INCH-POUND

A-A-50194B
10 December 2003

SUPERSEDING
A-A-50194A
28 April 1992

COMMERCIAL ITEM DESCRIPTION

HOOD, BALACLAVA, EXTENDED COLD WEATHER

The General Services Administration has authorized the use of this commercial item description as a replacement for MIL-H-44302 for all federal agencies.

1. SCOPE

This commercial item description covers the extended cold weather balaclava hood which provides protection for the face, neck and head in cold weather conditions.

2. CLASSIFICATION

The finished hood shall be of one type and in one size to fit all.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn: DSCP-COCT, 700 Robbins Ave Philadelphia, PA 19111-5096.

AMSC N/A FSC 8415

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

3. SALIENT CHARACTERISTICS

3.1 Design and construction. The hood shall be a pull over the head style with an adjustable face opening, allowing it to be worn up over the nose, or down under the chin (see figure 1). The hood shall have two plies of the knitted cloth with a tightly woven nylon material, the weight shall be 4 ± 1 ounces when tested is accordance with ASTM D3776, Option C. The wind barrier interlining between the plies in the face area shall extend a minimum of five (5) inches past the top center of the hood and shall be anchored to prevent shifting. The interlining shall be caught in the binding all around the opening not affecting the stretch, to allow protection against wind. The interlining shall have a cut out in the mouth area.

NOTE: The figure is furnished solely for guidance and information. The face side of lining fabric shall finish toward the wearer.

3.2 Basic materials

3.2.1 Knitted cloth. The finished cloth for the hood shall be washable wool, not lower than 64's U.S Standard, which may be blended with a maximum of 15 percent synthetic fiber, and dyed Black 470. The finished cloth shall be constructed in a 1X1 rib knit and conform to the minimum requirements listed below when tested in accordance with the cited test methods.

3.2.2 Matching. The color and appearance of the dyed and finished cloth shall match the standard sample, black 470, piece number 3512.

TABLE I. Knit cloth physical requirements

Characteristics	Requirement	Test Method
Fiber identification	3.2.1	ASTM D3887
Fiber blend	3.2.1	ASTM D3887
Knit structure	1 x 1 rib	Visual 1/
Weight, oz./sq. yd (minimum)2/	8.0	ASTM D3887
Wales and courses per inch	5 x 12	ASTM D3887
Colorfastness to: (minimum)		
Crocking, wet and dry	Grade 4 or good	AATCC 8
Perspiration 4/	Class 4 or good	AATCC 15
Laundering	Class 4 or good	AATCC 61, Test IA

1/ One sample shall be used to visually determine the requirement. The results shall be reported as pass or fail.
2/ Requirement for single ply of the base knit material
3/ The wales shall be counted on one side of the fabric only.
4/ The test for colorfastness for acid and alkaline solution shall apply.

3.2.2 Thread. The thread for seaming and edge finishing shall be Black 470, C.A. 66043, polyester or cotton-covered conforming to A-A-50199, Type I or II, ticket No.'s 40, 2 or 3 ply or 50, 2 ply.

3.2.3 Interlining. The wind barrier interlining shall be a tightly woven nylon material conforming to the requirements listed in Table II below.

TABLE II. Interlining physical requirements

Characteristics	Requirements	Test Method
Air Permeability (maximum)	15 Ft^3 /min/ft^2	ASTM D737
Colorfastness to: (minimum)		
Perspiration 1/	Class 4 or good	AATCC 15
Laundering 2/	Class 4 or good	AATCC 61, Test 1A

1/ The test for colorfasteness for acid and alkaline solution shall apply.
2/ The specimen shall be dried after each of the three laundering cycles. The soap solution shall contain 0.5 % by weight, P-D-245, detergent, laundry, and hand dishwashing (granular) Type II in water hardness not over 50 parts per million. The weight of the specimen shall be 4.0 ± 0.5 grams for yarn and fabrics and the rotating time shall be 30 minutes with ten stainless steel balls in each cylinder.

3.2.4 Seams and stitching. All seams and stitches shall be in accordance with ASTM D6193. Seam allowances shall be maintained with seams sewn so that no raw edges, runoffs, pleats, puckers or open seams occur. Thread tension shall be maintained so that no tight or loose stitching will result. Overedge stitching shall be 3/16 to 1/4 inch wide. Type 401or 504 stitching shall be used to seam the upper portion of the hood together. Both ends of the stitching produced with the 401 stitching shall have a 1/2 inch chain extending beyond each end. Type 504 or 505 stitching shall be used on face opening and bottom edges of hood.

3.3 Labels. Each hood shall have an identification and a care label attached. The labels may be combined. The labels shall be in accordance with MIL-DTL-32075, Type VI, except the font size shall be 10 points. Class 4 of the MIL-DTL-32075 shall be used for the identification label, except the size shall be omitted and class 3 shall be used for the care label. When the labels are combined the item description shall be omitted.

3.3.1 Care Label. The care label shall include the following information:

WASH BY HAND, COOL WATER
SQUEEZE, DON'T WRING
LAY FLAT, SHAPE, AIR DRY
DO NOT MACHINE WASH, DRY, OR BLEACH

3.3.2 Bar-code label/tag. Each item shall be individually bar-coded with a Type VII, 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.

3.4 Measurements. The hood shall meet the finished measurements specified under Table III. See figure 2.

TABLE III. Finished measurements

	Finished measurements	Tolerance (inches)
(A) Length	19 inches	± 1
(B) Width	8-1/4 inches	± 1/2
(C) Face opening	7-1/4 inches	± 1/4

(A) Place hood on a flat surface and align bottom edges of front and back, close top and bottom edges of the face opening. With hood in this position, measure length in a straight line from folded edge at center of crown to bottom of hood. (See figures 2)

(B) With hood positioned as indicated above, measure across the hood in a straight line from folded edge to folded edge at face opening. (See figure 2).

(C) Place hood on a flat surface and fold in half lengthwise, pull hood so the curvature along side edges of face opening is straight. Measure along the edge of face opening from fold at center front to fold at center neck. (See figure 2).

3.5 Figures. Figures are furnished for information purposes only. When inconsistencies exist between the written specification and the figures, the written specification shall control.

3.6 End item performance testing. The finished hood shall neither shrink nor elongate more than 7.0 percent maximum in either the length or width direction when test in accordance with AATCC 135, Table I, (2), (II), (D).

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.

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

5.3 End item visual and dimensional examinations. Each hood selected for examination shall be visually and dimensionally examined. Lot inspections shall be in accordance with ANSI Z1.4.

5.3.1 Defects. The hood shall be examined for the major defects listed below.

Table IV. End item examination

Examination	Defect
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.

6. PACKAGING

6.1 Packaging, packing and marking. Preservation, packing and marking shall be as specified in the contract or 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 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

MIL-DTL-32075 LABEL: FOR CLOTHING, EQUIPAGE, AND TENTAGE

A-A-50199	THREAD, POLYESTER CORE, COTTON-OR POLYESTER COVERED

7.2 Source of non-Government documents. The following documents form part of this document to the extent specified herein.

ASTM International

ASTM D737	STANDARD TEST METHOD FOR AIR PERMEABILITY OF TEXTILE FABRICS
ASTM D3887	STANDARD TEST METHOD TOLERANCES FOR KNITTED FABRICS
ASTM D6193	STANDARD PRACTICE FOR STITCHES AND SEAMS

(For all inquires please contact the American Society For Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428). Website address http://www.astm.org

AATCC

AATCC 8	COLORFASTNESS TO CROCKING
AATCC 15	COLORFASTNESS TO PERSPIRATION
AATCC 61	COLORFASTNESS TO LAUNDERING
AATCC 135	DIMENSIONAL CHANGES IN AUTOMATIC HOME LAUNDERING OF WOVEN AND KNIT FABRICS

(For all inquires please contact the American Association of Textile Chemists and Colorists (AATCC), P.O. Box 12215, Research Triangle Park, NC 27709-2215.) Website address http://www.aatcc.org

AMERICAN NATIONAL STANDARDS INSTITUTE

ANSI/ASCQ Z1.4 – SAMPLING PROCEDURES AND TABLES FOR INSPECTION OF ATTRIBUTES

(For all inquires please contact the American National Standards Institute, 25 West 43rd Street, 4th Floor, New York, NY 10036). Website address http://www.ansi.org.

7.3 Subject term key words listing

Knitted cloth
Wind barrier

MILITARY INTERESTS:

Custodians
Army - GL
Navy - NU
Air Force - 11

Review Activities
Air Force – 82

CIVIL AGENCY COORDINATING ACTIVITY: GSA - FSS

PREPARING ACTIVITY:

DLA - CT

Project 8415-0256

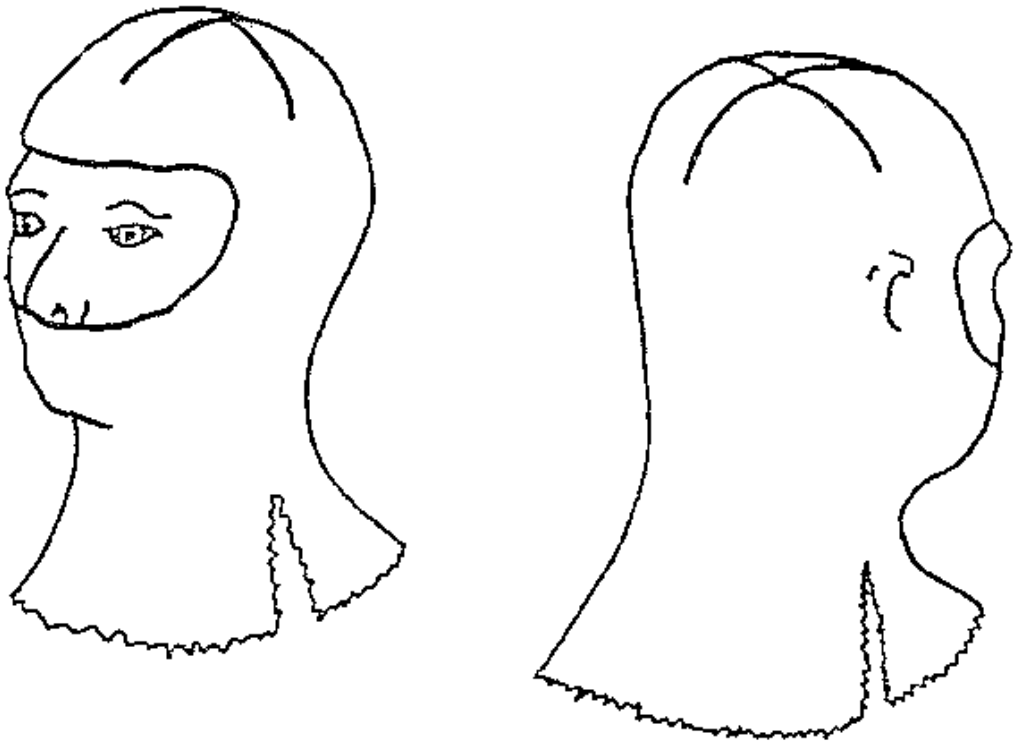

Figure 1: Hood, Balaclava, ECW

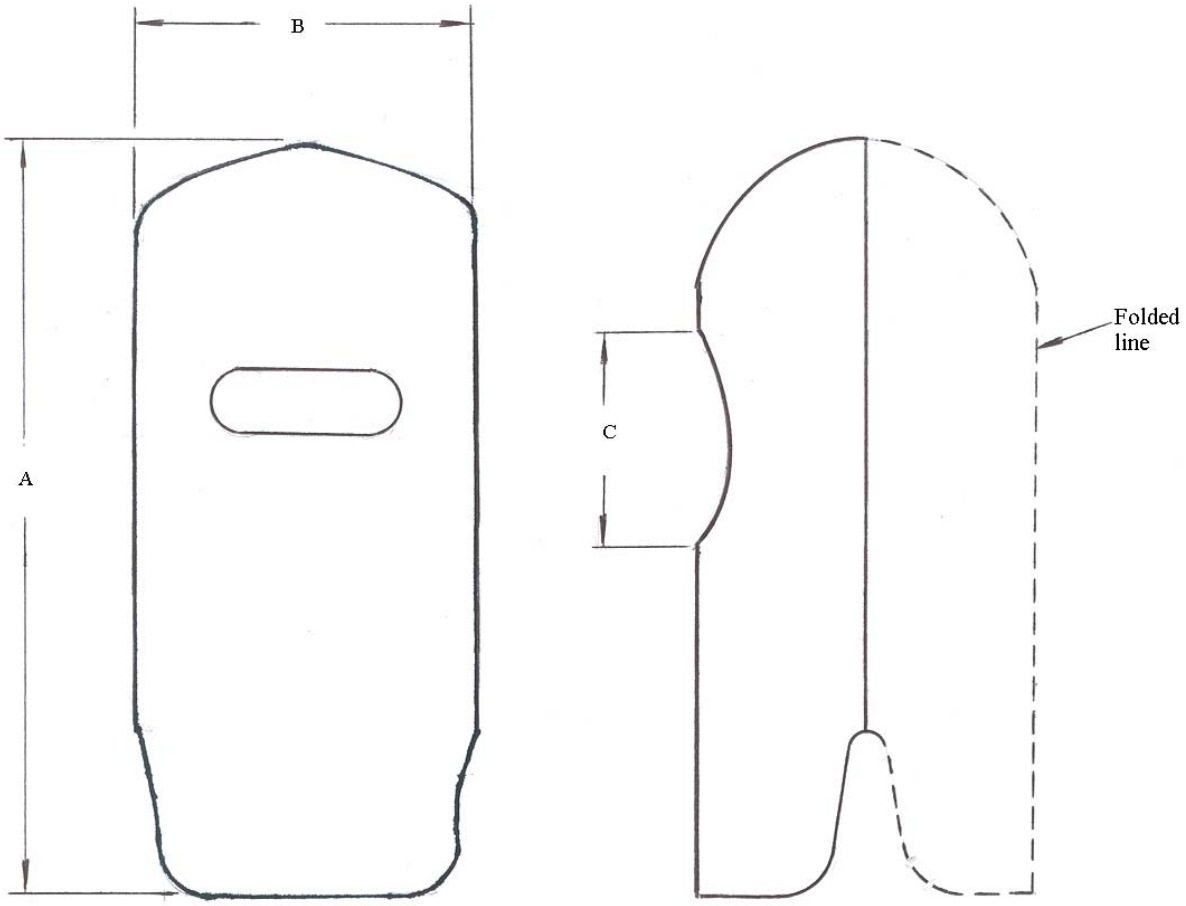

Figure 2: Measurement Guidelines