

INCH-POUND

A-A-55257

December 15, 1994

## COMMERCIAL ITEM DESCRIPTION

## CLOTH, TROPICAL, POLYESTER, SPUN AND TEXTURED

The General Services Administration has authorized the use of this commercial item description.

1. SCOPE. This commercial item description covers the requirements for a cloth, tropical, polyester, spun and textured (superseding HSC/YAGC 92-3) for use in the manufacturing of general officer coveralls for the US Air Force.

2. SALIENT CHARACTERISTICS. The cloth shall be plain weave, and shall be made of polyethylene terephthalate fiber. The warp yarns shall be spun polyester, 18 singles, and the filling yarns shall be textured polyester, 150 denier, 2-ply yarns. For weave and yarn count, one determination per sample unit shall be made and the results reported as "pass" or "fail." The width of the cloth, exclusive of selvage, shall be a minimum of 60 inches. The color of the cloth shall be Air Force Blue 1612.

The weight of the cloth shall be 5.0 to 6.0 ounces per square yard when tested according to ASTM D-3776, method C (small swatch of fabric method). The minimum yarns per inch shall be 67 warp and 47 filling when tested according to ASTM D-3775.

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-FQSD, 2800 South 20th Street, Philadelphia, PA 19145-5099.

AMSC N/A

FSC 8305

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distribution is unlimited.

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The physical and chemical values specified in the procurement document apply to the average result of the determinations made on a sample unit for test purposes as specified in the applicable test methods. The sample unit shall be 4 continuous yards full width of the finished cloth. A 1/4 yard full width of the dyed untreated cloth shall also be submitted for nonfibrous materials testing. The lot shall be unacceptable if one or more sample units fail to meet any test requirements specified. All test reports shall contain the individual values utilized in expressing the final results.

The cloth shall be scoured, heat set, brushed, singed, sheared, pressed, and decated so as to provide a finish equal to that of the standard sample. The dyed and finished cloth shall match the standard sample for shade and shall be equal to or better than the standard sample with respect to all characteristics for which the standard sample is referenced.

The dyed and finished cloth shall show fastness to laundering (after 3 cycles), light, wet-drycleaning, perspiration, and crocking equal to or better than the standard sample. As a limit of acceptability or when no standard sample is available, the finished cloth shall meet the following requirements when tested in accordance with the following test methods:

- A minimum rating of "4" ("good") fastness to light when tested according to AATCC-16, Option A.
- A minimum rating of "4" ("good") fastness to laundering (after three cycles) when tested according to AATCC-61, Test 3A.
- A minimum rating of "4" ("good") fastness to wet-drycleaning when tested according to AATCC-132.
- A minimum rating of "Grade 3" fastness to crocking when tested according to AATCC-8.

Breaking strength for the finished cloth shall be 100 pounds minimum for the warp and filling when tested according to ASTM D-5034.

Tearing strength for the finished cloth shall be 7.5 pounds minimum for the warp and 5.0 pounds minimum for the filling when tested according to ASTM D-1424.

Stretch and recovery and static extension (minimum) shall be 0.2 percent - 0.5 percent for the warp and 0.3 percent - 0.7 percent for the filling when tested according to ASTM D-3107.

Seam slippage shall be 50 minimum when tested according to ASTM D-434.

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Appearance rating after 5 launderings shall be no less than 3.5. when tested according to Test Method 5216 of FED-STD-191.

Dimensional stability for the finished cloth shall be 2.0 percent maximum in both warp and filling when tested according to AATCC-96, Option Vc.

Pilling shall have a rating of "fair" when tested according to Test Method 5320 of FED-STD-191. The finished cloth shall contain not less than 98 percent polyester based on the dry weight of the desized specimen when tested as specified in ASTM-D-629.

2.1 Matching. The dyed and finished cloth shall match the standard sample when viewed under filtered tungsten lamps that approximate artificial daylight and that have a correlated color temperature of  $7500 \pm 200$  Kelvin (K) with illumination of  $100 \pm 20$  foot candles and shall be a good match to the standard sample under incandescent lamplight at  $2800 \pm 200$  K.

2.2 Length and put-up. The cloth shall be furnished in continuous lengths, each 50 yards (minimum). Each length shall be put up on full width rolls.

2.3 Label/markings. Each roll of cloth shall be labeled or ticketed, for fiber content in accordance with the rules and regulations under the Textile Fiber Products Identification Act. The back side of the cloth shall be identified by stamping the word "BACK" on that side of the cloth at each end of the piece.

2.4 Label/tag. Each item shall be individually bar-coded with the type VIII, class 17 label/tag of DDD-L-20. This label/tag 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. 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).

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 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 practices; and is the same product offered for sale in the commercial marketplace. 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.

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4.2 Market acceptability criteria. The item offered must have been sold to the commercial market or to the Government, and the contractor shall certify and provide supporting documentation as to its serviceability and the long term (five years) availability of all necessary maintenance and logistics support parts and materials.

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

4.4 Visual examination. Each roll of cloth shall be examined for the defects listed below.

4.4.1 Defects. Any hole, cut, or tear; broken or missing yarn; smash; float, mispick, harness skip, or other misweave; hitchback, stripback; open or thin place, crack (warp or filling); knot or slub; loose, slack, or tight yarns; reed mark, abrasion mark, bruise, tender or weak spot; embedded crease or wrinkle; selvage cut, torn, folded, rolled, slack, or tight; filling bar, coarse filling, or mixed filling; spot, stain, streak, or dirty yarn; foreign matter; shade not as specified; finish not equal to or better than standard; offshade or uneven shading throughout piece; mottled, cloudy, streaky, or barre; overall uncleanness or soiled; baggy, ridgy, wavy, or unevenly woven cloth; and width not within established tolerances.

4.4.1.1 Marking defects. The following are marking defects: net length less than indicated on the ticket; fiber identification marking omitted; bar code omitted or not readable by scanner; human-readable interpretation (HRI) omitted or illegible; bar code not visible on roll; bar code causes damage to the item.

## 5. PACKAGING

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

## 6. NOTES

6.1 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

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6.1.1 Source of non-Government documents

AATCC Test Methods

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

ASTM Test Methods

(Applications for copies should be addressed to American Society For Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1187.)

Custodian:  
Air Force - 45

Civil Agency Coordinating  
Activity:  
GSA - FSS

Review Activity:  
Air Force - 99, 82, 32, SO,01

Preparing Activity:  
DLA - CT

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