

INCH-POUND

A-A-55188A  
March 15, 1995

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SUPERSEDING  
A-A-55188  
March 17, 1993

### COMMERCIAL ITEM DESCRIPTION

#### BLANKETS, BED, WOOL, SHRINK RESISTANT AND MOTHPROOFED

The General Services Administration has authorized the use of this commercial item description as a replacement for MIL-B-844 for all Federal agencies.

#### 1. SCOPE

1.1 This commercial item description covers wool blankets.

#### 2. CLASSIFICATION

2.1 Wool blankets shall be of the following types, grades, sizes, and colors, as specified:

Type I - Twill weave  
Grade A - 100 percent new wool  
Size 3 - 66 by 90 inches  
Color - Olive Green 118

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Personnel Support Center, Product Services and Marketing IPU, Clothing and Textiles Directorate, ATTN: DPSC-FQSC, 2800 South 20th Street, Philadelphia, PA 19145-5099.

AMSC N/A

FSC 7210

DISTRIBUTION STATEMENT A:

*Approved for public release;  
distribution is unlimited.*

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## Type I - Twill weave

Grade B - New wool and reprocessed wool blend  
(not more than 35 percent reprocessed wool)

Size 1 - 60 by 84 inches

Color - Cadet Grey 3119

Size 2 - 66 by 64 inches

Color - Olive Green 118 or

Cadet Grey 3119 (new wool only)

Size 3 - 66 by 90 inches

Color - Olive Green 118

## Type II - Double woven

Grade A - 100 percent new wool

Size 3 - 66 by 90 inches

Color - White with stripes of Maroon 165

## Type III - Plain weave

Grade B - New wool and reprocessed wool blend

Size 1 - 45 by 55 inches

Color - Royal Blue 1594

## 3. SALIENT CHARACTERISTICS

3.1 General description. The blankets shall be made of wool in the specified grade and shall be one piece of cloth and shall meet the requirements for width and length as specified by each type and size. The blankets shall have its edges overedge stitched on all four edges, shall be fulled and napped, mothproofed, have a shrink resistant treatment, have a label, and have a marking.

3.2 Material

3.2.1 Wool-Grade A. The stock used for the warp and filling yarns shall be of fleece or pulled sheep's wool or both, and of the required grade. Nails, card fly, card stripping, reused wool, reprocessed wool, fiber obtained from garnetted sweater clips and hard ends, or similar waste shall not be acceptable. The wool grade shall be as follows:

Not less than 50 percent

Not finer than 60's

Not lower than 56's

Not more than 50 percent

Not finer than 60's

Not lower than 44's

50 percent  
not lower  
than 50's

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3.2.2 Wool-Grade B. The stock for the warp and filling yarns shall be composed of the U.S. Standards grades of wool as follows:

Not less than 65 percent (fleece or pulled wool or both)	Not finer than 60's Not lower than 54's
Not more than 35 percent (reprocessed wool)	Not finer than 60's Not lower than 48's

3.3 Basic material. The blankets shall be woven from wool yarn which has been carded and spun on the woollen system for both the warp and filling. The wool content should be as follows: Grade A minimum 95 percent and Grade B minimum 94 percent when tested according to TM 2101 FED-STD-191. The cloth for the blankets shall conform to the physical requirements outlined in Table I. The cloth for Type I blankets shall be a 2/2 straight or broken twill (running two to the right and two to the left) construction; and shall have a fabric thickness of 0.130 inches at 0.1 pounds per square inch and 0.085 inches at 1.1 pounds per square inch when tested in accordance with ASTM-D-1777-64 (1/). The cloth for Type II blankets shall be a double weave with a twill face of 1/2 and a twill back of 2/1 using two sets of filling yarns and one set of warp yarns as follows:

BACK	X		X	X		X
FACE			X			X
BACK		X	X		X	X
FACE		X			X	
BACK	X	X		X	X	
FACE	X			X		

The cloth for Type III blankets shall be a plain weave construction.

The blankets shall be overedged on all cut or leno selvage edges with a  $1/4 \pm 1/16$  inch wide stitching. The selvages shall be trimmed off either before or during the overedge stitching operation.

The color Cadet Gray TS, C.A. 66082 for Type I, Grade B, Size 1; and the color Olive Green 118 for Type I, Grade B, Size 2, and Type I, Grades A and B, Size 3 shall be obtained by blending dyed wool with white wool. The color Maroon 165 for Type II shall be obtained by dyeing wool to match shade. In accordance with AATCC Chromatic Transference Scale, a minimum crock rating of 3.5 is necessary. The blankets shall have a minimum rating of 4 for colorfastness to light when tested in accordance with AATCC-16-1990, for colorfastness to laundering when tested in accordance with AATCC-61-Test 3A-1989, for colorfastness to crocking when tested in accordance with AATCC-8-1989 (2/).

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The blankets shall be given a shrink control treatment for resistance to felting shrinkage by an oxidation, oxidation/resin, resin or reactive treatment. The relaxation shrinkage of the treated blanket shall not exceed 6.0 percent when tested in accordance with method 5558 of FED-STD-191. The felting shrinkage of the treated blanket shall not exceed 4.0 percent when tested in accordance with method 5554 of FED-STD-191. The felting shrinkage test and relaxation shrinkage should be determined on the same specimen.

When oxidation or oxidation/resin method is used, the alkali solubility of the treated blankets shall not be increased more than 6.0 percent over the untreated blankets when tested in accordance with method 2800 of FED-STD-191. (And two oxidation shrink resistant treated and two untreated specimens shall be tested per sample unit.)

When a resin or reactive treatment is used for producing shrink resistance the stiffness of the treated blanket shall not be greater than 0.011 load pound when tested in accordance with method 5202 of FED-STD-191. (Five specimens in the warp direction shall be tested.)

When a resin treatment is used the minimum weight of the untreated blanket calculated to a 56 inch width shall be not less than 21.5 ounces per linear yard for Type I blankets, not less than 23.0 ounces per linear yard for Type II blankets, and not less than 11.25 ounces per linear yard for Type III blankets when tested in accordance with ASTM-D 3776-85 Option C. Treated blankets should have a maximum weight increase of 20 percent over the untreated blankets.

TABLE I. Physical requirements of finished blankets

TYPE	GRADE	SIZE	WEIGHT	YARNS/INCHES		BREAKING STRENGTH	
			lbs-oz	ends	picks	warp pounds	filling pounds
I	A	3	3-12	28	30	50	50
I	B	1	3-6	28	30	45	45
I	B	2	3-6	28	30	45	45
I	B	3	3-6	28	30	45	45
II	A	3	4-4	37	39	45	45
III	B	1	1-3	22	24	28	26
TEST METHODS			ASTM-D 3776-85 Option C	ASTM-D 3775-85 (3/)		ASTM-D 5034-90	

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The blankets shall have a PH value of no less than 4.0 nor greater than 8.0 for the water extract of the finished blankets in all types when tested in accordance with method 2811 of FED-STD-191.

NOTE: The sample unit for end item testing shall be: one quarter yard width of blanket cloth finished to the stage prior to shrink resistant treatment shall be used for determination of fiber content and alkali solubility if treated by oxidation or for initial weight if resin treated. One finished blanket is required for all other tests.

3.4 Thread. The thread for overedging and stitching on labels shall be cotton, Ticket No. 50 (2 or 3 ply), minimum breaking strength of 1.8 pounds; conforming to Type I of A-A-52094. The thread shall be dyed to match the shade of the blankets except the thread for Type II blankets shall match the maroon stripes and for Type I, Size 2 shall match Cadet Gray (color 3119) TS, C.A. 66082 or Olive Green 118. The thread shall have a minimum rating of 4 for colorfastness to light when tested in accordance with AATCC-16-Option A-1990 (4/) and for colorfastness to laundering when tested in accordance with AATCC-61-1986 (2/).

3.5 Finishing edges. The blanket shall be overedge stitched after seaming on all four sides with stitch Type 504 or 505, stitching Type EFd-1 conforming to FED-STD-751, and with 8 to 10 stitches per inch, with Ticket No. 50, 3 ply thread.

The cut edges and the leno selvage edges of the finished blankets (when shuttleless looms are used) shall be overedge stitched 1/4 inch ( $\pm$  1/16 inch) wide, with not less than 16, nor more than 20, stitches per inch.

Overrun of overedge stitching shall be trimmed to not less than 3/4 inch and pulled back for its entire length under stitching. The selvages shall be trimmed off either before or during the overedge stitching operation.

The finished blanket shall be fulled and napped to produce a degree of finish, hand, and character of nap equal to commercial standards. The character of nap is determined by lifting the napped fibers with a needle. The napped fibers of the sample being examined should offer resistance equal to or greater than the resistance offered by the napped fibers of a blanket meeting this description and commercial standards.

3.6 Mothproofing. The compound specified below shall be applied to the wool stock, top, yarn, or cloth. When white wools and colored wools are blended, the white wool need not be mothproofed if the white wool content is less than 15 percent.

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**NOTE:** Mixing mothproofing compounds in any proportion is prohibited.

Mothproofing compounds

Mothproofing compounds	Percent by weight to be applied to wool fiber	
	Minimum	Maximum
Sodium 5-chloro-2-[4-chloro-2-[3-(3, 4 dichlorophenyl)-ureido]phenoxy] benzenesulfonate	0.65	1.45

The sample shall be dry cleaned 5 cycles according to TM 5620 of FED-STD-191. The percentage (by weight) of the mothproofing compound shall be a minimum of 0.65 and a maximum of 1.45. This shall be determined after 5 dry cleaning cycles in accordance with TM 2015 FED-STD-191. A certificate of compliance shall be submitted.

3.7 Label. Each blanket shall have a  $2 \pm 1/4$  inch by  $3 \pm 1/4$  inch label located  $2 \pm 1/2$  inches from each edge on the back righthand lower corner of the blanket, as the blanket is viewed face-up. The label shall be positioned parallel with the selvage and shall read upright from the lower left hand selvage down toward the cut edge. The label may be attached to the blanket by stitching or by a heat sealing process. Heat sealed labels shall be comparable with the stitched labels insofar as adhesion to the blanket is concerned. When the label is stitched, it shall be stitched using stitch Type 301 conforming to FED-STD-751, with not less than 10 stitches per inch. The label shall show fastness to laundering and shall conform to Type VI, Class 1 of DDD-L-20.

The label shall include the information required by the Wool Products Labeling Act of 1939. The heat sealed labels shall conform to all requirements of Type VI, Class 1 of DDD-L-20 prior to application of the heat sealing adhesive. Each blanket containing wool treated in accordance with this document shall have the following information printed or stamped in black directly on the polyethylene bag across the center of the face or a white paper label inserted within the bag stating: Mothproofed in accordance with MIL-C-43665.

**NOTE:** According to the Environmental Protection Agency, Office of Toxic Substances, Title III List of Lists (EPA 560/4-90-011, dated January 1990); this end item cannot contain any hazardous materials, including DDT (Dichlorodipenyltrichloroethane) and other toxic insecticides.

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3.8 Marking. All markings shall show good colorfastness to laundering transference when tested in accordance with AATCC 61-Test 1A-1989 (2/). All markings shall be on the face side of the finished blanket, and shall be clearly legible after laundering when tested. The letters "U.S." and the caduceus shall be as indicated below and shall be positioned as shown in Figure 1.

3.8.1 Type I, Grade A or B, Size 3 blanket. Blankets shall be marked with a Black caduceus, 6 ( $\pm 1/8$ ) inches high by 6-1/4 ( $\pm 1/8$ ) inches wide centered between Black, block letters U and S (each 2 [ $\pm 1/8$ ] inches high by 1-1/2 [ $\pm 1/8$ ] inches wide). The marking shall be stamped, printed, or applied by the heat transfer method in the center of the blanket. If stamping is used, the formula used shall include potassium permanganate and acetone.

3.8.2 Type I, Grade B, Size 1 blanket. Has no marking requirements.

3.8.3 Type I, Grade B, Size 2 blanket. Blankets shall have "U.S." in outline block letters, 4 ( $\pm 1/8$ ) inches high by 3-1/4 ( $\pm 1/8$ ) inches wide in the center of each blanket. The letters shall be stamped, printed or applied by the heat transfer method. The color shall be Black. The overall width of the lettering shall be 7-1/4 ( $\pm 1/4$ ) inches. The color of the printed or stamped letters shall penetrate the blanket, and the printing or stamping material shall not stiffen the blanket surfaces. The printing shall be distinct with the edges of all the letters sharp and clear cut. If stamping is used, the formula used shall include potassium permanganate and acetone.

3.8.4 Type II, Grade A, Size 3 blanket. Blankets shall be marked in the center with a Maroon color caduceus, 6 ( $\pm 1/8$ ) inches high by 6-1/4 ( $\pm 1/8$ ) inches wide centered between Maroon color block letters U and S (each 2 [ $\pm 1/8$ ] inches high by 1-1/2 [ $\pm 1/8$ ] inches wide). The caduceus and lettering shall be applied by the heat transfer method or may be woven into the blanket utilizing the same yarn which is used in weaving the stripes. The stripes shall be woven into the blanket 3 ( $\pm 1/4$ ) inches wide, extending parallel to the width of the blanket and 7 ( $\pm 1/2$ ) inches from each end when measured to the closest edge of the stripe.

3.8.5 Type III, Grade B, Size 1 blanket. Has no marking requirements.

**FOOTNOTES:**

1/ A thickness gauge of the deadweight type equipped with a dial graduated to read directly to 0.001 inches shall be used. The

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presser foot shall be circular, with a diameter of  $1.129 \pm 0.001$  inches and with the moving parts weighted to apply a separate total load of  $0.1 \pm 0.01$  and  $1.1 \pm 0.03$  pounds per square inch to the specimen. The anvil shall be not less than 1.129 inches in diameter. The presser foot and anvil surface shall be planned to within 0.0001 inches and shall be parallel to each other to within 0.0001 inches.

The five specimens shall be tested at both pressures (0.1, 1.1 psi) and the results averaged and reported to the nearest 0.001 inch. Failure to meet the minimum thickness under either load shall be cause for rejection.

2/ For yarn use 2 to 6 grams of the applicable material, so held together to form a unit for testing unless otherwise specified in the procurement document.

Except that the soap solution shall contain 0.5 percent 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  $4.0 \pm 0.1$  grams and the rotating time shall be 30 minutes.

3/ Samples shall be conditioned as directed in "D1776 Practice for Conditioning Textiles for Testing" prior to testing.

4/ At the end of each 20 hour exposure period, a new piece of L-4 Blue Wool shall be placed in the machine. If a standard sample has been established, the test specimens, standard, and L-4 Blue Wool shall be exposed together. The exposed L-4 Blue Wool shall be retained and evaluated in accordance with AATCC 16 Option A 1990.

When a color change equal to Step 4 on the Gray Scale is evident in either sample being evaluated or the standard sample, exposure shall be continued for an additional number of hours equal to the number of hours at which the color change was apparent. Specimens which do not show a color change until 80 AFU's shall be returned to the machine for a total exposure period not to exceed 140 hours.

3.9 Workmanship. The finished blanket shall be examined for defects that include needle chews, scorch or burn marks; the finished blanket shall be thoroughly cleaned, and all loose thread, lint, and foreign matter removed. The blanket shall be composed of more than one piece, run-off, ravelled or incomplete overedge stitching, loose tension in stitching resulting in an insecure or unsightly edge, edges not overedge stitched, not labelled according to the Wool Products Labelling Act of 1939. No defects that affect appearance or serviceability shall be permitted.



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3.10 Product demonstration model. When required, offerors shall submit samples of their intended production. The product demonstration model (PDM) will consist of units independently developed. The PDMs will be analyzed and evaluated by the Government. Evaluation criteria and basis for award are contained in the solicitation. PDMs will be retained by the government. One (1) PDM approved by DPSC under the resultant contract will serve as a manufacturing standard for the corresponding production items delivered under this contract. Offerors are advised that the product demonstration model does not relieve the successful offerer of his responsibility to perform in accordance with this commercial item description (CID).

#### 4. REGULATORY REQUIREMENTS

4.1 The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with Public Law 94-580; and in accordance with paragraph 23.403 of the Federal Acquisition Regulations (FAR).

#### 5. QUALITY ASSURANCE PROVISIONS

5.1 Certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics and requirements of this (CID) commercial item description; and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices; and is the same product offered for sale in the commercial marketplace. 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 or purchase order. Reliance on the contractor's quality assurance (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 or purchase order.

5.2 Market acceptability. The following market acceptability criteria is necessary to document the quality of the product to be provided under this commercial item description (CID).

5.2.1 The company offering the item must have been producing the blanket being tendered under the contract or purchase order or generically similar blankets for at least three (3) years.

5.2.2 The company must have produced at least 1000 generically similar or identical blankets to that being tendered.

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5.3 Warranty. The item offered shall include the standard warrant given to the commercial market beginning with the date of delivery of the individual items.

5.4 Visual examination. The blanket shall be examined for the defects listed below.

5.4.1 Defects. Each blanket shall be examined on one side only. However, the samples shall be alternated so that every other blanket is examined on the side stamped "U.S." All of the blankets shall be given a through lighting examination toward a light source for holes and thin areas. The defects found during this examination shall be counted regardless of their proximity to each other, except where two or more defects represent a single local condition of the cloth, in which case only the more serious defect shall be counted.

5.5 Dimensional examination. The finished blanket shall be examined for conformance to the dimensions specified under paragraph "Classification." Any dimension that is not within the specified tolerance of ( $\pm 1/4$ ) shall be classified as a defect.

5.6 Defects. The blankets shall be examined for the following defects in design, construction; any spot or stain, clearly visible at normal inspection distance (approximately 3 feet); any rancid or other objectionable odor, any hole, cut or tear, abrasion or th place, smash or mend, broken or missing yarns: not napped or uneven napped; edges folded, rolled or scalloped, tight or loose; any foreign matter; wrong color, off shade, (i.e., not within established tolerances); type of package other than specified, package which is cut, torn, chafed, or otherwise damaged, affecting the wool; label: missing, incorrect or illegible or insecurely attached, height or width of lettering other than specified, letters not centered vertically or horizontally; stripes not specified size; thread ends not removed or; measurement of item not as specified; physical requirements not as specified; any blanket composed of more than one piece of cloth, needle chew, scorch or burn, run-off, ravelled or incomplete overedge stitching, loose tension in stitching resulting in an insecure or unsightly edge, edges not overedge stitched, not labelled according to the Wool Products Labelling Act of 1939. The blankets shall be examined for poor workmanship, any component part omitted; bar code causes damage to the item; any items not packaged in accordance with the contract or purchase order.

5.7 Certification of compliance. When certificates of compliance are submitted, the Government reserves the right to inspect such items to determine the validity of the certification.

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## 6. PACKAGING

6.1 Preservation, 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.

TABLE II. Blanket quantities per shipping container

TYPE	GRADE	SIZE	QUANTITY (each)
I	A	3	8
I	B	1	8
I	B	2	8
I	B	3	8
II	A	3	8
III	B	1	15

6.2 Prohibited packing materials. The use of asbestos, excelsior, newspaper or shredded newspaper (all types including waxed paper, computer paper and similar hygroscopic or non-neutral material) are prohibited.

## 7. NOTES

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

7.2 Sources of non-Government documents.

ASTM Manual (applications for copies should be addressed to):

American Society For Testing and Materials  
1916 Race Street, Philadelphia, PA 19103-1187

AATCC Manual (applications for copies should be addressed to):

American Association of Textile Chemists and Colorists  
P.O. Box 12215  
Triangle Park, NC 27709-2215

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Rules and Regulations Under The Textile Fiber Products Identification Act is available from:

Federal Trade Commission  
Washington, DC 20580

MILITARY INTERESTS:

Custodians

Army - GL  
Navy - NU  
Air Force - 99

Review Activities

Army - MD  
DSC - DM  
Navy - MC, MS  
Air Force - 03, 45, 82

CIVIL AGENCY COORDINATING  
ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

DLA - CT

Project 7210-0326

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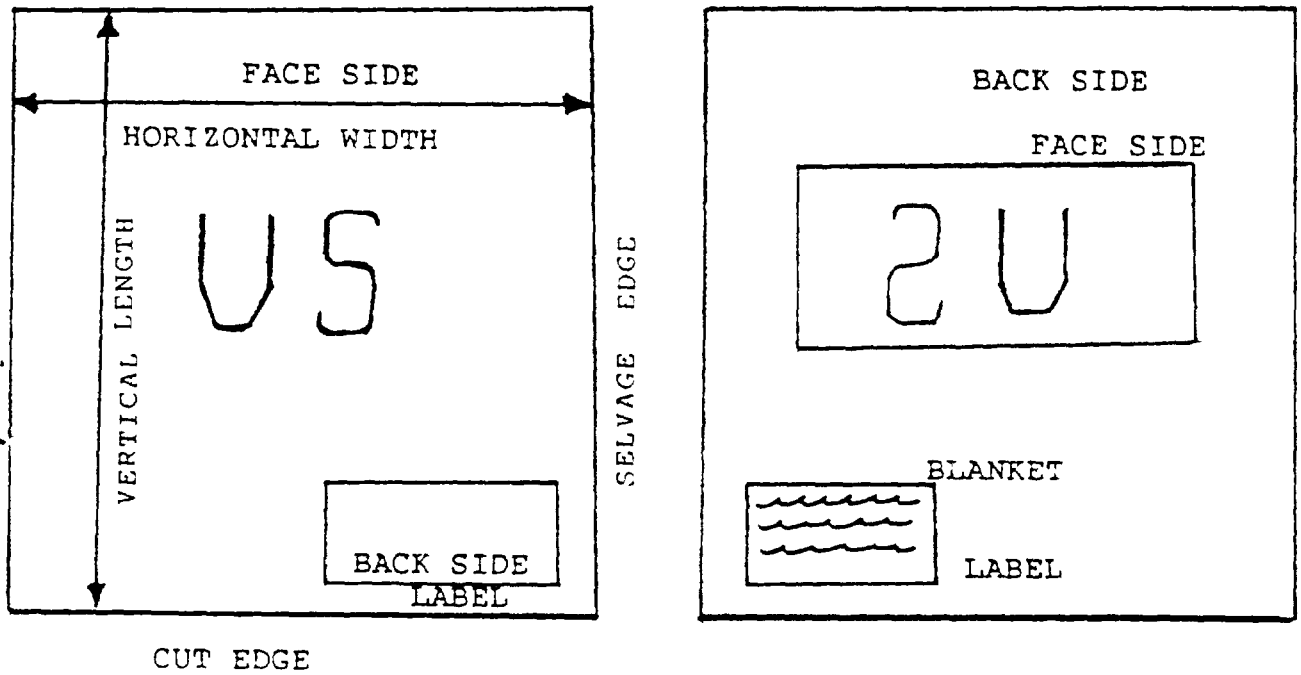


FIGURE 1  
BLANKET, BED, wool, shrink resistant and mothproofed