

INCH-POUND

A-A-55079

1 OCTOBER 1992

## COMMERCIAL ITEM DESCRIPTION

SOCKS: MEN'S, CUSHION SOLE, STRETCH TYPE

The General Services Administration has authorized the use of this Commercial Item Description in preference to Military Specification MIL-S-48.

Abstract. The socks shall be a seamless, stretch-type, with a true 1x1 rib-knit top and a plain knit leg and foot with a terry or tuft stitch on the inside of the high heel, heel, sole, toe and ring toe. The top of the finished sock shall be finished with a well defined, non-ravelling welt, free from loose ends. The toes shall be closed by looping or seaming. The socks are intended for use by male personnel of the Department of Defense.

Classification. The socks shall be of the following classes:

Class 1 - Black  
Class 2 - Olive Green

Sizes. The socks shall be provided in the following sizes:

EXTRA-EXTRA-SMALL	(Sizes 6, 6-1/2, 7)
EXTRA-SMALL	(Sizes 7, 7-1/2, 8, 8-1/2)
SMALL	(Sizes 9, 9-1/2, 10)
MEDIUM	(Sizes 10-1/2, 11, 11-1/2)
LARGE	(Sizes 12 - 13)
EXTRA-LARGE	(Sizes 14, 15, and over)

Note: The sizes (EXTRA-EXTRA-SMALL, EXTRA-SMALL, SMALL, MEDIUM, LARGE, EXTRA-LARGE), may be abbreviated as XXSM, XSM, SM, MED, LG AND XLG.

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 8440

DISTRIBUTION STATEMENT A.

Approved for public release;  
distribution is unlimited.

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## SALIENT CHARACTERISTICS

General Description. The yarn for knitting the top of the foot and leg portion adjacent to the high heel, and for plating the high heel, heel, sole, toe, ring toe, and looping for the toe of the sock shall consist of a single end of merino yarn. The yarn shall be 1/30 worsted count made from fleece, pulled sheep's wool, or a combination of both, not lower in grade than 56's US Standard, and cotton, blended so that the finished yarn contains not less than 50% wool on a dry weight basis. Core cotton yarn will be unacceptable. The merino yarn shall be twisted or plied with a nylon stretch yarn, using knitting twist. The nylon yarn shall be 140 denier  $\pm$  5 percent, 2 ply, stretch yarn. The top and leg portion above the high heel shall be knit using the merino blend yarn. The yarn for the terry stitch on the inside of the high heel, heel, sole, toe, and ring toe shall be made from wool not lower in grade than 50's US Standard. The seaming thread shall be nylon, natural white, commercial size 4, 1 or 2 ply. The elastic yarn for the rib top shall be 105 denier to 110 denier spandex core having a 40 denier raw nylon inner and outer cover. All of the wool for the finished sock shall be treated.

The leg fabric above the top of the extended heel of the finished sock shall have a bursting strength of not less than 70 pounds, and the reinforced (terry stitch) sole fabric of the finished sock shall have a bursting strength of not less than 125 pounds when tested according to Method ASTM-D 3787.

A double thickness of the terry portion (terry to terry) of the finished sock shall have a minimum thickness of 0.115 inches when tested according to Method 5030 of FED-STD-191. The presser foot shall be circular with a diameter of  $0.375 \pm 0.001$  inches and with the moving parts connected therewith weighted so as to apply a total load of nine pounds per square inch. Two readings shall be taken on each of five specimens, the thickness of the sample unit shall be the average of ten results obtained from the specimens tested and shall be reported to the nearest 0.001 inch.

The finished sock shall be tested for felting shrinkage or elongation in foot length and leg length. At each of the specified locations, the felting shrinkage or elongation shall be not more than 6.0 percent when tested according to Method 7561 of FED-STD-191, except that in the felting shrinkage procedure, the period of laundering in the wash wheel shall be 2 hours. Elongation shall be prefixed with a minus (-) sign.

The dyed socks shall show fastness to perspiration, laundering and crocking. The dyed Black socks shall show a minimum of Class 4 fastness to perspiration, a minimum of Class 3 fastness to laundering, and shall show an AATCC Chromatic Transference Scale rating for crocking not less than 1.5. The dyed Olive Green socks shall show a minimum of Class 4 fastness to perspiration and laundering, and shall shown an AATCC Chromatic Transference Scale rating for crocking not less than 3.5, when tested as

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specified according to AATCC Test Method 15 for Perspiration, AATCC Test Method 61 (Test No. 1A), for Laundering, and AATCC Test Method 8 for Crocking.

Measurements and Weight. The measurements and weight of the finished socks shall conform to the below table. All measurements shall be shown in inches unless otherwise specified with the sock laid out flat under no tension:

	See Fig 1	XX-Small	X-Small	Small	Medium	Large	X-Large
<u>Leg:</u> Length (inches) (minimum)	A	15	15	15	15	15	15
<u>Foot:</u> Length (inches) (-0;+1 tol.)	D	5 1/2	7	8 1/2	10	11 1/2	13
<u>Top:</u> Length (inches) (± 1/2 tol.)	B	4	4	4	4	4	4
<u>High Heel:</u> Length (inches) (minimum)	F	4	4	4	4	4	4
<u>Ring toe:</u> Width (inches) (minimum)	G	1	1	1	1	1	1
<u>Crosswise</u> <u>Stretch: 3/</u> (minimum)							
Leg 1/		7	7	7	7	7	7
Foot 2/		7	7	7	7	7	7
<u>Lengthwise</u> <u>Stretch: 4/</u> (minimum)							
Foot		8	9.5	11	13	15.5	18.5
<u>Conditioned Weight:</u> (per dozen pairs) (Ozs.)(Min.) (measured to nearest 0.1 oz.)		26.0	27.5	32.5	30.0	35.5	38.0

1/ Measure across a point between the bottom of heel and bottom of rib top.

2/ Measure across a point midway between heel and toe.

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- 3/ The stretch measurement shall be evaluated on a Houchin modification of a Schieffer machine described in test method 7540 of FED-STD-191. The sock shall be pulled over the form so that the 2 inch edges shall be parallel to the foot of the sock. The indicator pin shall be inserted in the upper 2 inch edge of the separating form and a 10 pound weight slowly applied so as to cause separation of upper and lower slotted form with resultant stretch of the sock under a uniform load over the 2 inch edges. The socks shall be evaluated after the weight has hung freely for 30 seconds and shall be expressed in 0.1 inches as the distance between the upper and lower edges of the separated form.
- 4/ The lengthwise stretch of the socks shall be measured using the sock measuring machine apparatus and measurement of specimen procedure specified in Method 7560 of FED-STD-191. The measurement shall be taken to the nearest 0.1 of an inch and the measured stretch "foot length" obtained in accordance with this procedure shall be considered as the lengthwise foot stretch.

Label/markinq. Each sock shall have a size marking and fiber content marking applied to it just below the instep and centered between the ankle and toe. The color of the marking shall be white. The size label shall be printed with characters a minimum of 5/16 inch in height and shall contain the sock size and the legend.

Workmanship. The socks shall be scoured and boarded on drying forms to their proper shape and size. After completion, the finished socks shall be thoroughly cleaned, and all loose thread, lint, and foreign matter removed. The sock will be examined for commercial type defects only.

Product Demonstration Model. Offerors are required to submit two (2) pairs of socks 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. 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. Offerors are advised that the Product Demonstration Model does not relieve the successful offeror of his responsibility to perform in accordance with this Commercial Item Description.

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

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## QUALITY ASSURANCE

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

Examination. Sock lots shall be inspected in accordance with ANSI/ASQC Z1.4, published by the American Society for Quality Control.

Visual Examination. The inspection level shall be I and the AQL, expressed in terms of defects per hundred units, shall be 4.0. The lot size shall be expressed in units of socks. The sample unit shall be one sock and the selection shall be by pairs. Applicable material knitting defects shall be as defined in MIL-STD-1491.

Defects. The sock shall be examined for the following defects: Any hole, runs, or dropped stitch (including holes looping or seaming); thin area or mends; welt omitted, cut, frayed or ravelled; noticeable variation in shade between two socks of a pair; variation in size in pair; ring toe omitted, terry stitch omitted; non-uniform in overall appearance, not well shaped, slubby yarn, streak, stain, shade bar or spot, rancid or bad odor, any burn or scorch in fabric; skipped stitches, run-offs, or broken thread, resulting in any open seam; any dimension or weight not as required; any spot or stain (outside); thread ends not removed; label missing, incorrect, misplaced, or illegible; measurement of item not as specified.

Dimensional Examination. The finished sock 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 sock; the inspection level shall be S-3 and the AQL shall be 4.0.

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 sample unit shall be one shipping container fully packaged. The inspection level shall be S-2 and AQL, expressed in terms of defects per hundred units, shall be 2.5.

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

End Item Performance Testing. Testing shall be as specified, in accordance with the applicable test methods. The lot size shall be expressed in units of one sock each. The sample size shall be in accordance with the following:

<u>Lot Size</u>	<u>Sample Size</u>
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

#### PACKAGING

Packaging, packing, marking and palletization shall be in accordance with ASTM-D 3951, Standard Practice for Commercial Packaging as specified for shipments to the Department of Defense, including Section 7. Shipping cartons shall be Style RSC-L, Variety SW with DW Liners, Class Domestic, Grade 275. Note: Each shipping container shall contain only one National Stock Number (NSN). Quantities shall be as shown in the Table below:

<u>Quantities and Packing Arrangements</u>	
Class and Size	Quantity Per Shipping Container (Pairs)
Class 1:	
Extra-extra-small through Large	72
Extra-large	48
Class 2:	
Extra-extra-small through Large	70
Extra-Large	50

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Unitized loads, placing boxes on pallet, shall be used whenever total quantity for shipment to one destination exceeds 250 pounds (excluding the pallet) or 20 cubic feet. Pallets shall have a length of 40 inches and a width of 48 inches. Pallet loads including the pallet, shall not exceed 54 inches in height, 43 inches in length and 52 inches in width.

The containers shall be bonded onto wing type commercial 4-way entry pallets.

Note: All palletized loads shall contain only one NSN, to the maximum extent possible. When there is less than a pallet load per NSN, pallets may have containers not of the same NSN, but the pallet shall be clearly marked "mixed" and each applicable NSN shall be listed together with its total quantity.

In addition to any special marking required by the contract or purchase order, shipping containers and palletized unit loads shall be marked in accordance with MIL-STD-129 or ASTM-D 3951, as applicable.

#### NOTES

Source for Government Documents. Copies of Federal documents such as FED-STD-191 are available from:

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

Source for Non-Government Documents.

ANSI/ASQC Z1.4 - Sampling Procedures and Tables  
for Inspection By Attributes is available from:

American National Standards Institute  
1430 Broadway  
New York, NY 10018-3308

Copies of AATCC Test Methods are available from:

American Association of Textile Chemists and Colorists  
P.O. Box 12215  
Research Triangle Park, NC 27709-2215

Copies of ASTM Test Methods are available from:

American Society for Testing and Materials  
1916 Race Street  
Philadelphia, PA 19103-1187

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**CUSTODIAN:**

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NAVY - NU  
AIR FORCE - 99**

**CIVIL AGENCY COORDINATING  
ACTIVITY:**

**GSA - FSS**

**REVIEW ACTIVITY:**

**ARMY - GL  
AIR FORCE - 11, 45, 82**

**PREPARING ACTIVITY:**

**DLA - CT**

**USER ACTIVITY:**

**NAVY - MC**

**PROJECT NO.**

**8440-0199**



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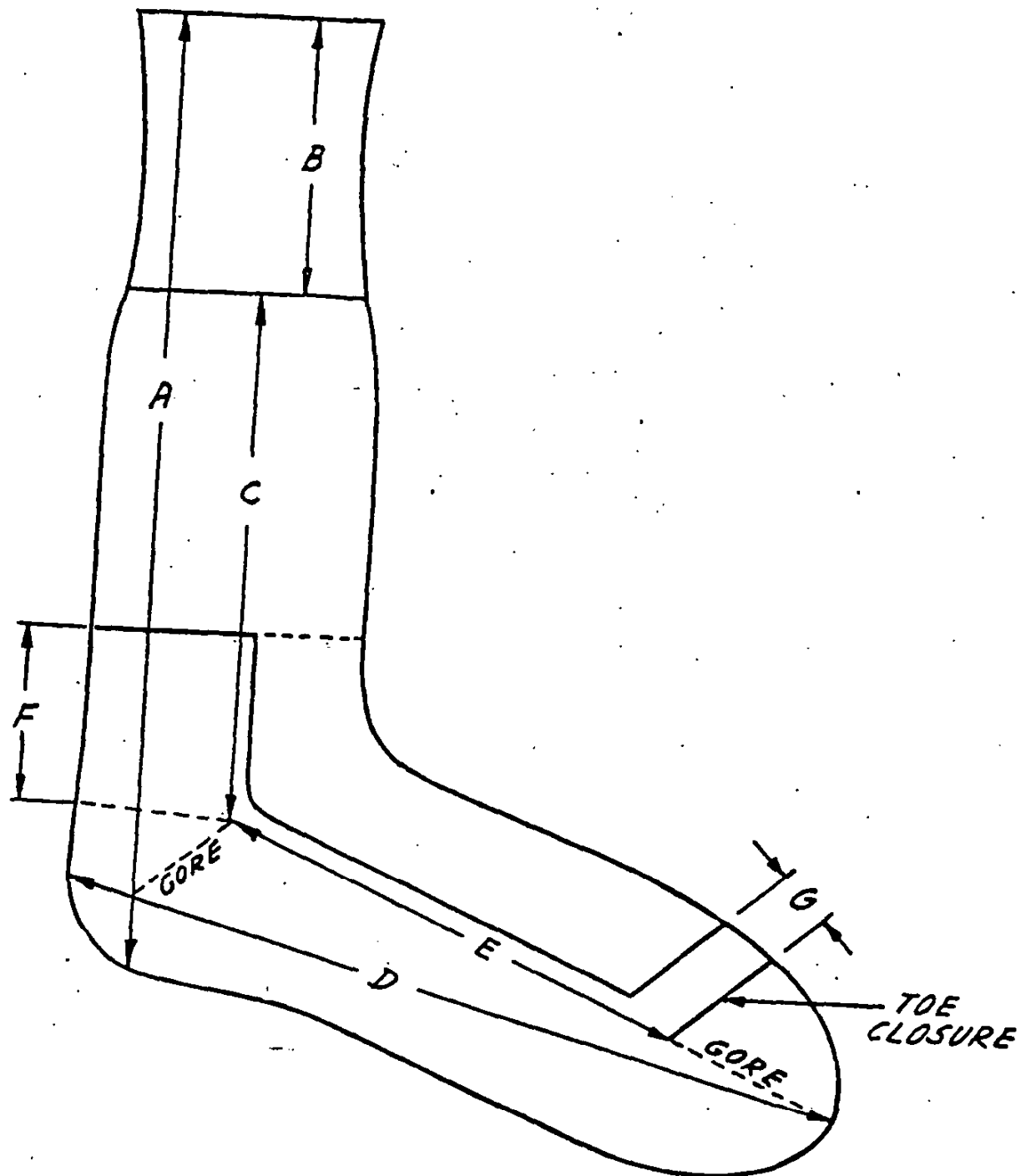


FIG. 1-SOCKS, MEN'S, CUSHION SOLE,  
STRETCH TYPE

# 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.

<b>1. RECOMMEND A CHANGE:</b>		<b>1. DOCUMENT NUMBER</b> A-A-55079	<b>2. DOCUMENT DATE (YYMMDD)</b> 1 OCTOBER 1992
<b>3. DOCUMENT TITLE</b> SOCKS: MEN'S, CUSHION SOLE, STRETCH TYPE			
<b>4. NATURE OF CHANGE</b> (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)			
<b>5. REASON FOR RECOMMENDATION</b>			
<b>6. SUBMITTER</b>			
<b>a. NAME (Last, First, Middle Initial)</b>		<b>b. ORGANIZATION</b>	
<b>c. ADDRESS (Include Zip Code)</b>		<b>d. TELEPHONE (Include Area Code)</b> (1) Commercial (2) AUTOVON (If applicable)	<b>7. DATE SUBMITTED (YYMMDD)</b>
<b>8. PREPARING ACTIVITY</b>			
<b>a. NAME</b>  DLA-CT		<b>b. TELEPHONE (Include Area Code)</b> (1) Commercial (2) AUTOVON - DSN (215) 737-8105 444-8105	
<b>c. ADDRESS (Include Zip Code)</b> Defense Personnel LSupport Center 2800 S. 20th Street (DPSC-FSSD;Bldg. 12-3-D Philadelphia, PA 19101-8419		<b>IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:</b> Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	