

INCH-POUND

A-A-55085
06 April 1993

COMMERCIAL ITEM DESCRIPTION

TROUSERS, MEN'S, POLYESTER/COTTON

The General Services Administration has authorized the use of this Commercial Item Description (CID) as a replacement for MIL-T-41834.

Abstract. This Commercial Item Description covers the requirements for men's trousers made of polyester/cotton blended twill fabrics. The trousers are intended for wear by the male military personnel of the Navy as part of the semi-dress uniform.

Classification. The trousers shall be of one type in the following classes, sizes, and lengths:

Class 3. Trousers, Polyester/Cotton, Blue 3362

Sizes. 28, 30, 32, 34, 36, 38, 40, 42

Lengths. Short, Regular, Long, and X-Long

Class 4. Trousers, Polyester/Cotton, Khaki 3729

Sizes. 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42

Lengths. Short, Regular, Long, and X-Long

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DPSC-FSSD, 2800 South 20th Street, Philadelphia, PA 19101-8419, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8405

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A-A-55085

Salient Characteristics. The trousers shall be of single needle construction with separate interlined waistband, front slide fastener fly, straight side pockets, uncut darts, unhemmed bottom, seat seam outlet, hook and eye waistband, two hip pockets, button and buttonhole closure on the left hip pocket. The following seam allowances shall be overedge stitched; the inseam, outseam below bottom pocket opening shall finish 6 to 6-1/2 inches between bartacks.

The back hip pockets shall finish 5-3/4 to 6-1/4 inches deep. The pocket openings shall be uniform in width, with welts measuring 1/8 to 3/16 inch. All bartacks shall be made by machine and shall finish 3/8 to 1/2 inch long. The trousers shall be bartacked at the base of the fly in line with the left fly J-stitching, and at the ends of all pocket openings; the bartacks shall be perpendicular to the opening and shall catch the pocketing. The hip pocket on wearer's left shall have a buttonhole of the eyelet end, taper bar type, with ends tacked, worked over gimp, with a cut length of 5/8 to 3/4 inch. The buttonhole shall be vertical, in the center of the pocket with the inside edge of eyelet 3/16 to 5/16 inch below the joining seam of welt edge. The seat seam shall be joined with a double needle seat seamer. The waistband lining shall finish 2 (\pm 1/8) inches wide. The bottom edge of waistband shall be raised stitched 1/16 to 1/8 inch from the seam, through waistband and seam allowances.

The belt loops shall be cut from the basic material and shall measure 5/8 to 3/4 inch wide. The belt loops, with the exception of the center back loop, shall be sewn into the seam at the bottom of the waistband and bartacked 1/8 inch below folded top end, which shall be aligned with the top edge of waistband. The belt loop opening shall measure 1-1/2 to 1-5/8 inches finished. The center back loop shall be centered over the seat seam and bartacked on top and bottom, with top folded edge even with top of waistband. There shall be seven loops for sizes up to and including size 37, and eight loops for size 38 and above (see Figure 1). The location for the extra loop for larger sizes shall be positioned on right front 1-1/4 to 1-3/4 inches from right fly joining seam.

Material. The basic material for the trousers shall be a dyed polyester/cotton 2 up 1 down, right-hand twill with a blend of no less than 50% polyester, with the remainder of combed cotton, and a minimum weight of 6.8 oz/sq yd. The color for the class 3 trousers shall be Blue (Shade No. 3362), matching piece number 78349. The color for the class 4 trousers shall be Khaki (Shade No. 3729), matching piece number 80301. The finished cloth shall conform to the requirements specified in Table I:

A-A-55085

Table 1.

Characteristic	Requirement (Min)	Test method
Weight	6.8 oz/sq yd	ASTM-D 3776-85 Option C
Non-fibrous material	6.0 max.	ASTM-D 629-88 Sec 9
Breaking strength (min.)	170 lbs. - warp 85 lbs. - filling	ASTM-D 5034-90
Yarns per inch (min.)	102 ends/inch 50 pick/inch	ASTM-D 3775-85
Tearing strength (min.)	7.0 lbs. - warp 5.0 lbs. - filling	ASTM-D 1424-83
Crease resistant finish	<u>5</u> /	<u>6</u> /
Seam efficiency	Not less than 90% min.	FED-STD-5110
Colorfastness to: Laundering	Class 4 <u>1</u> / <u>3</u> /	AATCC 61-1989
Light	Class 4 <u>3</u> /	AATCC 16-1990 Option A
Perspiration	Class 4 <u>3</u> /	AATCC 15-1989
Crocking	Munsell Value 8.5 <u>2</u> /	AATCC 8-1988
Shrinkage	2.0% - warp 2.0% - fill <u>4</u> /	AATCC 96-1988 Drying method A Washing method IC

1/ Using 10 stainless steel balls, drying after each of 3 laundering cycles. only the stain on the cotton and polyester fibers of the color transfer cloth shall be evaluated.

2/ Munsell Scale

3/ AATCC Grey Scale for Color Change

4/ Test piece shall measure 22 x 22 inches, with 18 inch benchmarks.

5/ The resin finish used to provide a crease resistant finished shall be of a non-chlorine retentive type and the material shall show no loss of colorfastness or no more discoloration than the standard sample.

6/ unless otherwise specified, a certificate of compliance shall be submitted and will acceptable for the stated requirements.

A-A-55085

Pocketing and lining. The material for the pockets, waistband lining, and right fly lining shall be twill cloth conforming to class 1 of A-A-52106. The color shall be Black 423 for class 3 trousers; natural, unbleached, or white for class 4 trousers.

Interlining.

Class 3 trousers. The material for interlining waistbands for class 3 trousers shall be a polyester or a polyester/cellulose blend non-woven conforming to Type V of A-A-50186.

Class 4 trousers. The material for interlining waistbands for class 4 trousers shall be bleached or unbleached cotton buckram conforming to Type II of A-A-50186. As an alternate, the material for interlining the waistband may be a polyester or polyester/cellulose blend non-woven material conforming to Type V of A-A-50186.

Waistband stabilizer. The material for the waistband stabilizer shall be interlining cloth conforming to Type I of A-A-52108.

Thread. The thread shall be cotton-covered polyester core and shall conform to A-A-50199.

<u>Use</u>	<u>Ticket No.</u>	<u>Ply</u>
Seaming and stitching	50, 70	2 or 3
Button sewing, bartacks, and buttonholes	50	2 or 3
Overedging	70	2 or 3

The color of the thread for the class 3 trousers shall be Blue AT, CA 66060 and the class 4 trousers shall be Khaki P-1, CA 66019. The colored thread shall show fastness to light and laundering.

Gimp. The gimp for reinforcing buttonholes shall be a no. 8 gimp conforming to Type I or II of A-A-50198, matching the color of thread, and shall show "good" colorfastness to laundering.

Buttons. The buttons for the left hip pocket shall be Type II, class D, style 4, 22-line, conforming to V-B-871. The color of the buttons for the class 3 trousers shall be Black BT, Cable 62001 and the class 4 trousers shall be Khaki AL, Cable 62026.

A-A-55085

Slide fastener. The slide fastener shall be non-separating, non reversible, size LM with a cam or pin lock and short tab pull. All metal components of the slide fastener shall be brass and the semi-automatic pin lock cover and spring shall be stainless steel. A staple bottom stop is required. The color of the tape shall be the approximate shade of the basic material and shall show "good" colorfastness to laundering.

Hook and eye. The hook and eye for the waistband shall be North and Judd (Hook flex H-49 and E-50), Universal Button Co. (Talon #7, #8 hook and #8 eye or #85 eye), Patwin Inc., (Slim-Slack with MB eye) or equal. The finish of both components shall be nickel plate.

Sizes and Measurements. The finished trousers shall conform to the measurements below.

Table II. - Sizes and measurements

Waist		Inseam (B)				Bottom (C)			
Size	(A)	S	R	L	XL	S	R	L	XL
27	27	32	34	36	38	18-1/4	18-1/4	18-1/4	18-1/4
28	28	32	34	36	38	18-1/4	18-1/4	18-1/4	18-1/4
29	29	32	34	36	38	18-1/2	18-1/2	18-1/2	18-1/2
30	30	32	34	36	38	18-1/2	18-1/2	18-1/2	18-1/2
31	31	32	34	36	38	18-3/4	18-3/4	18-3/4	18-3/4
32	32	32	34	36	38	18-3/4	18-3/4	18-3/4	18-3/4
33	33	32	34	36	38	19	19	19	19
34	34	32	34	36	38	19	19	19	19
35	35	32	34	36	38	19-1/4	19-1/4	19-1/4	19-1/4
36	36	32	34	36	38	19-1/4	19-1/4	19-1/4	19-1/4
37	37	32	34	36	38	19-1/2	19-1/2	19-1/2	19-1/2
38	38	32	34	36	38	19-1/2	19-1/2	19-1/2	19-1/2
39	39	32	34	36	38	19-3/4	19-3/4	19-3/4	19-3/4
40	40	32	34	36	38	19-3/4	19-3/4	19-3/4	19-3/4
42	42	32	34	36	38	20	20	20	20

Tolerances:

$\pm 1/2$	+1	+1	+1	+1	$\pm 1/2$	$\pm 1/2$	$\pm 1/2$	+ 1/2
	-1/2	-1/2	-1/2	-1/2				

A-A-55085

Table II. - Sizes and measurements - cont.

Size	Seat (D)
27	37-1/2
28	38-1/2
29	39-1/2
30	40-1/2
31	41-1/2
32	42-1/2
33	43-1/2
34	44-1/2
35	45-1/2
36	46
37	47
38	47-1/2
39	48
40	48-1/2
42	50-1/2
Tolerance: + 3/4, -1/2	

(A) - With slide fastener closed and waistband hooked, measure along top edge of waistband from folded edge to folded edge.

(B) - Measure along inseam from crotch seam to (unhemmed) bottom edge of leg.

(C) - Measure across unhemmed bottom edge of leg. Multiply by two.

(D) - Measure across front of trousers from folded edge to folded edge, 1 inch above fly bartack. Multiply by two.

Label/markings. A commercial type label is acceptable, provided that an additional printed cloth label containing the contractor's name, contract number, size, fiber content and National Stock Number (NSN) is caught on the stitching of the commercial label. The label shall be stitched on 4 sides to the right side pocketing, facing the wearer. The commercial label shall include the following

MACHINE WASH, WARM (120⁰ F MAX)
USE MILD SOAP OR DETERGENT
DO NOT BLEACH OR STARCH

TUMBLE DRY, MEDIUM HEAT, REMOVE PROMPTLY
TOUCH UP WITH IRON - LOW SETTING
OR
USE NAVEDTRA 414-01-45-81 FORMULA II

A-A-55085

Size label. The size label shall be applied by a black marking medium or shall be impregnated and coated with a permanent pigmented acrylic composition. The inscription and format shall be as follows:

34 R (EXAMPLE)
8405-00-000-0000

NOTE: The lengths (Short, Regular, Long, and X-Long) may be abbreviated as S, R, L and XL.

Pressing. All pressing shall be accomplished with a heated pressing iron or machine.

Patterns. The Government shall furnish a single size pattern. The contractor is responsible for grading patterns for additional sizes. The pattern generally provides for a seam allowance of 3/8 inch for joining seams, except for seat seams, inseams, and outseams, which shall have a seam allowance of 1/2 inch. The Government patterns shall be used to make the contractor's working patterns. The government patterns shall not be altered in any way. The working patterns may be modified to accommodate automation; however, if the working patterns are modified the design and measurements must be maintained as intended by Government patterns. Commercial patterns may be used in lieu of conform to the cited design and finished measurements.

Product Demonstration Model. When required, offerers shall submit samples of their intended production. The Product Demonstration Model will consist of units independently developed. Product Demonstration Models will be analyzed and evaluated by the government. Evaluation criteria and basis for award are contained in the solicitation. Product Demonstration Models will be retained by the government. The manufacturer's approved Demonstration Model shall be used as a manufacturing standard for conformance to the quality, workmanship and style requirements of this document and patterns. One (1) Product Demonstration Model approved by DPSC under the resultant contract will serve as a manufacturing standard for the corresponding production items delivered under this contract. Offerers are advised that the Product Demonstration Model does not relieve the successful offerer of his responsibility to perform in accordance with the Commercial Item Description specified above.

A-A-55085

Quality Assurance

Responsibility of inspection. The contractor is responsible for assuring the trousers conform to the requirements of this document and the demonstration model. The contractor is also responsible for both inprocess and final inspection for the entire contract quantity. The Government reserves the right to check any trouser(s) at any time during or after production for design, construction, workmanship, appearance, quality, and conformance to the Demonstration Model and finished dimensions on figure 1 and the measurement chart. Defective items shall be adjusted or replaced by the contractor.

First lot. A first lot consisting of not less than 100 trousers shall be submitted and inspected for compliance with the design, construction, workmanship, appearance, quality, and dimensional requirements stated herein and with the approved demonstration model.

Certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices. The Government reserves the rights 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. Reliance on contractor quality assurance systems shall not relieve the contractor of the responsibility of ensuring all products or supplies submitted to the Government for acceptance comply with all requirements of the contract.

Examination. Trouser lots shall be inspected in accordance with "Sampling Procedures and Tables for Inspection by Attributes", ANSI/ASQC Z1.4, published by the American Society for Quality Control.

Visual examination. The trousers shall be examined for the defects listed below. The lot size shall be expressed in units of trousers. The sample unit is one trouser. The inspection level shall be II and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5.

A-A-55085

Defects. After the finished trousers have been thoroughly cleaned with all loose thread, lint, and foreign matter removed, they shall be examined for the following defects:

Table III. - Defects

Examination	Defect
Material and workmanship	Component part full, tight, or twisted
	Any hole, cut, tear, streak, color not as specified, misweave
	Permanent fold, pleat, or crease
	Measurement not as specified, an omitted part
	Seam; puckered, distorted, pleated, irregular or open, loose or tight stitch tension, broken or missing thread or stitch, needle chew
	Any twisted or caught part of trouser in any unrelated row of stitching
	Pressing omitted or not as specified
	Twill line not consistent throughout
	Button or hook and eye missing or broken, or positioned so as to cause a bulge or misaligned waistband
	Any component missing, not as specified, or misplaced
	Label missing, incorrect, or illegible
	Slide fastener not functioning properly
	Any spot, stain, thread ends not trimmed or rancid odor
Shade Variations (on outside)	Any variation in shade within a part or between parts
	Any part cut from ends badly shaded
	Any loops that are required to be cut from same piece of material, shaded.
	Thread color not as specified

A-A-55085

Dimensional examination. The finished trousers shall conform to the dimensions specified. Any dimension that is not within the established tolerance shall be classified as a defect. The sample unit shall be one pair of trouser; the inspection level shall be S-4 and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

Packaging examination. The fully packaged shipping containers shall be examined in accordance with defects listed below. The lot size shall be the number of shipping containers in the inspection lot. The inspection level shall be S-1 and AQL, expressed in terms of defects per hundred units, shall be 4.0.

Examination	Defect
Material	Missing, damaged, not as required.
Content	Number of hoods per shipping container is more or less than required.

Regulatory Requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

Preservation, Packing, and Marking. The preservation, packing, and marking shall be as specified in the contract or order.

Source 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

Source of Nongovernment Documents.

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

(Applications for copies should be addressed to American National Standards Institute, 1430 Broadway, New York, NY 10018-3308.)

A-A-55085

ASTM-D 1424-83 - Standard Test Method for Tear Resistance of Woven Fabrics by Falling - Pendulum (Elmendorf) Apparatus

ASTM-D 3775-85 - Yarns per inch

ASTM-D 3776-85 - Option C - Standard Test Methods for Mass per Unit Area (Weight) of Woven Fabric

ASTM-D 5034-90 - Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Grab test)

(Applications for copies should be addressed to American Society For Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.)

AATCC 8 - Colorfastness to Crocking: AATCC Crockmeter Method

AATCC 15 - Colorfastness to Perspiration

AATCC 16 - Colorfastness to Light

AATCC 61 - Colorfastness to Laundering, Home, and Commercial: Accelerated

AATCC 96 - Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool

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

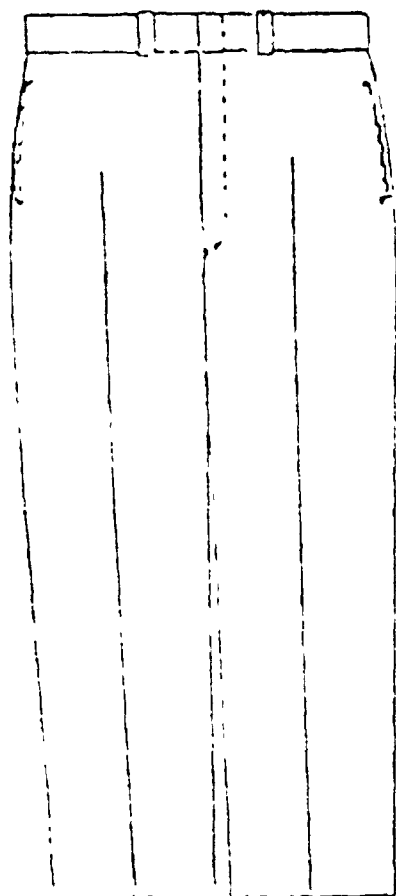
Custodian:
Navy - NU

Civil Agency Coordinating Activity:
GSA - FSS

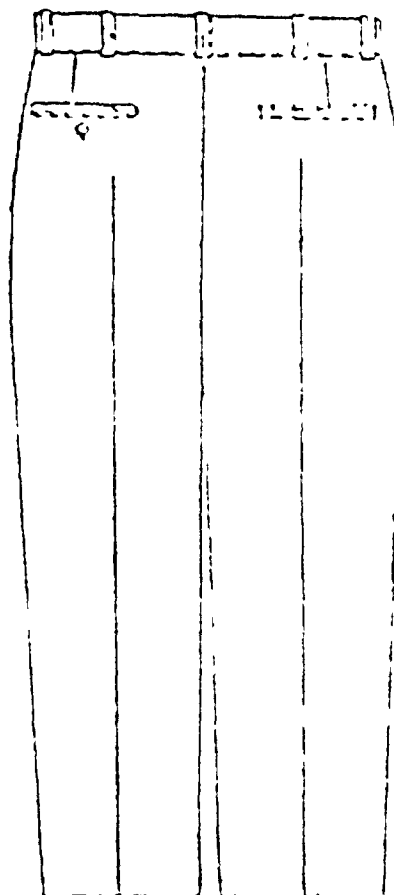
Preparing Activity:
DLA-CT

Project No. 8405-0187

2-2-5(1) 24



FRONT



BACK

FIGURE 1

TROUSERS, MEN'S, POLYESTER/COTTON

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

- 1 The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
- 2 The submitter of this form must complete blocks 4, 5, 6, and 7.
- 3 The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:

1 DOCUMENT NUMBER
A-A-55085

2 DOCUMENT DATE (YYMMDD)
930406

3 DOCUMENT TITLE

TROUSERS, MEN'S, POLYESTER/COTTON

4 NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5 REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)
(1) Commercial
(2) AUTOVON
(If applicable)

7. DATE SUBMITTED
(YYMMDD)

8. PREPARING ACTIVITY

a. NAME

Defense personnel support center
ATTN: DPC-PSD (12-S-L)

b. TELEPHONE (include Area Code)
(1) Commercial

215-7378105

(2) AUTOVON
444-8105

ADDRESS (Include Zip Code)

2800 South 20th Street
P. O. Box 8419

PHILADELPHIA PA 19114-2019

IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT
Defense Quality and Standardization Office
5703 Leeburg Pike, Suite 400, Falls Church, VA 22041-3400
Telephone (703) 730-2330 FAX (703) 730-1350