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INCH-POUND  
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A-A-55178

09 March 1993

## COMMERCIAL ITEM DESCRIPTION

COVERALLS, MEN'S, COTTON, SATEEN

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-C-2202.

Abstract This commercial item description covers a cotton sateen coverall which is intended to be worn by the Department of Defense personnel and is designed to be worn over conventional clothing.

Salient Characteristics. The coverall shall be shirt style collar, and one piece with a hook and loop fastener type front fly closure, hangerloop and knitted wristlets and cuffs. The cuffs shall be aramid natural shade or white. The coverall shall be pocketless. (see figure 1). The minimum unfinished length of the wrist cuff shall be 8 3/4 inches and the minimum unfinished length of the ankle cuff shall be 11 inches.

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 8405

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

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Material. It is encouraged that recycled material be used when practical as long as it meets the requirements of this document. The basic material of the coverall shall be a cotton sateen, bleached white conforming to the following requirements:

#### Basic Material Component Testing

characteristic	Requirements	Test Method
Weight per sq.yd in ounces 9.0 (Max.)		ASTM D 3776, Option C
Yarns per inch		ASTM D 3775
Warp	85	
Filling	48	
Breaking strength in pounds (min.)		ASTM D 5034
Warp	100	
Filling	90	
Dimensional stability	0.2 percent (Max.)	FED-STD 191- 5550 GSA
pH.	5.0 (Min) to 8.5 (Max)	ASTM D 2165

Cuffs, Wrist and ankle of the coverall. The cuffs shall be constructed seamless in one size on a circular knitting machine using a 1 x 1 rib stitch with one end of the elastic yarn laid in every sixth course in the rib knit area. The ends of the cuffs shall be tapered with a tuck or expanding stitch, with one end of the elastic yarn laid in every third course.

#### Cuff Material Component Testing

Characteristic	Min.	Test Method
Wales per inch	15	ASTM D 3887
courses per inch	22	ASTM D 3887
weight per doz. pairs, ounces	15.0	ASTM D 3887

Thread, polyester, cotton-covered. The thread for seaming and stitching shall be a polyester core, cotton-covered thread ticket

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number 30 or 50, 3 ply suitable for intended purposes. As an alternative, a 30 or 50 thread count may be type 251 set number 30 or 50 3 ply may be used for stitching and seaming. The color of the thread shall be approximate the color of the basic material of the coverall.

Fastener Tape. The Fastener Tape for the coverall shall have a 8.0 mil hook (330 denier). The hook and loop portions of the tape shall be 1 inch wide. The color shall approximate the shade of the basic material, white. The ground ends per tape (including selvages) shall be 174 (min., when tested. The tapes shall be constructed in accordance with the following:

Construction requirements for hook tapes (minimum) Test Method

Hooks per liner inch of tape	- 191	Visual
Picks per liner inch of tape	- 51	Visual
Ground ends per tape (including selvages)	- 174	Visual
Hook ends per tape	- 30	Visual

Construction requirements for loop tapes (minimum)

Picks per inch	- 51
Ground ends per tape (including selvages)	- 149
Loop pile ends per tape	- 28

Physical Requirements Of The Hook And Loop Tapes

			Test Methods
			FED-STD
Shear Strength	Hook	Loop	5610 & 5100
Weight (Min) oz/sq	5.9	7.4	ASTM D 3776 Option C
Breaking Strength (Min.)	125	95	ASTM D 5034

In addition, the hook and loop tapes shall have a minimum shear strength of 150 lbs and the Non - Melting/ Aramid yarns shall have a carbonizing temperature of not less than 675 ° F (357 ° C).

sizes The coveralls shall be provided in the following sizes:

Sizes - XX-Small XX-Small X-Small, Small,  
Medium, Large, X-large XX-Large

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NOTE: XXX-Small, XX-small, X-Small, Small, Medium, Large, X-Large, and XX-Large may be abbreviated as XXXSM, XXSM, XSM, SM, MED, LG, XLG, and XXLG.

#### Label/markings.

A commercial type label is acceptable, provided that an information label containing the contractor's name, contact number, size and National Stock Number (NSN), is included on the commercial label. The commercial label shall include fiber and laundering information.

To attach the label. Center combination identification/size/instruction label on the inside of the back with the top of the label parallel to and 1/4 to 1/2 inch below top raw edge of back. Stitch all four sides of label, 1/8 inch from the edge.

#### Sizes and measurements (inches)

size	Chest 1/	Sleeve length 2/	Leg inseam 3/
XXX-Small	16	18 1/4	24 1/4
XX- Small	18	18 3/4	25
X Small	20	19 1/4	25 3/4
Small	22	19 3/4	26 1/2
Medium	24	20 1/4	27 1/4
Large	26	20 3/4	28 1/2
X-Large	28	21 1/2	30
XX -Large	30	22	30
Tolerance:	+ 1 -	+ 1/2 -	+ 1/2 -

NOTE: The above measurements shall be taken with coveralls fastened and laid out smooth and flat.

- 1/ Chest - Measurements taken across front at base of arm holes from folded edge to folded edge.
- 2/ Sleeve Length- Measurement taken from base of armholes along inseam to seamline at top of knitted cuff.
- 3/ Leg inseam Measurement taken from crotch seam along inseam to seamline at top of knitted cuff

Workmanship. After completion, the finished, coveralls shall be thoroughly cleaned, and all loose thread, lint, and foreign matter removed.

Product Demonstration Model When required, offerors shall submit samples of their intended product on The Product

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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 and all other requirements of this description and that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices. 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. Reliance on contractor QA systems shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract.

Examination. Lots of Coveralls 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 level II and the AQL shall be 4.3. The sample unit is one coverall.

Dimensional Examination. The finished Coverall 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 coverall; the inspection level shall be S-2 and the AQL shall be 4.3.

Packaging Examination. The fully packaged shipping containers shall be examined in accordance with defects listed below. The lot size shall be expressed in units of shipping containers. The sample unit shall be one shipping container fully packaged. The inspection level shall be S-2 and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5.

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## EXAMINE

## DEFECT

## Marking

(exterior and interior)

Omitted: incorrect; illegible; of improper size, location, or method of application

## Materials

Any component missing, damaged, or not as specified

## Workmanship

Inadequate application of components, such as: incomplete closure of container flaps, loose strapping, improper taping, or inadequate stapling

## Content

Number of items per container is more or less than required

NSN shown on one or more items not as specified on shipping container

## Palletization

length, width, or height exceeds specified maximum requirements

pallet type not as specified

load not bonded as specified

Defects. The coveralls shall be examined for the following defects: any hole, cut, tear, color not as specified; any spot or stain or woven in waste (outside); thread ends not removed; label missing, incorrect, or illegible; measurement of item not as specified; open seam

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 Eighteen (18) coveralls packaged as specified as above.

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.

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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 shall be 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

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.)

Custodian:

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Civil Agency Coordinating  
Activity:  
GSA FSS

Review Activity:

Navy-MC

Preparing Activity:  
DLA - CT

Project No.8405-0196

## 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-55178

2. DOCUMENT DATE (YYMMDD)

93-03-04

## 3. DOCUMENT TITLE

Coveralls, Men's, Cotton, Sateen

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

## 5. REASON FOR RECOMMENDATION

## 6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)

(1) Commercial

(2) AUTOVON  
(If applicable)7. DATE SUBMITTED  
(YYMMDD)

## 8. PREPARING ACTIVITY

a. NAME

b. TELEPHONE (Include Area Code)

(1) Commercial

(2) AUTOVON

c. ADDRESS (Include Zip Code)

IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT  
 Defense Quality and Standardization Office  
 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3456  
 Telephone: (703) 256-2340 AUTOVON 289-2340