INCH-POUND
A-A-50015D
October 24, 2019
SUPERSEDING
A-A-50015C
August 7, 1996

COMMERCIAL ITEM DESCRIPTION

SOCKS, STRETCH TYPE (DRESS OR LINER)

The General Services Administration has authorized the use of this commercial item description for all Federal agencies.

1 SCOPE.

This commercial item description covers the requirements for stretch type, ribbed knit, cotton/nylon, and polyester socks. The socks are intended for dress wear or as a liner in a sock system by personnel of the Department of Defense.

2 CLASSIFICATION.

The socks shall be provided in the following types:

Type I - Cotton/nylon (Dress)
Type II - Polyester/nylon/spandex or rubber (Liner or Dress)

3 SALIENT CHARACTERISTICS

3.1 Description.

3.1.1 Type I. The socks shall be seamless, circular 1 X 1 true rib knit, stretch type with a ribbed elastic top, fabricated on a 132-240 needle machine or an equivalent process, and suitable for dress wear.

3.1.2 Type II. The socks shall be circular knitted, with a true ribbed elastic top, a reciprocated heel and standard flat toe seam. The socks shall be knit on a 3-$^{3}/_{4}$ inch or 4 inch diameter, single or double cylinder, not less than 132 needles for appearance.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: DLA Troop Support, Clothing and Textiles Directorate, Attn: FQSE, 700 Robbins Ave, Philadelphia, PA 19111. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at https://assist.dla.mil.

AMSC N/A FSC 8440

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3.2 Material.

3.2.1 Type I. The socks shall be made of cotton yarn plied with stretch nylon yarn, or cotton yarn plated with stretch nylon yarn. The plating will result in the cotton yarn dominating the inside of the sock.

3.2.2 Type II. The socks shall be made from 18/1 cc tetra-channel polyester fiber combined with one end of 100-34 textured nylon. The cuff shall be knitted with 120-180 denier spandex or 95-100 gage rubber, double wrapped with 1/40 denier multifilament flat nylon. The total fiber percentages shall be a minimum of 78% polyester for coolness, a maximum of 2% spandex or rubber for fitness and if needed, the remaining fiber type shall be nylon.

3.3 Elastic top. The elastic top for the Type I sock shall be a true 1 X 1 ribbed knit made with an elastic yarn, or cotton yarn consisting of a spandex core with a stretch type inner and outer cover, and finished with a turn-over, non-raveling welt, and free from loose ends. The elastic top for the Type II socks is a 2 inch 1 X 1 mock or true rib knit by 3-$^{1}/_{2}$ inches wide.

3.4 Color. The color of the Type I and II socks shall be black or as specified in the contract.

3.5 Physical requirements. The socks shall meet the physical requirements when tested in accordance with Table I.

Table I Physical Requirements

Characteristics	**Requirements**	**Test Method**
DIMENSIONAL CHANGE(AFTER 3 LAUNDERING CYCLES)% MAX		
WALE DIRECTION	4.0	AATCC 135
COURSE DIRECTION	4.0	Table I,3,V,iii
PILLING, % MAX	3-0	ASTM D 3512
COLORFASTNES TO:		
LAUNDERING X 3 MIN	4.0	AATCC 61, 2A 1/
PERSPIRATION, MIN	4.0	AATCC 15 1/
CROCKING, MIN	4.0	AATCC 8 2/
MOISTURE WICKING WALES AND COURSES		
INCHES MIN.	5.0 INCHES MIN	3/

1/ AATCC gray scale for color change
2/ AATCC chromatic transference scale
3/ Moisture wicking test. see Natick.wicking test procedure, dated September 7, 1988. The last measurement shall be a minimum of 5 inches or the specimen shall be considered a failure.

3.6 Sizes and measurements. The finished socks shall conform to the sizes below as identified by National Association Of Hosiery Manufactures (NAHM).

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TYPE I	TYPE II
Small - 9-11	Extra-extra small - 5-7
Medium - 10-13	Extra small - 7-9
Large - 13-15	Small - 9-11
Extra Large -15 and over	Medium - 10-13
	Large - 13-16

3.6.1 Stretch and Weight. The finished socks shall conform to the stretch and weight requirements listed in Tables II and III. Extra-extra-small, Extra-small, Small, Medium, Large and Extra-large shall be abbreviated to XXSM, XSM, SM, MED, LG, and XLG.

TABLE II
Stretch and weight requirements (Type I)

Size	Weight/dozen Oz. (min.) 1/	Relaxed leg length inches (min.) 2/	Relaxed foot length inches (max.) 3/	Stretch foot length inches (min.) 4/
SM	10.5	10-1/2	8-1/2	12
MED	11.5	10-1/2	10-1/2	14
LG	12.5	10-1/2	12-1/2	16
XLG	13.5	10-1/2	14-1/2	18

TABLE II
Stretch and weight requirements (Type II)

Size	Weight/dozen Oz. (min.) 1/	Relaxed leg length inches (min.) 2/	Relaxed foot length inches (max.) 3/	Stretch foot length inches (min.) 4/
XXSM	14	12-1/2	6-1/2	8-1/2
XSM	15	12-1/2	6-3/4	8-3/4
SM	18	14	8	10
MED	20	14	9-1/2	11-1/2
LG	22	14	9-3/4	11-3/4

1/ Unpackaged socks only.
2/ The length is the measured distance from the bottom of the heel to the top of the sock.
3/ The measurement of the relaxed foot length shall be taken in a straight line from the tip of the toe to the back of the heel along a straight line through the tip of the toe and the bottom of the heel gore.
4/ The measurement of the stretched foot length shall be taken from the tip of the toe to the lower end of the heel gore, holding the sock firmly between the thumb and the finger at the toe tip and at the heel gore, and stretching the fabric to its limit.

3.6 Bursting strength (Type I and II). The leg material of the finished socks shall have a ball bursting strength of not less than 85 pounds when tested in accordance with ASTM D3787.

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3.7 Label/marking. Each sock shall have a size marking, fiber content and contractors name applied just below the instep and centered between the ankle and toe. The color of the marking shall be white.

3.7.1 Washing instructions. Each pair of socks shall contain the following washing instructions: Machine wash, warm water, no softener in either washer or dryer. Tumble dry warm.

3.7.2 Barcode Label/tag. All socks shall be banded in packages of three with an approved commercial band which includes the DLA Troop Support logo. Each band shall be individually bar-coded with the type VIII, class 17 label/tag of MIL-DTL-32075, except in addition to the National Stock Number (NSN) the label/tag shall also have a 12 digit Universal Product Code (UPC) element. The UPC is assigned by the Government for all NSNs and the initials "UPC" shall appear beneath the barcode. This label/tag shall be located so that both the NSN and UPC barcodes are completely visible on the item when it is folded and/or packaged as specified, and so that it causes no damage to the item.

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).

5 QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description and conforms to the producer's standards and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

5.2 Visual examination. Each sock shall be examined for the defects listed below:

Defects. Any hole, cut, or tear; any degree of degradation of the elastic top; any thin areas, mends, frayed, or raveled; color shall not have a heather effect; noticeable variation in shade between two socks of a pair; noticeable variation in size (length and width) in a pair; knit construction of sock not as specified; any spot or stain (outside); any run or drop stitches, including holes looping or seaming; any material defects, distorted parts or poor workmanship; any component part omitted; marking missing, incorrect, or illegible; measurement of item not as specified; bar code omitted or not 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; any items not packaged in accordance with the contract or purchase order.

5.3 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 order.

7 NOTES.

7.1 Source of Government documents.

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7.1 Copies of government documents are available online at https://assist.dla.mil/ or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

7.2 Source of non-Government documents ASTM Test Methods

7.1.2 Copies of documents are available online at www.astm.org or from the ASTM INTERNATIONAL, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.1.3 Copies of documents are online at www.aatcc.org or from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709-2215.

7.1.4 NAHM Sizing Standard-Manufacturing Solutions Center, Conover, NC. NAHM sock sizing boards are available from https://www/legsource.com/nahm/home.html.

7.3 Finishing (Type II). Cationic softeners and compounds containing silicon should be avoided, as they tend to affect wickability performance.

MILITARY INTERESTS:

Custodians
Army - GL
Navy - NU
Air Force - 11

Review Activities
Army - MD
Navy - MC, AS

CIVIL AGENCY COORDINATING ACTIVITY:
GSA - FSS

PREPARING ACTIVITY:
DLA - CT
Project 8440-2019-002

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