

INCH-POUND

A-A-59481  
March 1, 2004

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## COMMERCIAL ITEM DESCRIPTION

SHIRT, PULLOVER, SYNTHETIC FLEECE

### 1. SCOPE

This commercial item description covers the requirements for a synthetic fleece pullover shirt that is used as an multi-purpose lightweight insulation layer for wear with the USMC camouflage utilities and the Extended Cold Weather Clothing System (ECWCS). The shirt is a modified commercial item since it requires a specific military appearance (See paragraph 3.2).

2. CLASSIFICATION. The shirt will be of one type and two classes in the following sizes as specified:

Class 1 – Coyote  
Class 2 - Camouflage Green 483

### SCHEDULE OF SIZES

X-Small    Small    Medium    Large    X-Large

Comments, suggestions, or questions on this document should be addressed to:  
Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn: DSCP-  
COCT (Bldg 6), 700 Robbins Ave., Philadelphia, PA 19111-5092 or emailed to  
leo.bailey@dla.mil. Since contact information can change, you may want to verify the  
currency of this address information using the ASSIST Online database at  
[www.dodssp.daps.mil](http://www.dodssp.daps.mil)

AMSC N/A

FSC 8415

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### 3. SALIENT CHARACTERISTICS

3.1 ***Design and construction.*** The fleece pullover shirt has long sleeves, a collar that converts to a mock turtleneck when the front opening slide fastener is completely closed. The slide fastener front opening extends from the top of the collar to the mid-chest. The slide fastener is backed with a throat protection flap at the neck and has a thong for ease of opening when wearing gloves. The base of the front opening is reinforced with a 1 x 1-1/2 inch piece of nylon webbing. A large hand warmer pocket extends from the lower chest area to the base of the pullover. To provide additional insulation and lower back protection, the back of the pullover is shaped to be longer than the front. All joining seams shall be flat locked and all hems shall be cover stitched. This design provides a garment that is light in weight, low in bulk, has environmental protection, and comfort in movement.

3.2 ***Basic material.*** The following material shall be used to provide the environmental protection, user comfort; lightweight and durability needed for wear in field, combat, and operations other than war. The basic material for the pullover shall be 100% virgin polyester, circular knit terry, double-sided, lightweight velour (fleece) non-pilling Polartec® 100 Style 7543M with moisture management properties or equal in the following colors: Coyote for the class 1 pullover and Camouflage Green, CG 483 for the class 2 pullover. This material provides the required military appearance and functionality required by the Marine Corps. The fabric shall conform to the following requirements:

TABLE I. ***Knit cloth physical requirements.***

CHARACTERISTIC	REQUIREMENT	TEST METHOD
Weight (oz. per square yard)	5.7 ± 0.5	ASTM D3776
Thickness @ 0.6psi	0.07 minimum	ASTM D1777
Colorfastness: Laundering Crocking Light Carbon Arc Xenon	3.0 – 4.0 Dry - 4.0 / Wet - 3.0 20 & 40 Hrs. – Good - 4 85 & 170 Kj. – Good - 4	AATCC 61- Option 2a, 3 cycles AATCC 8 AATCC 16 Option A or Option E
Dimensional Stability – Avg.	Wales: 4.0% max. Courses: 4.0% max.	AATCC 135 – 3 cycles, III,A

3.2.1 ***Thread.*** Thread for needle and bobbin (looper) shall be commercial 100% textured polyester thread, approximate Tex size 35, 2 or 3 ply conforming to A-A-52095, or cotton covered polyester core thread approximate Ticket No. 40, Tex size 35, 2 or 3 ply conforming to A-A-50199. All threads shall be non-staining and show good colorfastness to laundering. The thread shall match the basic material.

3.2.2 ***Labels.*** Each shirt shall have a commercial size label, an identification label, and a care label. The size and identification labels may be combined. The identification label shall contain the item description, contract number, fiber content information and the contractor's name. The

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size label color shall be white. The inscription shall have a minimum font size of 10 points. The inscription legibility, label, and label attachment shall last the expected life of the pullover. If available, a basic material supplier care label and hang tag may be used, except the information must be as cited in paragraph 3.2.2.1.

3.2.2.1 **Care label**. The care label shall include the following information:

**Warm Wash  
Tumble Dry Low  
or Line Dry  
DO NOT USE BLEACH  
DO NOT IRON**

3.2.2.2 **Size label**. The size label shall contain, as a minimum, the following information, as applicable:

<u>X-Small</u>	
Chest – Under 33 inches	
NSN: 8415-XX-XXX-XXXX	
<u>Small</u>	<u>Medium</u>
Chest – 33-37 inches	Chest – 37-41 inches
NSN: 8415-XX-XXX-XXXX	NSN: 8415-XX-XXX-XXXX
<u>Large</u>	<u>X-Large</u>
Chest – 41-45 inches	Chest – over 45 inches
NSN: 8415-XX-XXX-XXXX	NSN: 8415-XX-XXX-XXXX

3.2.2.3 **USMC Label** (Class 1 only). Each cap shall have a woven “Made Expressly for USMC” label. The USMC label shall have a black satin broadloom background with the USMC emblem woven in red, gold and gray threads in the center of the label. At the top of the label, the words “Made Expressly for” will be woven in gold. At the bottom of the label, below the emblem, the contractor’s name shall be woven in gold. The USMC label shall be cut single, fused edge with a finished size of 33 mm wide by 42 mm in height – Bell Label style # 930-084 or equal.

3.2.2.4 **Bar-code label/tag**. Each cap shall be individually bar-coded with a Type VI, Class 17, Label/Tag of MIL-DTL-32075. The Label/Tag shall be located so that it is completely visible on the item when it is folded and/or packaged as specified and shall cause no damage to the item.

3.2.2.5 **Label placement**. The labels shall be securely attached to the pullover and positioned as follows:

- (1) **Care label and identification/Size label**. At center back neck ( $\pm$  1 inch off center) and caught in collar setting seam.
- (2) **Barcode label**: Attach to the slide fastener thong opening.

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- (3) **Polartec label**: Inserted into right seam, as worn, of pocket attachment.
- (4) **USMC label**: Placed at center back neck, adjacent to the size label and caught in collar setting seam.

3.3 **Slide fastener**. The slide fastener for the front opening shall be a continuous element polyester mono-filament, Size 5-6 with a minimum crosswise breaking strength of 175 lbs., conforming to type I, Style 7 of A-A-55634 and shall match the basic material in color. The slider shall have an opening large enough to accommodate a 3/8-inch wide thong. (YKK Style # CNC-56LH 5/8" E GOV in color #567 "Black Olive" slide fastener has been found to meet the CG 483 requirements.) Slide fastener lengths for the front opening are: 14 inches for sizes X-Small, Small and Medium, and 15 inches for sizes Large and X-Large.

3.3.1 **Cord, Nylon for slide fastener thongs**. The thongs for all slide fasteners shall be a 1/8-inch diameter black non-elastic nylon cord. The finished length of the thong after knotting shall be 3 +/- 1/4 inches. If available, thongs from the basic material supplier may be used as a replacement for the cord.

3.3.2 **Webbing, nylon**. The webbing used to reinforce the end of the slide fastener shall be 1-inch wide, 4 panel, black, nylon 6 webbing conforming to Elastic Cord and Webbing Style # N1401 or equal. Webbing cut edges shall be seared.

3.4 **Patterns**. The government shall furnish a complete set of patterns or a master pattern with grade rules, to maintain uniformity and consistency in manufacturing. Standard patterns provide an allowance of 1/2-inch for setting slide fasteners and for all major joining seams. The government patterns shall be used to create the contractor's working patterns. Minor modifications are permitted to accommodate manufacturing procedures, however the design and finished measurements shall be maintained.

TABLE II. **List of pattern parts**.

Material	Nomenclature	Cut Parts
Polyester Fleece	Front	1
	Back	1
	Collar	1
	Sleeve	2
	Pocket	1
	Neck protection flap	1

3.5 **Configuration**. The following specifics are needed to provide uniform appearance; comfort and durability in use during field duties, combat, and operations other than war. The finished dimensions (See 5.5) to maintain end item configuration.

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3.6 ***Seaming***. The seams shall be consistent, exhibit a uniform appearance and conform to the ASTM D-6193 Stitch Types listed in the table below. All material edges shall not ravel. Edges may be turned-in, turned-under, or serged to prevent raveling.

TABLE III. ***Seams***.

Seaming Areas	Seam Type	Gage	Stitch Type
Overedging	EFd-1		504
Attach labels and hanger loop	EFa-1	1/8 to 1/4 inch from edge.	301
Flat lock seams	FSa-1		607
Set slide fastener and top stitch	LSbu-2 (a&b)	Top stitching gage - 1/4 inch from folded edge of slide fastener opening.	301
Attach reinforcement tape	Box X-stitch	1/16 to 3/16 inch from edge	301
Pocket opening, sleeve and bottom hem stitching	EFa-2		605

#### 4. REGULATORY REQUIREMENTS

4.1 ***Recycled, recovered, or environmentally preferable materials***. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

#### 5. PRODUCT CONFORMANCE

5.1 ***Product conformance***. The products provided shall meet the salient characteristics of this commercial item description, and shall conform to the producer's own drawings, specifications, standards and quality assurance practices. The Government reserves the right to require proof of such conformance.

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

5.3. **End item visual examination.** The pullover shall be examined for the major defects listed below.

TABLE IV. **End item examination.**

<b>Examination</b>	<b>Defect</b>
Materials	Any hole, cut, tears, run, needle chew or weakening defect in the material, any mend or patch, shade variation within a part or between parts, color not as specified.
Seams and stitching	Seam: puckered, distorted, pleated, wavy, twisted, irregular or open, loose stitch tension resulting in loose seam; seam type not as specified, raw edges. Stitches: broken or missing thread or stitch, stitch type not as specified.
Workmanship	Any component part omitted or not as specified, distorted, full, tight or twisted parts. Any defect not specified in this table which affects, form, fit or function.
Cleanness	Spot, stain, excessive thread ends not trimmed or removed, raw edges, odor.
Labels	Omitted, incorrect, illegible, not attached specified; bar codes omitted, 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 hood.
Dimensions and finished measurements	Not as specified.

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5.5 **Finished dimensions**. The pullover shall conform to the dimensions listed in inches in the table below:

TABLE V. **Finished measurements**

	<b>X-Small</b>	<b>Small</b>	<b>Medium</b>	<b>Large</b>	<b>X-Large</b>	<b>Tol.</b>
1/2 Chest Circumference <u>1/</u>	19-1/2	21-1/2	23-1/2	25-1/2	27-1/2	+/- 3/4
Center Back Length <u>2/</u>	29	29-1/2	30	30-1/2	31	+/- 3/4
Sleeve Length (Underarm) <u>3/</u>	23	23	23	23	23	+/- 1/2
Collar Height <u>4/</u>	3	3	3	3	3	+/- 1/4
Zipper Length	14	14	14	15	15	

Measurements shall be taken as follows:

1/ With the front slide fastener and the pullover laid flat and as smooth as possible, measure from folded edge to folded edge at base of armhole.

2/ Measure from collar seam along center back to bottom edge of pullover.

3/ Measure from underarm seam along sleeve seam to base of hem.

4/ Measure from top edge of collar to collar joining seam – front edges of collar shall be no more than 1/8 inch unequal in height.

## 6. PACKAGING

6.1 **Packaging, packing and marking**. Preservation, packaging and marking shall be specified in the contract or purchase order.

## 7. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory unless otherwise stated in the contract or purchase order.)

7.1 **Intended use**. The pullover is intended for wear by Marine Corps personnel as a multi-purpose lightweight insulation layer for wear with the USMC camouflage utilities and the

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Extended Cold Weather Clothing System (ECWCS) field, shipboard, combat, and operations other than war.

7.2 **Specifications, standards, and handbooks.** The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the issue of the Acquisition Streamlining and Standardization Information System (ASSIST) database and supplement thereto, cited in the solicitation.

7.3 **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

A-A-52095	-	Thread, Polyester, Textured
A-A-55634	-	Zippers, (Fasteners, Slide Interlocking)
A-A-50199	-	Thread, Polyester Core, Cotton- or Polyester-Covered
MIL-DTL-32075	-	Label: For Clothing, Equipage, and Tentage, (General Use)

7.3.1 **Non-Government publications.** The following documents form a part of this document to the extent specified herein.

#### ASTM International

ASTM D 1777	Standard Test Method for Thickness of Textile Materials
ASTM D 3776	Standard Test Method for Mass Per Unit Area (Weight) of Fabric
ASTM D 6193	Standard Test Method for Stitches and Seams

(Applications for copies should be addressed to the American Society for Testing and Materials, 100 Barr Harbor, West Conshohocken, PA 19428-2959). Website address: <http://www.astm.org>.

#### AATCC

AATCC 8	Colorfastness to Crocking: AATCC Crockmeter Method
AATCC 16	Colorfastness to Light
AATCC 135	Dimensional Changes in Automatic Home Laundering of Woven and Knit Fabrics

(Applications for copies should be addressed to the American Association of Textile Chemists and Colorists, P.O. Box 12215, Triangle Park, NC 27709-2215.) Website address: <http://www.aster.org>.



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AMERICAN NATIONAL STANDARDS INSTITUTE

ANSI/ASQCQ Z1.4- Sampling Procedures and Tables for Inspection of Attributes

(Applications for copies should be addressed to the American National Standards Institute, 25 West 43<sup>rd</sup> Street, 4<sup>th</sup> Floor, Broadway, New York, NY 10036.) Website address <http://www.ansi.org>.

7.4 ***Subject term key words listing.***

Cold weather

MILITARY INTERESTS:

Custodians  
Army-GL  
Navy-MC

CIVIL AGENCY COORDINATING  
ACTIVITY: GSA-FSS

PREPARING ACTIVITY:

DLA-CT

Project 8415-0248

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