

INCH-POUND**A-A-55291****January 11, 1996****COMMERCIAL ITEM DESCRIPTION****JACKET, UTILITY, UNISEX**

The General Services Administration has authorized the use of this commercial item description as a replacement for MIL-J-87058 and MIL-J-82293 for all Federal agencies.

1. **Scope.** This document covers the requirements for a unisex utility jacket fabricated of polyester/cotton blend poplin, treated with a durable water repellent finish.

2. **Classification.** The jacket shall be of one type in the following lengths and sizes:

Schedule of Sizes

X-Short	Short	Regular	Long	X-Long
XX-Small X-Small Small Medium	X-Small Small Medium Large	X-Small Small Medium Large X-Large	Small Medium Large X-Large	Medium Large X-Large

3. SALIENT CHARACTERISTICS

3.1 **Description.** The jacket shall be fully lined, waist-length, with two front slash pockets, inside front patch pockets, front slide fastener closure with wind flap on left front, raglan sleeves with recessed knitted wrist cuffs, and a knitted waistband. The jacket shall have a fold down collar with a collar tab and a hanger loop of basic material or braid finishing 2 to 2-3/4 inches long at center back neckline. The wind flap and collar tab closure shall be secured with hook and loop fastener tape; the inside patch pockets shall have hook and loop fastener tape closure. The collar, pocket welts, collar tab and wind flap shall be interlined (fused).

Beneficial comments (recommendations, additions, deletions, clarifications, etc.) and any data which may improve this document should be sent to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DPSC-FNSC, 2800 South 20th Street, Philadelphia, PA 19145-5099.

AMSC N/A

FSC 8415

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3.2 Stitching. All stitching shall be 10 to 14 stitches per inch. Front slash inner pocket shall be joined with a safety stitch or double needle stitched. The collar and the wind flap shall be topstitched 1/4 inch gage. The pocket welt and the collar tab shall be topstitched 1/8 inch gage. The top and bottom edges of pocket welts shall be bartacked. Both sides of the opening and bottom ends of slide fastener shall be bartacked to jacket.

3.3 Pocket welt dimensions. The finished length of the pocket welts for the X-Short and Short jackets shall be 5-3/4 \pm 1/4 inches; for the Regular, Long and X-Long jackets 6-1/4 \pm 1/4 inches. The finished width of the pocket welts for all sizes shall be 1-1/8 \pm 1/8 inches.

3.4 Material

3.4.1 Basic Material. The basic material for the jacket outershell, front facing and inside patch pockets shall be a blend of 65 \pm 3 percent polyester and 35 \pm 3 percent combed cotton poplin. The cloth shall be plain weave with 2 ply warp yarns, singles filling yarns, and an approved fluoro-carbon type water repellent treatment. The color shall be Blue 3346 and shall match the standard sample. The finished cloth shall conform to the requirements listed in Table I below.

TABLE I - PHYSICAL REQUIREMENTS

Characteristic	Requirement	Test Method
Weave	Plain	Certificate of Compliance
Yarns/inch (min.)	110 warp 68 filling	ASTM D3775 <u>1/</u>
Weight (oz./yd. ²)	5.5 - 6.8	ASTM D3776, Option C <u>1/</u>
Colorfastness to:		
Crocking	Grade 2.5	AATCC 8
Laundering (after 3 cycles)	"Good"	AATCC 61, Test 3A <u>2/</u>
Perspiration	"Good"	AATCC 15 <u>3/</u>
Light (after 40 standard fading hours)	"Good"	AATCC 16, Option A
Breaking strength (min.)	185 lbs. warp 70 lbs. filling	ASTM D1682
Air permeability (max.)	4.0	ASTM D737
Dimensional stability (max.)	2.0 percent warp & filling	AATCC 96, Option Vc <u>4/</u>
Spray rating	100, 100, 90	AATCC 22 <u>5/</u>
Dynamic absorption (max.) percent		
Initial	18 percent	AATCC 70
After 3 launderings	18 percent	5556 <u>6/</u> & AATCC 70 <u>7/</u>

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TABLE I - PHYSICAL REQUIREMENTS CONT'D.

Characteristic	Requirement	Test Method
Hydrostatic pressure, cm (min.)		
Initial	35	ASTM D751 <u>8/</u>
After 3 launderings (cotton method)	35	5556 <u>6/</u> & ASTM D751 <u>8/</u>
Resistance to Organic Liquid (min.)		
Initial	N-Tetradecane	AATCC 118
After 3 launderings (cotton method)	N-Tetradecane	5556 <u>6/</u> & AATCC 118

- 1/ Samples shall be conditioned as directed in ASTM D1776 "Practice for Conditioning Textiles for Testing" prior to testing.
- 2/ The specimen must be dried after each of the three laundering cycles. The soap solution shall contain 0.5 percent by weight, P-D-245, Detergent, Laundry, and Hand Dishwashing (Granular) Type II, in water hardness not over 50 parts per million. The weight of the specimen shall be 4.0 \pm 0.5 grams for yarn and fabrics and the rotating time shall be 30 minutes with ten stainless steel balls in each cylinder. Only the stain on the cotton fibers of the color transfer cloth shall be evaluated.
- 3/ The test for colorfastness for acid and alkaline solution shall apply.
- 4/ Sample size shall be 22 by 22 inches with 18 inch benchmarks, 6 inches apart. Use Drying Procedure (D) or samples may be dried using a thermostatically controlled circulating oven at 221° - 230° F until dried. The sample shall be allowed to cool for 5 minutes, sprinkled with water to permit damp pressing, and allowed to stand in this condition for 5 minutes. The dampened specimens shall be pressed with a flatbed press as described in AATCC 96 Section 5.2 or a hand iron as described in AATCC 96 Section 5.10 at a temperature of 275° to 300° F. Section 7.4 of AATCC 96 shall not apply.
- 5/ Each sample shall be 7 inches by 7 inches.
- 6/ Refers to FED-STD-191 Textile Test Methods.
- 7/ Specimens shall be subjected to 3 complete cycles (wash and dry) prior to determination of hydrostatic height, dynamic absorption and resistance to organic liquid after laundering.
- 8/ Procedure A - Pressure application by Mullen type Hydrostatic Tester (or equal), sections 34-37, Procedure 1 (except that the rate of displacement shall be as specified in section 34.2) shall be used.

3.4.2 Lining. The sewn in jacket lining shall consist of a polyester twill facing cloth, batting, and scrim backing cloth, respectively. The three layers shall be quilted in a 6 inch dumbbell pattern.

3.4.2.1 Facing cloth. The lining facing cloth shall consist of a polyester 2/1 right hand twill, which shall approximate the shade of the basic material. The minimum yarns per inch shall be 120 warp and 66 filling; the minimum weight shall be 2.2 oz./yd.². The lining fabric shall show "good" colorfastness to perspiration when tested as specified in AATCC 15 (the test for colorfastness for acid and alkaline solution shall apply), and a minimum rating of 3.5 when tested for colorfastness to crocking as specified in AATCC 8.

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3.4.2.2 Batting. The batting for the quilted lining shall consist of 65 percent polyolefin/35 percent polyester (by weight). The polyolefin micro fibers shall be in the 2 to 10 micron range. The weight shall be 2.9 to 3.7 oz./yd.². The thickness shall be 0.18 to 0.22 inches when tested at 0.01 psi, using a 5 inch diameter presser foot (see 7.3).

3.4.2.3 Scrim. The backing cloth for the batting shall be a continuous, spunbonded, nonwoven, nylon scrim cloth with a minimum weight of 0.3 oz./yd.² (see 7.3).

3.4.3 Knitted wrist cuffs and waistband. The wrist cuffs and waistband shall consist of a 2 ply, 1x1 rib knit of 100 percent polyester 2 ply yarns, with laid in elastic yarn in the waistband only. The wrist cuffs shall be seamless and shall finish 2-3/4 \pm 1/4 inches wide by 4 \pm 1/4 inches long when folded; the waistband shall finish 3 \pm 1/4 inches wide. The color of the cuffs and waistband shall approximate the shade of the outershell material and shall show "good" colorfastness to light and laundering when tested as specified in AATCC 16, Option A, and AATCC 61, Test 3A (footnote 2/ from Table I applies), and a minimum rating of 3.5 when tested for colorfastness to crocking as specified in AATCC 8.

3.4.4 Slide fastener. The slide fastener shall be separating, non-reversible, size medium special, with brass slider, brass pull and chain. The slide fastener tape shall approximate the shade of the basic material. The brass slider shall have a long tab pull. The separating pin shall be on the left side of the jacket as worn. The bottom stop shall be even with the bottom of jacket, and the beginning of chain even with finished neckline of jacket. All components shall be furnished by the same supplier.

3.4.5 Thread. The thread for all seaming and stitching shall be 31 to 45 Tex, 2 or 3 ply, cotton covered polyester thread. The color shall approximate the shade of the basic material, and shall show colorfastness to crocking, laundering, perspiration and light equal to the requirements for the basic material.

3.4.6 Hook and loop fastener tape. The hook and loop fastener tape used for the wind flap, collar tab closure, and inside patch pocket closure shall be 1 inch wide and black. The fastener tape shall be stitched to the jacket on all four sides, 1/8 inch gage. The wind flap shall have six pieces of hook fastener tape. The right front shall have six corresponding pieces of loop fastener tape. The underside of the collar shall have two pieces of loop fastener tape, and the collar tab shall have 2 pieces of hook fastener tape, one on each side. Each of the inside patch pockets shall have loop fastener tape on the inside of pocket and hook fastener tape on the front lining. Placement shall be as indicated on the pattern.

3.4.7 Fusible interlining. The interlining for the collar, pocket welts, welt pocket stays, collar tab and wind flap shall be a fusible interlining suitable for the intended purpose.

3.5 Labels

3.5.1 Combination label. Each jacket shall have a white, commercial type combination identification/instruction/personal label sewn to jacket lining, centered approximately 2 inches below the center back collar seam. The inscription shall show "good" colorfastness to laundering and shall containing the following information:

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NAME:
SERVICE NO.:
JACKET, UTILITY, UNISEX
OUTERSHELL FABRIC: 65% POLYESTER/35% COTTON
CONTRACT NO.:
NAME OF CONTRACTOR/MANUFACTURER

LAUNDERING INSTRUCTIONS

Spot wash badly soiled areas
Machine Wash - Hot
140° using detergent - rinse at least 3 times
Machine spin or squeeze by hand
DO NOT BLEACH
Machine dry at moderate heat or hang to dry
Press with moderately hot iron (synthetic setting)
DO NOT DRYCLEAN

OR

Use NAVEDTRA 414-01-45-81, Formula II

3.5.2 Size label. Each jacket shall have a white, commercial type size label centered in the inside collar seam. The inscription shall show "good" colorfastness to laundering and shall contain the following information:

SIZE: Medium - Long (Example)
STOCK NO.: 8415-00-000-0000 (Example)

3.5.3 Removable size ticket. Each jacket shall have a commercial type removable size ticket attached to the outside of the lower left sleeve. The ticket shall be approximately 1-1/2 inches long and 2 inches high, made of a suitable plain white cardboard. The size shall be printed or stamped on the upper left hand corner in black or blue ink; the lettering shall be 1/4 inch in height.

3.5.4 Label/tag. Each jacket shall be individually bar-coded with a paper tag for personal clothing items. The paper tag shall be standard bleached sulfate having a basis weight of 100 pounds. The paper used for the tags shall have a smooth finish to accept thermal transfer and direct printing. The tags shall have a hole and shall be attached to each item by a fastener, clearly legible and readable by a scanner. The bar coding element shall be a 13 digit national stock number (NSN). The bar code type shall be a medium to high code density and shall be located so that it is completely visible on the item when it is folded and/or packaged as specified and so that it causes no damage to the item.

3.6 Patterns. The Government shall furnish a single size pattern. Upon request, a complete set of patterns may be provided. The pattern generally provides for a seam allowance of 3/8 inch, with the exception of the jacket fronts, which have a seam allowance of 1/2 inch for attaching the slide fastener. The government patterns may be used to create the contractor's working patterns, however the design and measurements of the patterns shall not be altered in any way, with the exception of minor modifications to accommodate automation.

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3.7 Pattern parts. The component parts of the jacket shall be cut from the specified material in accordance with pattern parts indicated in Table II.

TABLE II - LIST OF PATTERN PARTS

<u>Material</u>	<u>Nomenclature of pattern parts</u>	<u>Cut parts</u>	
Basic Material	Front	Cut 2	
	Back	Cut 1	
	Sleeve	Cut 2	
	Front facing	Cut 2	
	Top collar	Cut 1	
	Under collar	Cut 1	
	Windflap	Cut 1	
	Inside patch pocket	Cut 2	
	Pocket welt	Cut 2	<u>1/</u>
	Inner pocket	Cut 2	<u>1/</u>
	Outer pocket	Cut 2	<u>1/</u>
	Facing extension	Cut 2	
	Collar tab	Cut 2	
	Quilted Lining	Front lining	Cut 2
Back lining		Cut 1	
Sleeve lining		Cut 2	
Interlining	Collar interlining	Cut 2	
	Pocket welt interlining	Cut 2	
	Windflap interlining	Cut 1	
	Collar tab interlining	Cut 1	
	Welt pocket stay interlining	Cut 2	<u>1/</u>
Ribbing	Waistband	Cut 1	

1/ Patterns are sized in the following groups: (X-Short and Short) and (Regular, Long and X-Long).

3.8 Finished measurements. The finished jacket shall conform to the measurements in Table III. All measurements are indicated in inches; the jacket shall be measured laying flat and smooth, with the front slide fastener completely closed.

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TABLE III - FINISHED MEASUREMENTS

Size	Chest (A)	Bottom (B)	Sleeve Length (C)				
			X-Short	Short	Regular	Long	X-Long
XX-Small	41	28	30-1/4				
X-Small	45	30-1/2	31	32	32-1/2		
Small	49	33	31-3/4	32-3/4	33-1/4	33-3/4	
Medium	53	35-1/2	32-1/2	33-1/2	34	34-1/2	35
Large	57	38		34-1/4	34-3/4	35-1/4	35-3/4
X-Large	60-7/8	40-1/2			35-1/4	35-3/4	36-1/4
Tolerance	± 1	± 1	$\pm 1/2$	$\pm 1/2$	$\pm 1/2$	$\pm 1/2$	$\pm 1/2$

Center Back Length (D)					
Size	X-Short	Short	Regular	Long	X-Long
XX-Small	24-1/2				
X-Small	25	26	27		
Small	25-1/2	26-1/2	27-1/2	29	
Medium	26	27	28	29-1/2	31
Large		27-1/2	28-1/2	30	31-1/2
X-Large			29	30-1/2	32
Tolerance	$\pm 1/2$	$\pm 1/2$	$\pm 1/2$	$\pm 1/2$	$\pm 1/2$

- (A) Chest - Twice the measurement taken across front at base of armhole seam from folded edge to folded edge.
- (B) Bottom - Twice the measurement taken from folded edge to folded edge across the bottom of relaxed waistband ribbing.
- (C) Sleeve Length - Measurement taken from center of sleeve at neck seam down to bottom of ribbed cuff.
- (D) Center Back - Measurement taken from center of back undercollar seam to bottom of jacket.

4. Regulatory requirements. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR) to the maximum extent practicable.

5. QUALITY ASSURANCE PROVISIONS

5.1 Certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this commercial item description, and that the product conforms to the producer's own drawings, specifications, standards and quality assurance

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practices. The government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract or purchase order.

5.2 Market acceptance criteria. The item offered, or a generic equivalent, must have been sold to the commercial market or to the Government for at least two years.

5.3 Visual examination. Each jacket shall be examined for the defects listed below in accordance with ANSI/ASQC-Z1.4.

EXAMINATION	DEFECT
Material and workmanship	<p>Component part omitted, not cut as specified, distorted, full, tight, or twisted; any part of jacket caught in any unrelated row of stitching</p> <p>Hole, cut, tear, smash, burn, drill hole, run, thin place, dye streak, color not as specified, misweave, knot or slub</p> <p>Any finished measurement not as specified</p> <p>Seam: puckered, distorted, pleated, wavy, twisted, irregular or open, loose or tight stitch tension, broken or missing thread or stitch, needle chew, visible mend, edge or raised stitching sewn too close to edge, resulting in damage to cloth, seam allowance not as specified, raw edge</p> <p>Length of fronts at closure uneven at neck or bottom edge by 1/4 inch or more</p> <p>Hanger loop omitted, off center by more than 1 inch or ends insecurely caught in neck seam stitching</p> <p>Permanent fold, pleat, or crease</p> <p>Front pockets: not uniform in size or shape, out of horizontal alignment by more than 1/4 inch</p> <p>Collar points uneven in length by more than 1/4 inch</p> <p>Slide fastener does not mesh properly, slider binds, catches, sticks or disengages from coils, fastener not the type, style, or size specified, slide fastener tape not completely caught in stitching, tape set on too loose or too tight, causing bulge, twist or fullness on outside when fastener is closed</p> <p>Fusible interlining: bubbling, delamination, bleed through</p>

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EXAMINATION	DEFECT
Shade	Shade variation within a part or between parts, shade of cuffs and waistband not as specified Thread, slide fastener, or hook and loop fastener tape color not as specified
Cleanness	Spot, stain, thread ends not trimmed or removed Rancid odor
Labels	Omitted, incorrect, illegible, misplaced, not attached as specified, or stitched through printing; bar-codes not scannable or readable by scanner; human-readable interpretation (HRI) omitted or illegible; bar code not visible on folded, packaged item; bar code causes damage to the item
Packaging	Any items not packaged in accordance with the contract or purchase order

5.4 Warranty. The item offered shall include the standard warranty given to the commercial market beginning with the date of delivery of the individual item.

5.5 Acceptance criteria. Acceptance criteria shall be as specified in the contract or purchase order.

6. **Packaging**. The preservation, packing, and marking shall be as specified in the contract or purchase order.

7. NOTES

7.1 Sources of Government documents. Copies of military and Federal documents are available from:

Standardization Documents Order Desk
Bldg. 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094

7.2 Sources of non-Government documents.

AATCC Test Methods - Applications for copies should be addressed to:
American Association of Textile Chemists and Colorists
P.O. Box 12215
Triangle Park, NC 27709-2215

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ASTM Test Methods - Applications for copies should be addressed to:
American Society for Testing and Materials
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

ANSI/ASQC Z1/4 - Sampling Procedures and Table for Inspection by Attributes
American National Standards Institute
11 42nd Street
New York, NY 10036

7.3 Sources of supply. The requirements for batting (paragraph 3.4.2.2) can be met with 3M's 3.2 oz./yd.² "Thinsulate" style C100. The requirements for scrim (paragraph 3.4.2.3) can be met with Fiberwebb North America's "Cerex-Type 23".

MILITARY INTERESTS:

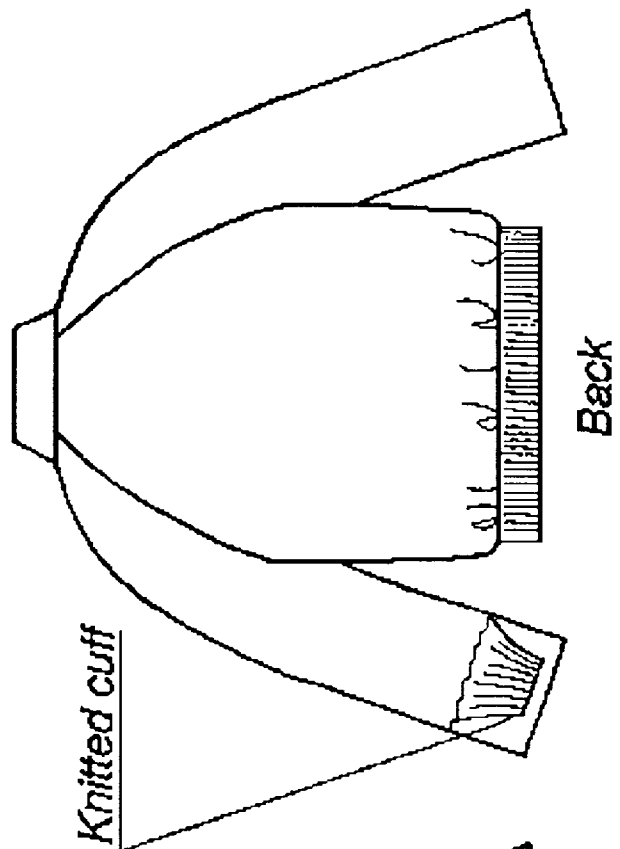
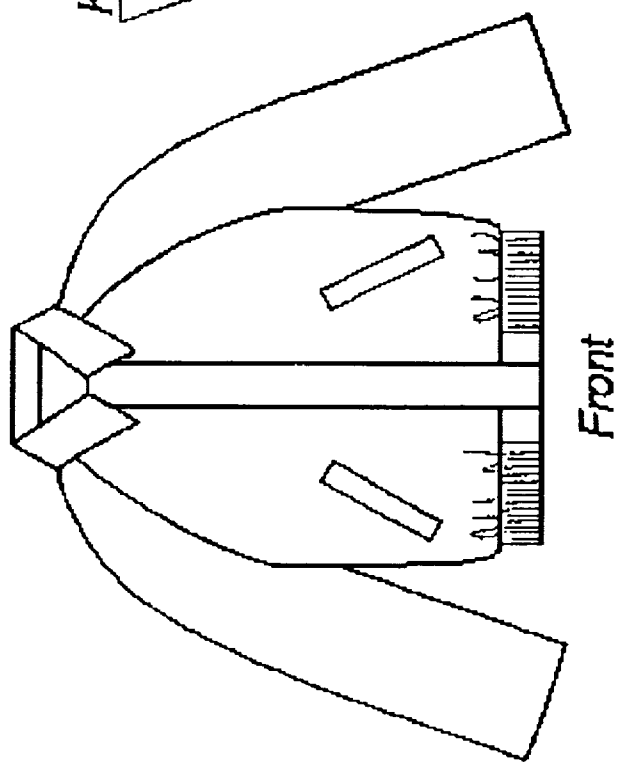
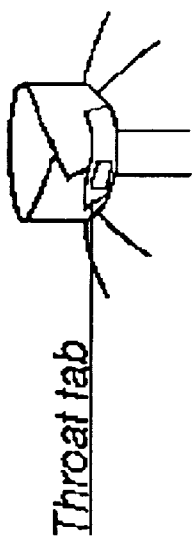
Custodian:
Navy - NU

Civil Agency Coordinating Activity:
GSA - FSS

Preparing Activity:
DLA - CT

(Project No. 8415-0069)

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Jacket, Utility, Unisex