

c. Adhesive-type tickets which show discoloration or the adhesive mass adheres to the material upon removal of the tickets.

3.5 Patterns. The manufacturer's working patterns shall be identical in size and shape to the patterns referenced on Drawing 51B3566.

3.5.1 Pattern parts. The components of the jacket shall be cut from materials specified according to the pattern parts required (see Table V).

TABLE V. Pattern parts.

Pattern Part	Number Required	Material
Back	1	Cloth, nylon twill
Front	2	
Pocket	4	
Pocket flap	4	
Pocket welt and facing	4	
Topsleeve	2	
Undersleeve	2	
Pencil pocket	1	
Cigarette pocket	1	
Facing (for knit)	2	
Back	1	Cloth, wool nap, back synthetic fiber face
Undersleeve	2	
Front	2	
Topsleeve	2	
Collar	1	Cloth, wool knitted
Thong	1	Leather, horsehide

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3.6 Finished measurements. Finished measurements shall conform to Table VI.

TABLE VI. Finished measurements (Inches).

Measurements <u>1/</u>	Size					Tolerance	
	Small	Medium	Large	Extra Large	Extra Extra Large	Plus	Minus
Back length	21-3/4	22-1/8	22-3/4	22-3/4	23-1/4	1/2	1/2
1/2 chest	23	24-3/4	26-1/2	28-1/2	30-1/2	3/4	3/4
Sleeve inseam	15-3/4	16-1/8	16-1/4	16-3/8	16-3/8	1/2	1/2

1/ NOTES:

The measurement of the back length shall be taken at the center of the back from the bottom undercollar seam to the seam at the bottom above the knit.

The measurement of 1/2 chest shall be taken, with the jacket slide fastener closed, from folded edge to folded edge at the base of the armhole.

The measurement of the sleeve inseam shall be taken, along with the underarm seam, from the armhole to the seam above the knit.

3.7 Identification of product.

- * 3.7.1 Identification label. A printed label conforming to Type I, class 1 of DDD-L-20 shall be securely sewn to the inside of the left pocket. The jacket is intended to be dry cleaned. The label shall contain the following information:

JACKET, UTILITY L-2B
 MIL-J-7448K Size *
 Stock No. *
 Contract No. *
 Manufacturer's Name or Trademark *
 Wool Products Information *
 DRY CLEAN ONLY

* The manufacturer shall include the applicable information.

3.7.2 Wool products label. Each jacket shall be marked to conform to the Wool Products Labeling Act of 1939. The legend may be included in the identification label.

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3.8 Workmanship. The jacket shall be constructed in a thoroughly workmanlike manner. The finished jacket shall be clean and free from any defects that might affect appearance or functionality.

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.

4.2 Inspection for acceptance. Unless otherwise specified herein, inspection shall be in accordance with MIL-STD-105.

4.2.1 Testing of components. Testing shall be performed on the component listed in Table VII for the characteristics noted.

TABLE VII. Testing of components.

Component and Characteristic	Requirements Paragraph	Testing Method (FFD-STD-191)
LINING		
Colorfastness to:		
perspiration	3.1.2.1	5632
dry cleaning	3.1.2.1	5622
light (10 standard fading hours)	3.1.2.1	5660
crocking	3.1.2.1	5651

4.2.1.1 Sampling for testing. Unless specifically requested by the Government, Government-furnished material shall not be sampled or tested. The sample unit for testing of each component shall be the quantity necessary to perform all required tests one time each. The acceptable quality level for each characteristic tested shall be 4.0 defects per 100 units. Unless a component is covered by a subsidiary specification with specific sampling procedures for testing, the inspection level shall be S-1 of MIL-STD-105 and the acceptable quality level shall be 4.0.

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4.2.2 Examination of end items.

4.2.2.1 Classification of defects. The defects found during examination shall be classified in accordance with 4.2.2.2, 4.2.2.3, and 4.2.2.4. All defects shall be classified as indicated except for those defects marked with an asterisk (*) in the classification column. Defects marked with an asterisk shall be classified as major defects when seriously affecting appearance or serviceability and as a minor A defect when affecting appearance or serviceability but not seriously.

4.2.2.2 General defects. General defects shall be classified as follows:

		Classification	
		Major	Minor A B
1. Bartacks			
a. Missing, insecure, or misplaced not serving intended purpose			
-one bartack			X
-two bartacks			X
-three or more bartacks	X		
b. Not within specified length tolerance			X
2. Cleanness			
a. Indelible ink shade stamping exposed on outside	*		
b. Any spot or stain on outside		X	
c. Thread ends not trimmed or one or more shade tickets not removed			X
3. Component and assembly			
a. Any component defective	*		
b. Any component part omitted	*		
c. Any required operation omitted or improperly performed, affecting appearance or serviceability	*		
4. Cutting			
Any component part not cut in accordance with direction lines on patterns or specified requirements	*		
5. Labels			
a. Identification label			
-missing or size marking omitted, incorrect, or illegible		X	
-information (other than size) missing, incorrect, or illegible			X
-not stitched on four sides to pocket lining			X

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	Classification		
	Major	Minor	
		A	B
b. Wool-content label (when information is not incorporated in the identification label) missing, incorrect, or illegible			X
6. Material defects and workmanship damages. Material defects that are weakening or nonweakening but that are inconspicuous and have a negligible effect on serviceability shall be classified as no defect. Workmanship damages that are weakening or nonweakening but that are inconspicuous and have a negligible effect on serviceability shall be classified as minor B defects. When the condition of a material defect or a workmanship damage is one that definitely weakens the material or when it is conspicuously located so that it is clearly noticeable, the material defects and workmanship damages shall be classified as follows:			
a. Any weakening defect, such as a smash, multiple float, loose slub, or needle chew that may develop into a hole			
b. Any hole			
c. Shade bar or unsightly slub -on outside -on inside			X
d. Cut, tear, mend, or burn	X		
e. One or more exposed drill holes			
7. SEAMS AND STITCHING			
a. Accuracy of seaming			
(1) Twisted, puckered, or pleated seam			
(2) Part of the garment caught in any unrelated operation or stitching			
(3) Thread(s) used on the outside not the same shade or not satisfactorily matching the shade of the garment		X	
(4) Thread breaks or end(s) of stitching (when not caught in other seams or stitching) not securely backstitched.		X	

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	Classification	
	Major	Minor A B
(5) Ends of a continuous line of stitching not overlapped or overlapped less than 1/2 inch		X
(6) Looper thread of 401 stitch type exposed on outside of jacket		X
b. Gage of stitching (edge, top, or raise stitching)		X
(1) Irregular, that is, unevenly gaged or corresponding stitchings not uniformly gaged affecting appearance		X
(2) Not within range of gage specified or varies more than 1/16 inch when no range is specified		X
c. Open seam. A break in a line of stitching or continuous skipped or runoff stitches (except on edge, top, or raise stitching) shall constitute an open seam.		
-over 1/8 inch to and including 1/4 inch		X
-over 1/4 inch	X	
d. Stitches skipped or broken (on edge, top or raise stitching when seam is seamed, turned, and stitched)		
-over 1/4 inch to and including 1/2 inch		X
-over 1/2 inch	X	
e. Raw edges. A raw edge shall be classified as such when it occurs along an edge required to be turned under but the edge is securely caught in the stitching. If the edge is not securely caught in the stitching, it shall be scored as an open seam.		
(1) On outside		
-over 1/8 inch to and including 1/4 inch		X
-over 1/4 inch	X	
(2) On inside		
-over 1/2 inch to and including 1 inch		X
-over 1 inch	X	
f. Runoffs		
(1) On joining seams, when resulting in an open seam, score as open seam		
(2) On edge, top, or raise stitching when not resulting in open seam (outside only)		
-over 1/2 inch to and including 1 inch		X
-over 1 inch	X	

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Major	Minor	
	A	B
X	X	
X		
	X	

- a. Missing, mismatched, not securely clinched, or otherwise defective and affecting function
 - one fastener
 - both fasteners
- b. One or more clinched too tightly, that is, cutting surrounding fabric
- c. Rough or sharp edges on one or more studs or sockets

4.2.2.3 Detail defects. Detail defects shall be classified as follows:

Major	Minor	
	A	B
	X	
		X
		X
	X	
	X	
	•	
	X	
	•	
	•	
	X	

- a. Length of closed fronts uneven at neck 1/4 inch or more or at bottom 1/2 inch or more
- b. Slide fastener
 - tape exposed less than 3/16 or more than 5/16 inch beyond edge of metal chain
 - tapes set on too loosely or too tightly causing excessive bulging on opening, affecting appearance
 - lengths less than specified in Table III by more than 1/2 inch
- c. Ends of waistband joining seam not in alignment by 1/4 inch or more when fronts are closed

- a. Badly twisted, affecting appearance
- b. Ends finishing at unequal distance from front edge more than 1/4 inch

Badly twisted, affecting appearance

a. Left and right not in corresponding diagonal position affecting appearance

b. Out of alignment by 1/2 inch or more

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	Classification		
	Major	Minor	
		A	B
c. Welts or bartacks exposed beyond ends of opening, 1/8 inch or more		X	
d. Opening less than 6-3/4 or more than 7-1/2 inches long		X	
e. Width of welt less than 3/8 or more than 7/8 inch		X	
f. Flaps			
(1) Poorly or unevenly shaped, affecting appearance			
(2) Less than 6-3/4 or more than 7-1/2 inches long		X	
(3) Less than 2-1/8 or more than 2-3/8 inches wide at the widest point		X	
g. Flap snap fasteners			
(1) Sockets and studs out of alignment causing flap to bulge or twist when snapped		X	
(2) Center of socket cap less than 5/8 or more than 7/8 inch from edge of flap			X
(3) Off center of length of flap 1/2 or more left and right unevenly positioned, affecting appearance		X	
5. SLEEVES			
a. Sagging, twisted, bulging, or short caused by shortness tightness, or not positioning lining correctly			
b. Undersleeve overlapping topsleeve at inseam			X
c. Undersleeve overlapping topsleeve at elbow seam		X	
d. Sleeve overlapping body parts at joining seam	X		
e. Raise stitching at top of armhole omitted or not extending to sleeve elbow seam or front armhole notch by 1/2 inch or more		X	
f. Knitted wristlets twisted in the attachment to sleeve bottom, affecting appearance		X	

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Classification

Major	Minor	
	A	B
g. Cigarette (and pencil) pocket -under 5-1/2 inches long or under 3-1/4 inches wide, including slide-fastener tape -over 6 inches long or over 3-3/4 inches wide, including slide-fastener tape -pencil point protectors - one or both omitted -front and back pencil openings less than 3/4 or more than 1 inch in width -fastener slide finishing toward bottom of pocket when closed	X	
		X
	X	
		X
6. BACKPART AND SIDE SEAMS a. Front overlapping backs at side seams b. Back darts -uneven in length by 1/2 inch or more -improperly tapered or unevenly located, affecting appearance	X	
		X
		X
	X	
7. INSIDE OF JACKET a. Body lining -tight, short, or twisted, causing body shell to sag, twist, or be full on the outside -not tacked or not securely tacked to the outer shell at armhole seams b. Hanger -end(s) not securely stitched or bartacked -finishing less than 2-3/4 inch or more than 4 inches long -less than 3/8 inch wide -off-center with center of back by 1 inch or more -stitched or bartacked through outer shell		
	X	
	X	
		X
		X
	X	

4.2.2.4 Finished measurement defect. Any finished measurement and tolerance deviating from the nominal measurements and tolerance specified in Table VI shall be classified as a finished measurement defect. Sleeve lengths uneven by 1/2 inch or more shall be classified as a finished measurement defect.

4.2.2.5 Inspection levels. Inspection level II or MIL-STD-105 shall be used for 4.2.2.2 and 4.2.2.3. Inspection level S-3 of MIL-STD-105 shall be used for 4.2.2.4.

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4.2.2.6 Acceptable quality levels. The acceptable quality level expressed in defects per 100 units for 4.2.2.2 and 4.2.2.3 shall be 2.5 for major defects, 15.0 for major and minor A defects, and 40.0 for major and minor A and B defects. The acceptable quality level expressed in defects per 100 units for 4.2.2.4 shall be 4.0 for defects (one class).

4.2.3 Examination of preparation for delivery requirements. An examination shall be made to determine that packaging, packing, and marking requirements have been met. The sample unit shall be one shipping container, fully prepared for delivery, with the exception that it need not be sealed. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 of MIL-STD-105, and the acceptable quality level shall be 2.5 defects per 100 units. The shipping containers, fully prepared for delivery shall be examined for defects of closure and shall be scored in accordance with the following:

<u>Examine</u>	<u>Defect</u>
Marking (exterior and interior)	Omitted, incorrect, illegible, and improper size, location, sequence, or method of application.
Materials	Any component missing. Any component damaged, affecting serviceability.
Workmanship	Inadequate application of components, such as incomplete closure of container flaps, loose strapping, inadequate stapling. Bulging or distortion of containers.
Content	Number per shipping container is more or less than required

5. PACKAGING

5.1 Preservation and packaging. Preservation and packaging shall be Level A or C as specified (see 6.2).

5.1.1 Level A. Each jacket with all snap and slide fasteners closed, shall be neatly folded in accordance with commercial practice and in a manner to form a neat compact package. The folded jacket shall be inserted in a snug-fitting square or flat style clear polyethylene film bag of 0.00125-inch thickness (± 20 percent tolerance). The polyethylene bag shall be formed with heat sealed seams that are straight and continuous and parallel to each other and the formed edges of the bag. The bag closure shall be effected by heat sealing with the heat seal made as close as possible to the open end. Excess air within the bag shall be expelled prior to effecting heat seal closure. Alternatively, the final closure of the polyethylene bag may be accomplished by means of a tuck or reverse flap. Each bagged jacket shall be placed in a snug fitting fiberboard box conforming to style RSC, type CF (variety SW) or SF, class domestic, grade 200 of PPP-B-636. Box closure shall be in accordance with the appendix of PPP-B-636.

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5.1.2. Level C. Preservation and packaging which affords adequate protection against deterioration and physical damage during shipment from supply source to the first receiving activity for immediate use. This level may conform to the supplier's commercial practice provided the latter meets the requirements of this level.

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

5.2.1 Level A. Twelve jackets of one size only, packaged as specified in 5.1, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC, grade V2s of PPP-B-636. Each shipping container shall be closed, waterproofed, and reinforced in accordance with the appendix of PPP-B-636. Toward the end of the contract or when the quantity of jackets of the same size is less than the quantity required per container, mixed sizes (see 5.3.2) may be packed within the same shipping container.

5.2.2 Level B. Level B shall be the same as specified in 5.2.1 except the shipping container shall conform to class domestic, type CF, grade 275.

5.2.3 Level C. Packing that will afford adequate protection at the lowest rate against damage during direct shipment from the supply source to the first receiving activity for immediate use. Container shall conform to applicable carrier rules and regulations applicable to the mode of transportation.

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

5.3.1 Additional marking. Each polyethylene bag (see 5.1.1) shall contain a paper label printed black on white with the stock number, the nomenclature and the quantity and size of jacket contained therein. The label shall be inserted in the bag so that it is readable through the polyethylene.

5.3.2 Mixed sizes. Each shipping container packed with mixed sizes (see 5.2.1 and 5.2.2) shall have 5-inch by 4-inch white paper labels securely attached to the end and side. The words "mixed sizes" shall be plainly printed thereon. Under these words shall be legibly printed the quantity and sizes contained therein.

6. NOTES

* 6.1 Intended use. The Type L-2B jacket covered by this specification is intended to be worn by nonflying personnel in the light temperature zone (+50° to +86° Fahrenheit). The jacket is reversible for emergency use.

6.2 Ordering data. Procurement documents should specify the following:

- a. Title, number, and date of this specification.
- b. Size required (see 1.1).
- c. Selection of applicable levels of preservation, packaging and packing (see 5.1 and 5.2).
- d. When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2.1).

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6.3 Color shade. Samples of USAF color shades may be obtained from the procuring activity or as directed by the contracting officer.

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

* 6.5 MIL-J-7448J is being reinstated as revision "K," and the FSC is being changed from "8415" to "8405."

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 these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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