

INCH-POUND

A-A-55103

8 December 1992

COMMERCIAL ITEM DESCRIPTION

OVERSHOES, RADIOACTIVE CONTAMINANTS, PROTECTIVE

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-O-82246.

Abstract. This document covers low unsupported molded overshoes of one type and in the designs specified herein. The overshoes are intended for protection of personnel in the presence of low level radioactive contaminants.

Salient Characteristics. The overshoes shall be constructed as an unlined unit on the contractor's mold to provide proper fit for the related sizes and shapes of men's work shoes. The overshoes may be of a "storm" or "sandal" design as shown in Figure 1. They shall consist of an upper, sole, and heel. The tread pattern shall be a continuous grid type and shall not be subject to loss of pieces in wear. The tread shall provide good traction. Figure 1 is furnished for information purposes only. To the extent of any inconsistencies between the written description and the figure, the description shall control.

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 8430

DISTRIBUTION STATEMENT A.

Approved for public release;
distribution is unlimited.

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The overshoe shall be cured and treated to eliminate tackiness and have a smooth finish. All mold flashings shall be trimmed and all inside corners rounded and made smooth. The yellow rubber compound for the patched area shall be molded simultaneously with the overshoe.

Materials.

Rubber compound. The compound shall be made from virgin natural rubber, synthetic rubber or a combination of both. The compound shall meet the physical properties when tested as specified in Testing of rubber compound, Table II-Tests.

Color. The color of the rubber compound forming the vamp, sole, instep, and heel shall be black. There shall be two yellow identification patch areas on each overshoe, one in the toe area covering 2 to 5 square inches and the other on rear quarter covering 15 to 20 square inches (see Figure 1). The yellow shall approximate Shade 13655 of FED-STD-595.

Thickness. The thickness of the sole and heel excluding tread shall be a minimum of 0.100 inch. The thickness of the sole and heel including tread shall be a minimum of 0.135 inch. The minimum thickness of the upper shall be 0.030 inch except the reinforced portions shall be a minimum of 0.0375 inch.

Sizes. The overshoes shall be in the following sizes to accommodate the related size of shoe.

<u>Size</u>	<u>Related shoe size</u>
Small	6 to 7-1/2
Medium	8 to 9
Large	9-1/2 to 11
Extra Large	11-1/2 to 13

NOTE: Sizes. Small, Medium, Large, Extra-Large may be abbreviated as SM, MED, LG, XLG.

Marking. The size and contractor's name shall be molded on the outsole in the shank area with characters not less than 1/4 inch high. "Left" and "right" designation may be applied.

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Workmanship. After completion, the finished overshoes shall conform to the quality established by this description. Occurrence of defects shall not exceed the applicable acceptable quality levels.

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 and all other requirements listed in this document 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.

Testing of rubber compounds. Unless otherwise specified, the tests shown in Table II shall be conducted in accordance with FED-STD-601. The physical values specified in Section 3 shall be applicable to the lot average. A lot shall consist of the amount of rubber compounded in a day. The sample unit for testing shall be a representative composite taken from a lot. Two specimens 6 by 6 inches shall be prepared from the composite for each of the prescribed tests. The specimens for the abrasion index and hardness tests shall be 0.250 inch thick and 0.075 inch thick for the other tests. The lot shall be unacceptable if two units fail any of prescribed tests.

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Table II - Tests

Characteristic	Reference	
	Requirement	Test method
Tensile stress: <u>1/</u>		
200 percent	200 psi (minimum)	4131
400 percent	650 psi (minimum)	4131
600 percent	1500 psi (minimum)	4131
Tensile strength:		
Initial	2000 psi (minimum)	4111
After aging	30 percent (maximum)	4111, 7221
Elongation:		
Initial	700 percent (minimum)	4121
After aging	30 percent (maximum)	4121, 7221
Hardness	50 (± 5)	3021
Abrasive index:		
Initial	35 (minimum)	ASTM Method D-1630
After aging	35 (minimum)	ASTM Method D-1630 7221

1/ The modulus curve shall be carried to the break point.

Examination. Overshoe lots 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 shall be 2.5 for major and total of 6.5 major and minor combined expressed in terms of defects per hundred units. The sample unit shall be one overshoe and the selection shall be by pairs. For pairing examination, the pair shall be examined together.

Defects The overshoes shall be examined for the following defects: Not mated; not a right and left of an identical size; design and construction not as specified; identification color patch missing; finish not smooth or poor or uneven molding; not of uniform color; tread pattern not continuous grid type; incomplete trimming of flashing; marking missing; incorrect, illegible, or not located as specified; or any evidence of insecure bonding.

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Thickness Examination. The finished overshoes shall conform to the measurements specified herein. The sample unit shall be S-3 and the AQL shall be 1.5 expressed in terms of defects per hundred units.

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 1.5 expressed in terms of defects per hundred units.

<u>Examination</u>	<u>Defect</u>
Marking (exterior)	Omitted, incorrect, illegible, of improper size, location, sequence or method of application.
Materials	Any component missing or not as specified. Any component damaged.
Workmanship	Inadequate application of components, such as: Incomplete closure of container flaps, loose strapping, Bulging or distortion of containers.
Content	Number of items per container is more or less than specified.

Packaging.

Packaging. Each pair of mated overshoes of one size and design only, shall be placed heel to toe with the uppers facing each other. Each pair of overshoes shall be bound with an elastic band, or cotton tape or twine.

Packaging. Sixty pairs of overshoes shall be placed into a fiberboard box conforming to RSC-L, grade 275 of PPP-B-636. The box shall be closed in accordance with the appendix of PPP-636.

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Palletization. Boxes shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147. Each load shall be bonded with primary and secondary straps in accordance with bonding means C and D or film bonding means F or G. Pallet pattern shall be in accordance with the appendix of MIL-STD-147.

Marking.

Marking shall be in accordance with MIL-STD-129.

Regulatory Requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

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.)

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

Custodians:

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Air Force -11

Civil Agency Coordinating
Activity:
GSA - FSS

Review Activities:

Navy - SH
Air Force -99

Preparing Activity:
DLA - CT

User Activities:

Navy - AS, OS

Project No.8430-0412

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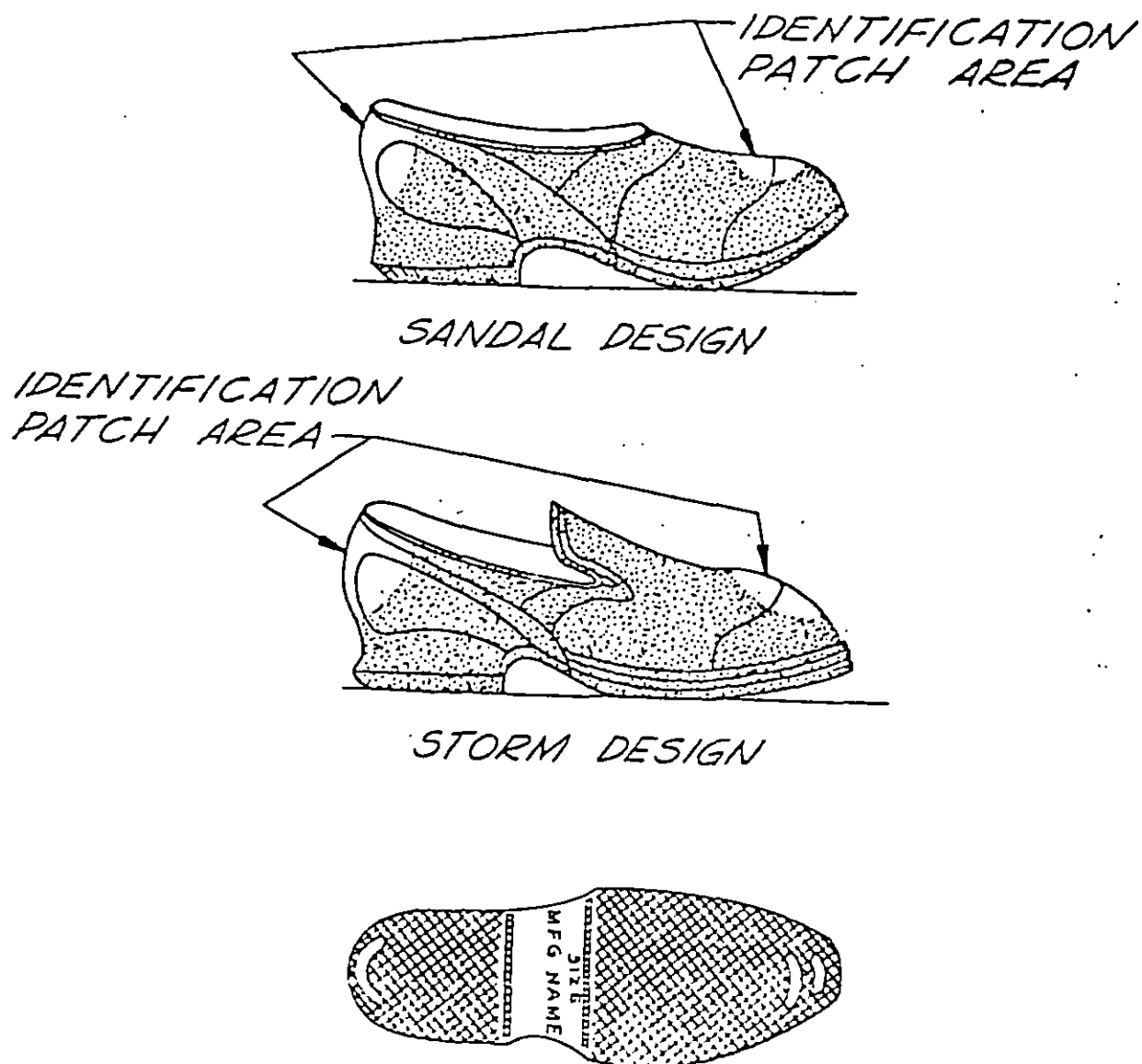


FIG. 1, OVERSHOES, RADIOACTIVE
CONTAMINANTS, PROTECTIVE

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-55103	2. DOCUMENT DATE (YYMMDD) 92-12-08
3. DOCUMENT TITLE OVERSHOES, RADIOACTIVE CONTAMINANTS, PROTECTIVE			
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 Defense Personnel Support Center ATTN: DPSC-FSSD (12-3-D)		b. TELEPHONE (Include Area Code) (1) Commercial 215-737-8105	(2) AUTOVON 444-8105
c. ADDRESS (Include Zip Code) 2800 South 20th Street P. O. Box 8419 Philadelphia, Pennsylvania 19101-8419		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	