

INCH-POUND

A-A-55075

17 August 1992

## COMMERCIAL ITEM DESCRIPTION

## GLOVES: MEN'S AND WOMEN'S, ANTI-CONTACT

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-G-10902.

Abstract. This Commercial Item Description covers one type of simplex knitted cotton glove with leather reinforcement palm, fingers, and thumb. The gloves are intended for use by Defense Department personnel in cold-wet and cold-dry regions where dexterity and protection from cold metal contact are required.

Classification. The glove shall be provided in one type and three sizes.

Salient Characteristics. The matched pair of gloves shall have a knitted cotton body of a Gunn design featuring a leather reinforcement palm patch. The cotton cloth glove parts shall be assembled by inseams, including a Bolton thumb design. A reinforcement leather piece shall be superimposed over the pale side of the sewn cotton glove, covering front side of fingers, palm and thumb and stitched 1/16 to 3/32 inch from the edge of the leather patch. The cloth thumb shall be superimposed with the leather thumb patch, catching the edge of the leather into the inseam for the closing of the thumb. The remaining edge of the superimposed leather shall be stitched through at 1/16 to 3/32 inch from the leather edge, as indicated by dashed lines on Figure 1 (Front) view. The reinforced thumb shall be set into

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 8415

DISTRIBUTION STATEMENT A.

Approved for public release;  
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the glove by inseaming, as indicated by solid lines on Figure 1. The glove back wrist portion shall feature a stretch zone created by an underlying elastic webbing. The grain side of all leather components shall face the outside. The elastic webbing, 2-1/4 to 2-3/4 inches in length, shall be stretched to its full length, 3 to 3-1/2 inches, and zigzag stitched from one end to the other onto the back wrist area using 1/4 inch stitch width (Figure 1). The zigzag stitching shall contain 15 to 20 points ("V" shaped units). The tips of the four fingers and thumb on the palm side shall be shirred between the joints indicated by notches. The length of the seam edges of the finger and thumb portions, after shirring, shall approximate the length of the seam edges of the corresponding finger and thumb backs. Excepting thumb, all side seams shall be straight and parallel. Finger tip seams shall be worked to form a moccasin effect. The top of the glove shall be hemmed. All ends of stitching not caught in other seams or covered by other rows of stitching shall be backstitched 1/2 inch. A permanent identification/size label shall be affixed to the inside, palm side of wrist. The finished, matched pair shall be joined together by means of cord thread enabling the pulling apart of the pair, without tearing the gloves.

#### Material.

**Leather:** The leather shall be full grain, soft, flexible deerskin conforming to type VI of KK-L-2004 except that colorfastness to dry crocking shall be not lower numerically than Munsell value 6.0, and the thickness shall not be less than 1 1/2 ounces, nor more than 2 ounces. The skins shall be split, buffed, shaved, or skived to produce the required thickness with a smooth, clean surface on the flesh side. The color of the leather shall be seal brown closely approximating the color of the cloth.

**Cloth:** The cloth shall be a cotton simplex knitted fabric in Seal Brown, shade No. 105. The cloth shall show good colorfastness to laundering, perspiration and crocking. The finished cloth shall conform to the following requirements.

#### Physical Requirements

Characteristic	Requirement	Test Method
Weight	9.5	ASTM D 3776-85
Wales, per inch (min.)	60	ASTM D 3887-80
Courses, per inch (min.)	42	ASTM D 3887-80
Bursting Strength		
lbs. (min.)	130	ASTM D 3787-89
Stretch, percent		
Wales (length) (max.)	15	see Stretch test
Courses (width)		
(min.)	40	"
(max.)	60	"

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Physical Requirements (Con't)

Characteristic	Requirement	Test Method
Colorfastness		
Laundering	good	AATCC 61-1986
Perspiration	good	AATCC 15-1985
Croaking	good	AATCC 8-1985
Dimensional stability	2% in either direction	AATCC 150-1987

Stretch test. (Cloth Only)

Preparation of specimens. One specimen each from the length (wales) and width (courses) direction shall be tested from each sample unit. Each specimen shall be rectangular 4 inches by not less than 5 inches. The long dimension should be parallel to the length (wales) of the cloth for length tests and parallel to the width (course) for width tests. The test specimens shall be taken no nearer to the selvage than 1/10 the width of the cloth. Two parallel lines 3 inches apart shall be drawn at right angles to the long dimension of the specimen. In addition, a line shall be drawn parallel to the long dimension of the specimen and 1 inch in from either edge for properly aligning the specimen in the jaws of the testing apparatus.

Test apparatus. The test device (see Figure 2) shall be an apparatus wherein the specimen is held between the clamps. The design of the upper clamp shall be such that one gripping surface of the jaw shall be an integral part of the rigid frame or clamp. The face of the moveable jaw shall measure 1 inch by 1 1/2 inch or more inches with the long dimension perpendicular to the direction of the application of the load. The lower clamp shall have similar jaws and, when weight is attached, shall weigh a total of 6 pounds. The jaws shall have smooth gripping surfaces, sufficiently flat and parallel to prevent slipping of the specimen during the test.

Procedure. The specimen shall be placed symmetrically in the clamps of the apparatus with the long dimension parallel and the short dimension at right angles to the direction of the application of the load. Using the specified guidelines, the specimen shall be aligned with one outside edge of the front jaws of each clamp. The proper weight shall be added to insure a total of 6 pounds (including the weight of the lower jaws). The load shall be applied for 15 seconds and the distance between jaws measured by a pair of dividers or other suitable instrument.

The elongation at the required load shall be expressed as the percent increase in the length of specimen between the jaws. The percent stretch shall be calculated as follows:

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Percent = 
$$\frac{\text{Stretch dimension} - \text{Original 3 inch dimension} \times 100}{\text{Original dimension (3 inches)}}$$
  
Stretch

Report. The results obtained shall be reported separately to the nearest 1.0 percent.

Seaming and Stitching:

General purpose nylon thread, Seal Brown AM C.A. 66054, twisted, multiple cord; soft or bonded finish; or monocord, bonded finish, 3 ply, 6.0 t.p.i., nominal Tex no. (g/km) 68. The thread shall show fastness to laundering and light equal to or better than the standard sample. When no standard sample is available, the dyed thread shall show good fastness to laundering and light.

Shirring:

Nylon thread, as per above, or as an alternate, Cotton machine thread, dyed Seal Brown AM C.A. 66054, conforming to type I, ticket No. 30, 3 ply of A-A-52094. The thread shall show fastness to laundering and light equal to or better than the standard sample. When no standard sample is available, the dyed thread shall show "good" fastness to laundering and light.

Webbing: The unbleached elastic webbing with a 50% stretch shall be 3/8 inch wide, .035-.05 inch thick, and the weight shall be 20 ounces per linear yard, (min).

Label.

Identification and size label.

Each glove shall be marked with a combination identification and size label containing: item description, contract number, national stock number, and contractor's name. The color of the marking medium shall be white. The label shall be made by either marking, heat transfer (decalcomania), direct printing, stamping or stenciling. The label printing medium shall consist of suitable nontoxic dye(s) or pigment (s). The print shall be well defined, clearly legible and shall not show off-setting, smearing, bleeding, or discoloration. The label shall withstand fastness to laundering as stated therein.

Combined wearing/laundrying instruction label.

A printed slip of thin paper containing the following wearing/laundrying instructions shall be inserted in one of the gloves:

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GLOVES, MEN'S AND WOMEN'S, ANTICONTACT  
WEARING INSTRUCTIONS

NEVER HANDLE COLD METAL WITH BARE HANDS-AVOID METAL  
BURNS

USE THESE GLOVES TO AVOID TOUCHING COLD OBJECTS WHEN  
DELICATE ADJUSTMENTS ARE REQUIRED. DO NOT USE FOR  
ROUGH WORK.

LAUNDERING INSTRUCTIONS

TO MAXIMIZE WEAR-LIFE - AVOID UNNECESSARY LAUNDERING  
HANDWASH SEPARATELY (COLOR MAY BLEED) IN WARM WATER  
USING MILD SOAP. RINSE THOROUGHLY, GENTLY RING OUT,  
SPREAD TO ORIGINAL SHAPE, PLACE FACE DOWN ON PAPER  
TOWELS, AND AIR DRY ONLY

DO NOT USE DETERGENT/CLEANING FLUIDS/SHOE CREAMS  
BLEACH/SADDLE SOAP

Patterns. The government shall furnish a single size pattern. The contractor is responsible for grading patterns for additional sizes. The pattern generally provides for a seam allowance of 1/16 inch for joining seams. Commercial patterns may be used in lieu of the government furnished pattern, provided they conform to the cited design and finished measurements.

Cutting Requirements. All knitted parts shall be cut from one piece of fabric with the length direction (hem to fingertip direction) of the part running the wale direction. All leathers shall be dampened and stretched out in the length direction (butt to head direction of the hide). Each glove leather component shall be cut with the length direction, hem to fingertip, in the length direction, (butt to head direction) of the leather.

Sizes and Measurements. The finished glove, after laying-off, shall conform to the measurements below:

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Table I

Size	A - Overall length inches	B - Minimum width inches
Small	10 $\pm 1/4$	4
Medium	10 1/4 $\pm 1/4$	4 1/4
Large	10 1/2 $\pm 1/4$	4 1/2

NOTE: Refer to Figure 1 for location of A and B measurements.

Workmanship. After completion, the finished gloves shall be thoroughly cleaned, and all loose thread, lint, and foreign matter removed. The items shall be uniform in quality and shall be free from irregularities or defects which adversely affect appearance, reliability or durability. Finger seam allowances shall not exceed 1/32 inch in width. Gloves shall be dampened or humidified and then laid off on laying-off boards heated to not less than 125° F. The seam on the finger tips shall be worked to the back of the boards to form the moccasin effect and the glove shall be pulled down so that the side seams of fingers shall be straight and parallel to the side seam in the glove.

Product Demonstration Model. When required, offerers shall submit samples 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. Offerers are advised that the Product Demonstration Model does not relieve the successful offerer of his responsibility to perform in accordance with the Commercial Item Description specified above.

#### Quality Assurance

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description. The producer's option to use his own drawings, specifications, standards and quality assurance practices is predicated on full compliance with the salient characteristics. In the event of conflict between producer's technical data package and government requirements, the latter shall always take precedence. 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.

Examination. Lots of gloves shall be inspected in accordance with "Sampling Procedures and Tables for Inspection by Attributes", ANSI/ASQC Z1.4, published by the American Society for Quality Control.

Visual Examination. The inspection level for visual examination shall be II and the AQL 10 for total (major and minor combined). The sample unit is one glove and the selection shall be made in pairs. For the pairing examination, the pair shall be examined together and each defect for pairing shall be scored as a single defect.

Dimensional Examination. The finished gloves 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 glove; 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 inspection level shall be S-2 and AQL shall be 2.5.

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

Defects. The gloves shall be examined for the following defects:

Assembly: any hole, cut, tear, color not uniform or as specified; shaded parts; any spot or stain (outside); dimensions not as specified; malformation, or detail, affecting comfort of wearer resulting from careless sewing; any component not as specified; any open seam; glove not neatly laid off or exhibiting moccasin effect; gloves not properly mated; i.e. two right hands paired twisted fingers; grain side of leather facing the inside.

Leather: hard, board, flunky, spongy, or containing loose flesh in excess of 1 sq. inch; cuts, brands, or other blemishes; fat wrinkles seriously affecting serviceability; leather component not cut in corresponding direction of leather; finish applied to wrong side.

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Cloth: any run, dropped stitch, abrasion, mark club knot, twisted/tight yarn; not sueded on both sides; cloth not cut in wale direction.

Label: missing, incorrect, illegible, incomplete, not secured as specified.

Instruction/Laundrying Label: missing, illegible, or incomplete.

Seams and Stitching: loose, excessively tight(cutting leather), or otherwise poorly executed, exposed stitch locks, failure to backstretch, failure to crowd zigzag stitch, gloves improperly mated; not tacked together as specified; thread ends not removed.

Packaging, Packing, Marking, and Palletization.

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) and a total quantity of 180 pair of gloves packaged as specified above and a total quantity of 180 pairs of gloves.

Unitized loads, placing boxes on pallets, 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.

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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Sources of Nongovernment Documents.

ANSI/ASQC Z1.4 - Sampling Procedures and Tables For Inspection  
By Attributes

(Applications for copies should be addressed to American  
National Standards Institute, 1430 Broadway, New York, NY 10018-  
3308.)

ASTM-D 3951 - Standard Practice for Commercial Packaging

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

TECHNICAL MANUAL OF THE AMERICAN ASSOCIATION OF TEXTILE  
CHEMISTS AND COLORISTS

(Applications for copies should be addressed to the AATCC  
National Headquarters, P.O. Box 12215, Research Triangle Park, NC  
27709-2215.)

Possible Sources of Supply.

The following company has previously provided the cotton simplex  
cloth:

SSM Industries  
P.O. Box 602  
Spring City, Tennessee 373810  
Tele: (615) 365-4048

This source is provided solely as a convenience to end item  
producers. Preference for this producer is neither intended, nor  
implied. This information does not mitigate the technical  
requirements pertaining to simplex cloth, cited elsewhere in this  
Commercial Item Description, in any way.

Custodians:  
Army - GL  
Navy - NU

Civil Agency Coordinating  
Activity:  
GSA - FSS

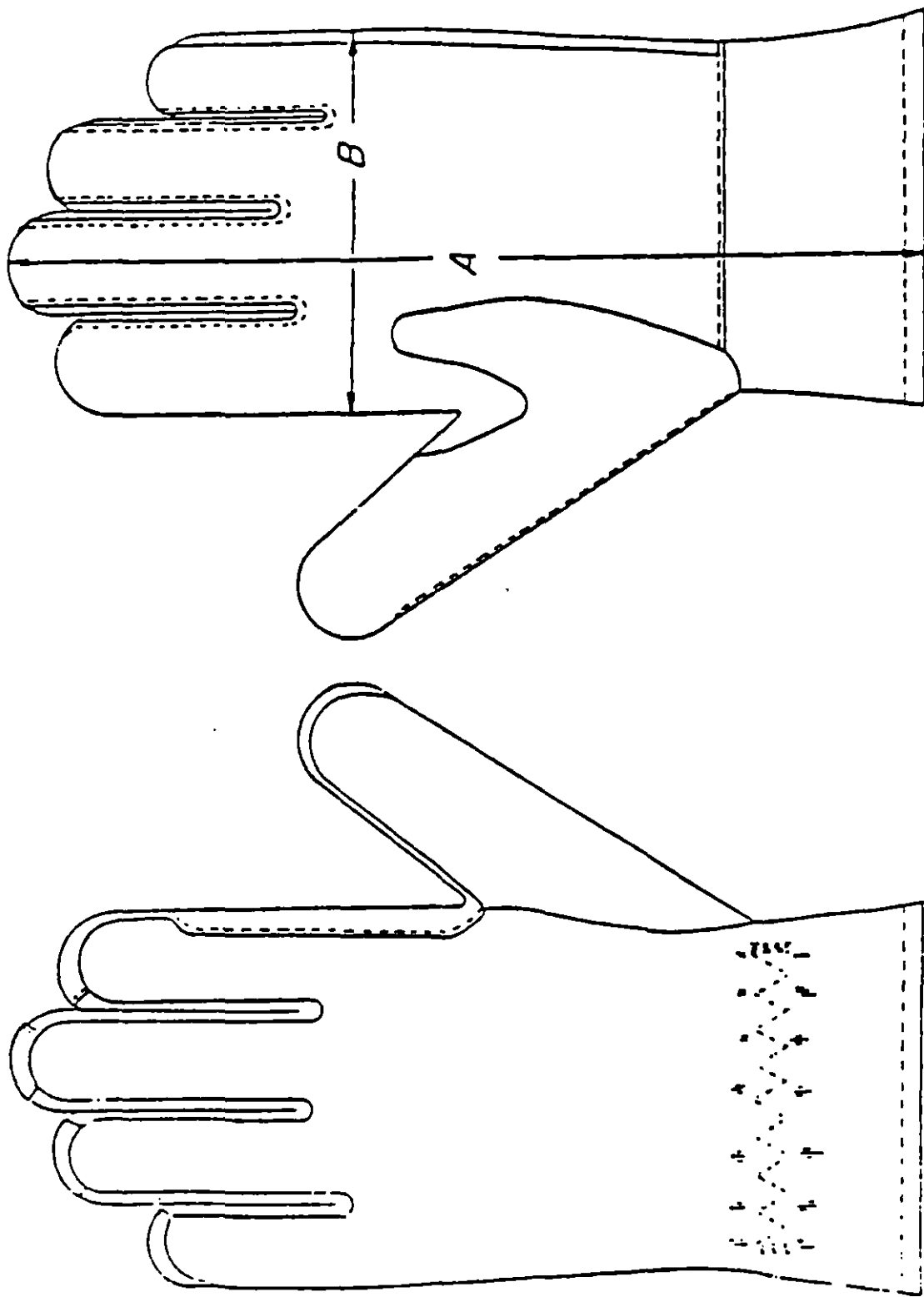
Preparing Activity:  
DLA - CT

Review Activity:  
Army - MD

Project No.8415-0881

User Activities:  
Coast Guard - CG  
Navy - MC

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FRONT (LEATHER)

BACK

FIGURE 1.-- GLOVES, MENS' AND WOMENS', ANTI-CONTACT  
2-1-211A

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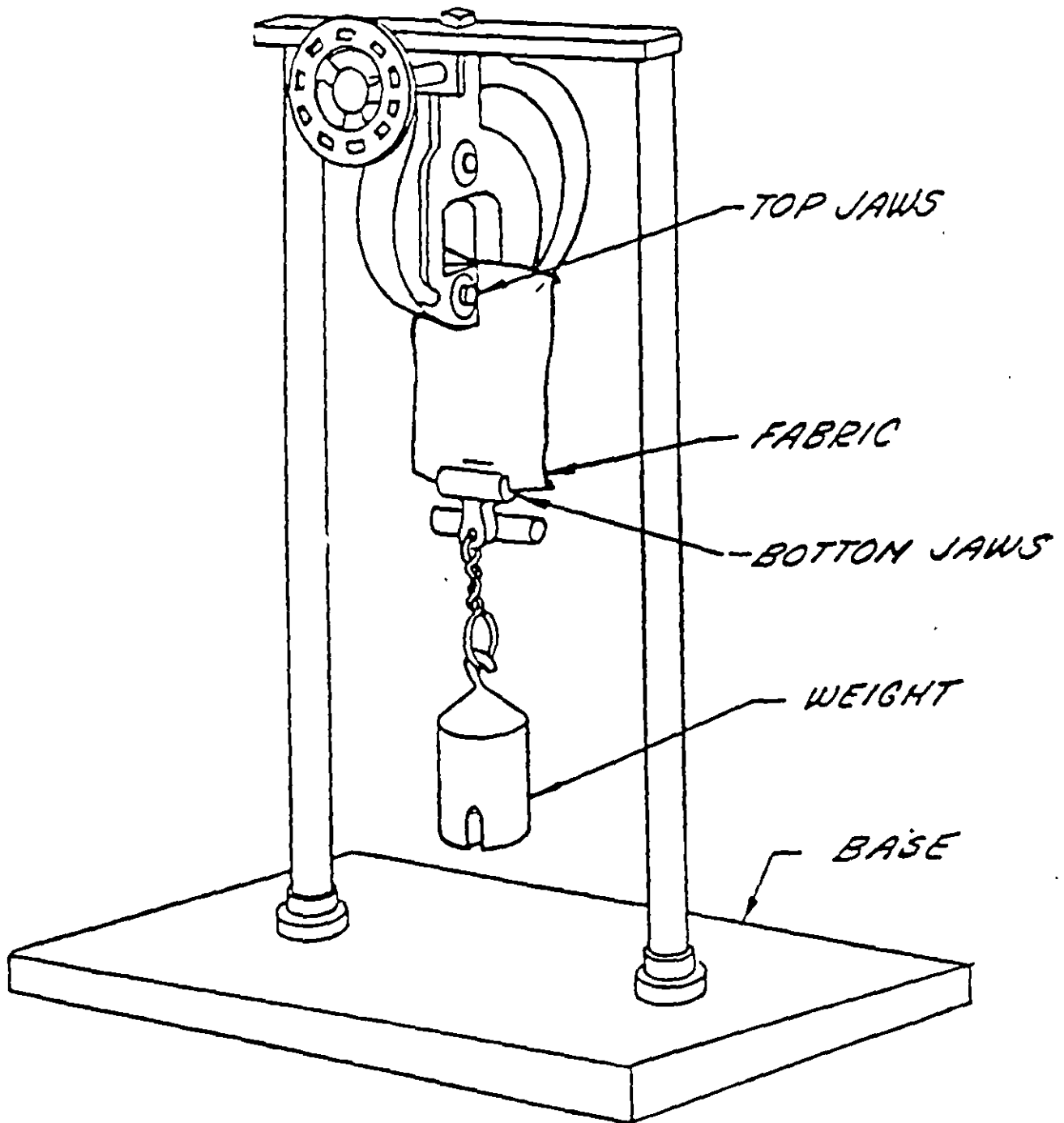


FIGURE 2. Fabric Stretch Apparatus

## 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.

I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER  
A-A-550752. DOCUMENT DATE (YYMMDD)  
92-08-17

3. DOCUMENT TITLE

GLOVES: Men's and Women's, Anti-Contact

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

E. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

g. TELEPHONE (Include Area Code)

7. DATE SUBMITTED  
(YYMMDD)

(1) Commercial

(2) AUTOVON  
(if applicable)

B. PREPARING ACTIVITY

a. NAME

DLA-CT

g. TELEPHONE (Include Area Code)

(1) Commercial

(215)737-8105

(2) AUTOVON

444-8105

c. ADDRESS (Include Zip Code)

2800 South 20th Street  
Philadelphia, PA 19101-8419IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:  
Defense Quality and Standardization Office  
5023 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466  
Telephone (703)756-2340 AUTOVON 265-2340