

MIL-D-15141B

10 NOVEMBER 1958

SUPERSEDING**MIL-D-15141A**

31 JANUARY 1953

MILITARY SPECIFICATION**DRESSING, FIRST AID AND INDIVIDUAL TROOP,
CAMOUFLAGED**

This specification has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force.

1. SCOPE

1.1 Scope. This specification covers sterile, camouflaged, battle dressings for first aid use in the field.

1.2 Classification. Dressings covered by this specification shall be of the following sizes, as specified (see 6.1):

Size 1—Large.

Size 2—Medium.

Size 3—Small.

2. APPLICABLE DOCUMENTS

2.1 The following specifications and standards, of the issue in effect on date of invitation for bids, form a part of this specification.

SPECIFICATIONS**FEDERAL**

V-T-276 — Thread, Cotton.

FF-P-416 — Pins, Safety.

CCC-G-101 — Gauze, Plain.

CCC-T-191 — Textile Test Methods.

DDD-S-751 — Stitches; Seams; and
Stitching.

JJJ-C-561 — Cotton, Sterile and
Nonsterile.

PPP-B-636 — Boxes, Fiber.

PPP-T-76 — Tape, Pressure-Sensitive Adhesive, Paper, Water Resistant.

MILITARY

MIL-B-16152 — Box, Folding (First Aid Packages).

STANDARDS**MILITARY**

MIL-STD-105 — Sampling Procedures and Tables for Inspection by Attributes.

MIL-D-15141B**MIL-STD-129 — Marking for Shipment and Storage.**

(Copies of specifications and standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publication. The following document forms a part of this specification. Unless otherwise indicated, the issue in effect on date of invitation for bids shall apply.

U. S. PHARMACOPOEIAL CONVENTION, INC.
Pharmacopeia of the United States.

(Application for copies should be addressed to the Mack Printing Company, Easton, Pa.)

3. REQUIREMENTS

3.1 Material. All requirements as given herein for materials shall pertain to the materials in the finished, delivered dressings.

3.1.1 Absorbent cotton. Absorbent cotton shall conform to grade B of Specification JJJ-C-561.

3.1.2 Nonabsorbent cotton. Nonabsorbent cotton shall be made from purified new or reworked cotton such as comber or card strips, unbleached, fine filaments, and shall contain no cotton linters or cotton which has been reworked from yarn, threads, or fabric, and shall be substantially free of lumps, oil spots, streaks of dirt, and all other foreign matter.

3.1.3 Muslin. Muslin shall be dyed to conform to the requirements for camouflaged material as hereinafter specified. The muslin on the finished dressing shall have a thread count of 64 threads per inch in the warp and 56 threads per inch in the filling, minus tolerance of 3 threads in either the warp or the filling, and no limit on overage total minus tolerance of 5 threads in the combined warp and filling. The weight of the muslin on the finished dressing shall be not less than 2.22 ounces per square yard. This mus-

lin shall have a minimum breaking strength of 36 pounds in the warp and 23 pounds in the filling. The percentage of sizing and other nonfibrous materials shall not exceed 4 percent by weight of the muslin on the finished dressing when tested as specified in 4.3.1.3.1.

Note. — It is to be noted that to obtain the weight requirement of the finished muslin, as specified above, the manufacturer will be required to start with a muslin of higher weight which after processing and dyeing will meet the requirements specified above.

3.1.4 Gauze. Gauze shall conform to Specification CCC-G-101, and shall be dyed to conform to the requirements for camouflaged material as specified herein.

3.1.5 Thread. Thread shall conform to type IA3, 3-ply, No. 60 thread of Specification V-T-276. Thread shall be of a color approximating the camouflaged material.

3.1.6 Safety pins. Safety pins shall conform to Specification FF-P-416.

3.1.7 Inner wrapper. Inner wrapper shall be kraft-colored glassine paper or parchmentized kraft paper of 40 pounds basis weight (basis 24 by 36 inches, 500 sheets).

3.2 Camouflaged material. All material required to be camouflaged shall be brown, dyed with Pontamine Brown B.T. Concentrate in the amount of 2 ounces of dye per 100 pounds of material, or by use of an acceptable equivalent which shall be approved prior to use by the procuring activity. Dye shall be nontoxic.

3.3 Stitching. Stitching shall conform to U.S. Standard type 301 or type 401 as specified in Specification DDD-S-751, and shall have 12 to 14 stitches per inch.

3.4 Fabrication.**3.4.1 Size 1 dressing.**

MIL-D-15141B

3.4.1.1 Pad. The finished pad shall consist of one layer of absorbent cotton, one layer of nonabsorbent cotton, two layers of gauze, and one layer of muslin as herein specified. The finished pad shall measure $11\frac{3}{4}$ inches square plus or minus $\frac{1}{4}$ inch, in each direction. The total cotton content (absorbent and nonabsorbent) of the finished pad, shall have an average weight of 80 grams. In no case shall the total cotton content of the finished pad weigh less than 75.0 grams. An average of 75 percent of the total cotton content shall be of the absorbent type, no pad having less than 70 percent nor more than 80 percent. The absorbent cotton layer shall comprise the front or wound surface of the finished dressing. The front surface of the cotton pad shall be covered with two thicknesses or pieces of type II gauze, each measuring 17 by 18 inches, with the free edges of the gauze carried over the edges of both layers of cotton onto the nonabsorbent cotton on the back of the pad. The back of the pad shall be covered with a piece of muslin so that it covers the entire back of the pad, including the folded-in edges of the gauze. To prevent raveling, the edges of the muslin backing shall be pinked, or folded-in $\frac{1}{4}$ inch, or a combination of pinked and folded-in edges, prior to placement on the pad. The muslin shall be placed on the back of the pad in such a manner that the warp threads of the muslin run in a direction parallel to the running length of the bandages specified below. The pad shall then be stitched entirely around; the stitching to include the muslin back, the folded-in edges of the gauze, the ends of the cotton filling of the pad, and the two thicknesses of gauze on the front or wound surface.

3.4.1.2 Bandages. There shall be four muslin bandages, $2\frac{5}{8}$ inches wide, plus or minus $\frac{1}{8}$ inch by 48 inches long, plus or minus 2 inches with pinked edges to prevent raveling. The width of the bandages as specified herein shall be the bandage width, exclusive of the pinked edges (width as measured between the innermost points (troughs) of the

pinks). These bandages shall be cut so that the running length shall be of warp threads. The bandages shall be stitched two each on two opposite sides of the covered square pad, one lengthwise edge of each bandage forming a continuation of the line of the top or bottom of the pad. The nonabsorbent cotton layer shall be toward, or in apposition with, the bandages.

3.4.1.3 Warning stamp. The following legend: "Put Other Side Next To Wound" shall be imprinted on the muslin back of the pad in bright red heavy faced type letters. The legend shall be imprinted in the approximate center of the muslin backing. The ink on the bandage shall not bleed into the pad.

3.4.1.4 Folding. The bandages shall be plaited (accordion folded) to make folds $4\frac{1}{4}$ inches, plus or minus $\frac{1}{4}$ inch long, and placed on the back of the pad. The dressing shall then be folded as shown in detail A of figure 1, across the middle with the absorbent surfaces inside and the free edges (those to which no bandages are attached) top and bottom. This fold shall result in a double pad approximately 6 by $11\frac{3}{4}$ inches. The length of this pad shall be divided into thirds, the top edge being folded down one third of its length and the bottom edge being folded up one third of its length, but in the opposite direction, to give a cross section shaped like the letter "S", or an inverted letter "S".

3.4.1.5 Safety pins. Four No. 5 (large) safety pins, in conformance with Specification FF-P-416, shall be enclosed in a small substantial paper envelope. As an alternate to use of envelope, three safety pins may be secured by the fourth pin.

3.4.2 Size 2 dressing.

3.4.2.1 Pad. The finished pad shall consist of one layer of absorbent cotton, one layer of nonabsorbent cotton, and a gauze covering as herein specified. The finished pad shall measure 8 inches long by $7\frac{1}{2}$ inches wide, plus or minus $\frac{1}{4}$ inch in each direction. The

MIL-D-15141B

total cotton content (absorbent and nonabsorbent) of the finished pad, shall have an average weight of 43 grams. In no case shall the total cotton content of the finished pad weigh less than 40.0 grams. An average of 75 percent of the total cotton content shall be of the absorbent type, no pad having less than 70 percent nor more than 80 percent. The absorbent cotton layer shall comprise the front or wound surface of the finished dressing. This pad shall be completely wrapped in type II plain gauze, in such a manner that one thickness of gauze shall cover the entire exposed surface of the absorbent cotton layer. The gauze shall have a minimum lap of $1\frac{1}{2}$ inches at the back of the pad opposite the absorbent cotton. The free edges of the gauze shall be turned back so as to overlap not less than $\frac{3}{4}$ inch on the back of the pad on each short edge.

3.4.2.2 Bandages. There shall be two muslin bandages $2\frac{1}{2}$ inches wide, plus or minus $\frac{1}{8}$ inch, by 68 inches long, plus or minus 2 inches, with pinked edges to prevent raveling. The width of the bandages as specified herein shall be the bandage width, exclusive of the pinked edges (width as measured between the innermost points (troughs) of the pinks). These bandages shall be cut so that the running length shall be of warp threads. The gauze covered pad shall be firmly stitched to the middle of the bandages, plus or minus $1\frac{1}{2}$ inches; the bandages being parallel to the long edges of the pad and placed so that the outer edges of the bandages shall be $\frac{3}{4}$ inch, plus or minus $\frac{1}{4}$ inch, from the edges of the pad. Stitching shall extend across both ends of the pad in such a manner that the stitched lines shall include the turned edges of the gauze covering and the ends of the cotton filling of the pad. The nonabsorbent cotton layer shall be toward, or in apposition with, the bandages.

3.4.2.3 Warning stamp. The following legend: "Put Other Side Next To Wound" shall be imprinted in bright red heavy faced type letters between the rows of stitching

of each bandage strip, on the reverse side of the pad. The ink on the bandage strips shall not bleed into the pad.

3.4.2.4 Folding. The bandages shall be plaited (accordion folded) to make folds approximately 2 inches long and shall be placed on the back of the pad. The dressing shall then be folded, as shown in detail A of figure 1, across the middle with the absorbent surfaces inside and the free edges (those to which no bandages are attached), top, and bottom. This fold shall result in a double pad approximately $3\frac{3}{4}$ by 8 inches. The length of this pad shall then be divided into thirds, the top edge being folded down one third of its length, and the bottom edge being folded up one third of its length, but in the opposite direction, to give a cross section shaped like the letter "S", or an inverted letter "S".

3.4.2.5 Safety pins. Four No. 2 (medium) safety pins in conformance with Specification FF-P-416, shall be enclosed in a small substantial paper envelope, capable of withstanding sterilization. As an alternate to use of envelope, three safety pins may be secured by the fourth pin.

3.4.3 Size 3 dressing.

3.4.3.1 Pad. The finished pad shall consist of one layer of absorbent cotton, one layer of nonabsorbent cotton, and a gauze covering as herein specified. The finished pad shall measure 7 inches long by 4 inches wide, plus or minus $\frac{1}{4}$ inch in each direction. The total cotton content (absorbent and nonabsorbent) of the finished pad shall have an average weight of $21\frac{1}{2}$ grams. In no case shall the total cotton content of the finished pad weigh less than 20.0 grams. An average of 75 percent of the total cotton content shall be of the absorbent type, no pad having less than 70 percent nor more than 80 percent. The absorbent cotton layer shall comprise the front or wound surface of the finished dressing. This pad shall be complete-

MIL-D-15141B

ly wrapped in type II plain gauze in such a manner that one thickness of gauze shall cover the entire exposed surface of the absorbent cotton layer. The gauze shall have a minimum lap of 1 inch at the back of the pad opposite the absorbent cotton. The free edges of the gauze shall be turned back so as to overlap not less than $\frac{3}{4}$ inch of the back of the pad on each short edge.

3.4.3.2 Bandage. Bandage shall be type I, plain gauze. The bandage shall be $3\frac{3}{4}$ inches wide, plus or minus $\frac{1}{4}$ inch, by 72 inches plus or minus 2 inches long, with pinked edges to prevent raveling. The width of the bandage as specified herein shall be the bandage width, exclusive of the pinked edges, width as measured between the innermost points (troughs) of the pinks. The bandage shall be cut so that the running length shall be of warp threads. The gauze covered pad shall be firmly stitched to the middle of this bandage, plus or minus tolerance of 1 inch. The stitching shall be across both ends of the pad in such a manner that the stitch lines shall include the turned edges of the gauze covering and the ends of the cotton filling of the pad. The nonabsorbent cotton layer of the pad shall be toward, or in apposition with the bandage. Each end of the bandage shall be split into two tails of approximately the same width to a point 6 inches, plus or minus $\frac{1}{2}$ inch, from the line of attachment to the pad, resulting in the split tails of each end of the bandage being pinked on their outer edges to prevent raveling.

3.4.3.3 Warning stamp. The following legend: "Put Other Side Next to Wound" shall be imprinted in bright red heavy faced type letters between the rows of stitching of the bandage, on the reverse side of the pad. The ink on the bandage shall not bleed into the pad.

3.4.3.4 Folding. The bandage and tails shall be plaited (accordion folded) to make folds approximately 2 inches long and shall be placed on the back of the pad. The dress-

ing shall then be folded so that in cross section it will resemble the Greek letter Sigma, as shown in detail B of figure 1. The folding shall be such that traction upon both folded tailed bandages results in a flat surface.

3.5 Compression. The folded dressings shall be compressed sufficiently to fit the appropriate size bag and outer container. The method and degree of compression shall in no way impair the usefulness of the dressing. Following compression, the wound surface of the pad shall have a soft, flexible surface.

3.6 Wrapping and sterilization.

3.6.1 Inner wrapper. The folded, compressed dressing, together with the safety pins, when specified, shall be completely wrapped (see 3.1.7) and sealed. Completed wrapped package shall be capable of withstanding sterilization and maintaining sterility until wrapped package is opened.

3.6.2 Sterilization. The finished delivered dressing shall be sterile, when tested as specified in 4.3.2. The wrapped dressing shall be sterilized by steam and thoroughly dried after sterilization. Chemical sterilization is not permissible.

3.7 Moisture content. The finished delivered dressing shall be dry to the extent that it shall show not more than a 1 percent loss in weight when tested as specified in 4.3.3.2. Dressings losing more than 1 percent in weight shall be considered as not complying with this specification.

3.8 Certificate of sterility. Unless otherwise specified, a certificate of sterility, listing all lots or control numbers, stating that sample(s) from each sterilizer charge have been tested in accordance with U.S.P. method and found to be sterile, shall be forwarded by the contractor to the procuring activity (see 6.1 and 6.3). This certificate shall

MIL-D-15141B

include specific tests performed and the test results.

3.9 Workmanship. Workmanship shall be first class throughout. First aid dressings shall be free from defects which detract from their appearance or may impair their serviceability.

4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling.

4.1.1 For visual examination. Sampling procedures for visual examination shall be conducted in accordance with the procedures set forth in Standard MIL-STD-105. Sample sizes shall be as indicated for inspection level L6 in Appendix to Standard MIL-STD-105, except that the acceptance number shall be zero (0) for all sample sizes, and a minimum of three (3) samples shall be taken.

4.1.2 For tests.

4.1.2.1 Raw materials. Sufficient samples of each lot of raw materials used in the manufacture of the dressings shall be selected to perform tests as required by the applicable specifications or by tests specified herein. Samples of the finished dyed thread, gauze, and muslin shall be selected.

4.1.2.2 End item. Sample size for each test on the dressings shall be as indicated for inspection level L3 in Appendix to Standard MIL-STD-105, except that the acceptance number shall be zero (0) for all sample sizes, and a minimum of five (5) samples shall be taken.

4.1.2.3 Sterility. Two (2) samples shall be selected for tests from the center of each sterilizer load.

4.2 Inspection.

4.2.1 Raw material. The inspector shall ascertain that prior to assembly, all raw

materials used in the manufacture of the dressings have been examined and tested in accordance with the respective specifications and with the tests specified herein.

4.2.2 Classification of defects (end item). Inspection shall be conducted in accordance with the following classification of defects:

Categories and defects*

Major AQL 1.0 percent defective

101. Absorbent cotton layer of pad not positioned as specified.
102. Proper number of layers of gauze adjoining wound surface of pad not as specified (two for size 1 and one for sizes 2 and 3).
103. For size 1, the entire back of pad not covered by muslin.
104. Stitching does not include all required components.
105. Running length of all bandages and size 1 muslin backing not warp threads.
106. Muslin components not pinked (or foiled-in where specified) to prevent raveling.
107. Free edges of gauze on backing of pad not folded in.
108. Number of bandages not as specified.
109. Bandage edges (and the tails for size 3) not pinked.
110. Bandages not placed and stitched in proper position.
111. Size 3 bandage shall be 6 inches, plus or minus $\frac{1}{2}$ inch from line of attachment to pad.
112. Size 3 bandage tails shall be approximately equal in length.
113. Bandage not proper length and width (exclusive of pinked edges).
114. Plaiting and folding not as specified.
115. Warning legend not free of bleeding into pad.
116. Warning legend not legible, or missing, or not on proper component.
117. Safety pins not proper quantity or size number.
118. Wound surface of pad not soft and flexible following compression.

MIL-D-15141B

- Major* AQL 1.0 percent defective
*Categories and defects **
119. Folded dressing not sufficiently compressed to fit appropriate container without bulging.
120. Polyethylene bag not effectively heat sealed.
- Minor* AQL 2.5 percent defective
201. Dimensions of finished pad not as specified.
202. Free edge of gauze not turned back the proper distance.
203. Stitching not entirely around the size 1 pad.
204. Stitching not 14 to 16 stitches per inch.
205. Safety pins not properly enclosed or secured.
206. Size 3 bandage tails not approximately equal in width.

* Inspection is not restricted to the classified possible defects listed above.

4.3 Tests.

4.3.1 Material.

4.3.1.1 Test for thread and gauze shall be performed on the finished dyed material. Breaking strength determination of gauze shall be in accordance with method 5100 or 5104 of Specification CCC-T-191.

4.3.1.2 *Nonabsorbent cotton.* A tuft of nonabsorbent cotton dropped on the surface of fresh water at room temperature shall remain floating for not less than 1 hour.

4.3.1.3 *Muslin.* All tests on muslin for compliance with requirements of this specification shall be as specified in Specification CCC-T-191.

4.3.1.3.1 *Sizing.* The percentage of sizing and other nonfibrous materials present in the muslin shall be determined in accordance with method 2611.1 of Specification CCC-T-191.

4.3.2 *Sterility.* Sterility shall be determined in accordance with the current edition of the Pharmacopeia of the United States for solids.

4.3.3 End item.

4.3.3.1 *Pad weight.* The weight of cotton in the finished pad shall be determined on pads which, after being removed from wrappings and unfolded, have been conditioned for at least 4 hours in a standard atmosphere of 65 percent, plus or minus 2 percent, relative humidity at 70° Fahrenheit (F.), plus or minus 2° F.

4.3.3.2 *Moisture content.* All wrappings and the safety pins (where safety pins are required) shall be removed from unbroken unit package under atmospheric conditions of 65 percent (plus or minus 2 percent) relative humidity at 70° F. (plus or minus 2° F.). The weight of the dressing shall be determined under these atmospheric conditions immediately after the wrappings and safety pins have been removed. The dressing shall remain in this atmospheric condition for at least 4 hours, the dressing weight then redetermined and the difference, if any, between the original weight and the weight after 4 hours conditioning computed.

Note. This test is not to be performed on dressings of which the wrappings have been torn, package seal broken, or wrappings damaged in any way prior to start of test.

4.4 *Supplier responsibilities for inspection.* The supplier shall perform examinations and tests set forth in this specification to substantiate conformance of supplies to specification requirements. The examinations and tests shall be at the expense of the supplier. Suppliers shall have adequate test facilities or shall arrange for test facilities acceptable to the Government to be used for executing specific prescribed tests. Records of examinations and tests performed by the supplier shall be maintained by the supplier and made available to the Government upon the Government's request, at any time, or from time to time for a period of two (2) years after the delivery of the supplies to which these records relate. The supplier shall be responsible for compliance with all

MIL-D-15141B

requirements of this specification, and all other technical requirements of the contract.

5. PREPARATION FOR DELIVERY**5.1 Packaging.**

5.1.1 *Unit of issue.* (One (1) dressing, of the stock number specified, constitutes one unit.

5.1.2 *Packaging quantities.* The number of units of issue indicated in table I shall be packaged in each unit, intermediate, and exterior container, as applicable, for the required level of protection specified in procurement document.

TABLE I. *Packaging Quantities.*

| Federal stock number | Unit package | Intermediate package | Shipping Container |
|----------------------|--------------|----------------------|--------------------|
| 6510-201-7426 | 1 | 12 | 144 |
| 6510-201-7430 | 1 | 24 | 288 |
| 6510-201-7435 | 1 | 24 | 288 |
| 6510-201-7455 | 1 | 24 | 288 |

5.1.2.1 *Packing variation permitted.* If the required number of units to be shipped is less than the number of units specified to be overpacked in an exterior container, such units shall be packed in an exterior container of suitable size and design, acceptable to a common carrier, which will insure safe delivery to destination.

5.1.3 Level A.**5.1.3.1 Unit package.**

5.1.3.1.1 *Stock numbers* 6510-201-7426, 6510-201-7430, and 6510-201-7435.

5.1.3.1.1.1 *Bag.* Each wrapped and sterilized dressing shall be packaged in a bag fabricated of polyethylene tubing having an average wall thickness of not less than 0.004 inch, with no wall thickness falling below 0.00325 inch.

5.1.3.1.1.2 *Closure and folding.* Excess air shall be expelled and closure of the bag effected by heat seal. All edges of the bag shall be neatly folded back against the sides to form a compact rectangular package of the required dimensions to fit the size unit carton as specified.

5.1.3.1.1.3 *Marking of bag.* Each bag shall be printed on one face in black ink with the following information arranged as below:

FSN.....

ITEM IDENTIFICATION.

DYED STERILIZED DRESSING.

RED COLOR INDICATES BACK OF DRESSING.

PUT OTHER SIDE NEXT TO WOUND.

NAME OF MANUFACTURER.

CONTRACT NO.

STERILITY IS NOT GUARANTEED IF INNER WRAPPER IS BROKEN.

The opposite face of each bag shall be printed in black ink with instructions for use with illustrations as shown in detail C (for dressing sizes 1 and 2) or detail D (for dressing size 3). As an alternate, the required instructions and illustrations shall be printed in black ink on the inner wrapper or on a separate label and inserted into the bag in such a manner as to be legible. All markings shall be so applied as to permit ready identification.

5.1.3.1.1.4 *Carton.* Each unit shall be further packaged in a first aid carton as specified in table II for the appropriate stock number, and constructed in accordance with Specification MIL-B-16152, carton, style 1 or 2.

5.1.3.1.1.5 *Marking of carton.* Each unit carton shall be printed in black, as follows:

Front Face: Item identification, stock

MIL-D-15141B

number designated by "FSN", unit, quantity, the legend: "DYED STERILIZED DRESSING." name of manufacturer (when the manufacturer is not the contractor, the contractor's name shall also appear), and such other information as may be required by Federal and State laws.

Back Face: Instructions for use with il-

lustrations as shown in detail C (for dressing sizes 1 and 2) or detail D (for dressing size 3).

Top Edge and Both Ends: Item identification and stock number designated by "FSN".

Bottom Edge: The words: "OPEN AT OPPOSITE EDGE".

TABLE II.

| Federal Stock No. | Dressing size | Carton size | | | Board Thickness (inch minimum) |
|-------------------|---------------|-----------------------------|------------|-------|--------------------------------|
| | | L | W (inches) | D | |
| 6510-201-7425 | 1 | 6 | 1 1/2 | 3 1/2 | 0.021 |
| 6510-201-7430 | 2 | Size 3 of Spec. MIL-B-16152 | | | — |
| 6510-201-7435 | 3 | Size 2 of Spec. MIL-B-16152 | | | — |

5.1.3.1.2 Stock No. 6510-201-7455.

5.1.3.1.2.1 *Bag.* Each wrapped and sterilized dressing shall be packaged in a bag fabricated of polyethylene tubing having an average wall thickness of not less than 0.004 inch, with no wall thickness at any point below 0.00325 inch.

5.1.3.1.2.2 *Closure and folding.* Excess air shall be expelled and closure of the bag effected by heat seal. All edges of the bag shall be neatly folded against the sides to form a compact rectangular package of the required dimensions to fit the size unit carton as specified.

5.1.3.1.2.3 *Marking of bag.* Each bag shall be printed on one face in black ink with the following information arranged as follows:

FSN 6510-201-7455.

DRESSING, FIRST AID, FIELD, INDIVIDUAL TROOP, 4 by 7 INCHES.

FIRST AID PACKET.

DYED STERILIZED DRESSING.

RED COLOR INDICATES BACK OF DRESSING.

PUT OTHER SIDE NEXT TO WOUND.

NAME OF MANUFACTURER.

CONTRACT NO.

STERILITY IS NOT GUARANTEED IF INNER WRAPPER IS BROKEN.

The opposite face of each bag shall be printed in black ink with instructions for use with illustrations as shown in detail D.

As an alternate, the required instructions and illustrations may be printed in black ink on the inner wrapper. All markings shall be applied in such manner as to be legible and to permit ready identification.

5.1.3.1.2.4 *Double slide carton.* Each unit shall be further packaged in a double slide carton as hereinafter specified.

5.1.3.1.2.4.1 *Solid kraft board.* The tubes of the double slide carton shall be fabricated of 25 point solid kraft board with an average Mullen bursting strength before waterproofing, of not less than 200 pounds. Board shall be run 1,900 finish and calendered to a smooth hard finish.

5.1.3.1.2.4.2 *Size of tubes.* The inside meas-

MIL-D-15141B

urements of the tubes shall be as follows:

Inner tube $2\frac{1}{16}$ by 1 by $3\frac{13}{16}$ inches; opening $2\frac{1}{16}$ by 1 inches.

Outer tube $3\frac{7}{8}$ by $1\frac{1}{16}$ by $2\frac{1}{8}$ inches; opening $3\frac{7}{8}$ by $1\frac{1}{16}$ inches.

Overall measurements. The outside measurements of the assembled slide carton shall be $3\frac{15}{16}$ by $1\frac{1}{8}$ by $2\frac{1}{8}$ inches.

Tolerance. A plus or minus tolerance of one-sixteenth of an inch will be permitted on the overall measurements.

Flaps. They shall be full overlap glue flaps, and secured with a waterproof adhesive. The glue flap shall not show any separation when subjected to the required submersion test.

5.1.3.1.2.4.3 *Scoring.* Scoring shall be uniform and of such depth as to prevent breaks in the fiberboard either at the time of creasing or when tubes are assembled. Tubes shall be score broken.

5.1.3.1.2.4.4 *Waterproofing.* Each inner and outer tube of the double slide carton after scoring, gluing, and printing of the outer tube, shall be waterproofed by immersion in a hot bath of resin-free cerasen wax at the required temperatures. The surfaces of the tubes after cooling shall be free from wax cake, and meet with the following requirements and tests.

5.1.3.1.2.4.4.1 *Wax absorption.* The tubes of each double slide carton after waterproofing shall show an increase in weight of not less than 25 percent by weight.

5.1.3.1.2.4.4.2 *Flexibility.* After waxing, the tubes shall be allowed to cool to room temperature and a side panel removed from the tube. Starting from one end, the panel shall be rolled one complete turn (360°) around a $\frac{3}{4}$ -inch mandrel. After bending, there shall be no evidence of breaking of the outer fibers of the board.

5.1.3.1.2.4.4.3 *Wet bursting strength.* The waxed tubes shall be immersed in distilled water at 25° to 30° C. The Mullen bursting strength shall not be less than 180 pounds, after $\frac{1}{2}$ -hour immersion and 60 pounds, after 18 hours immersion.

5.1.3.1.2.4.5 *Marking of double slide carton.* One side panel of outer tube of the double slide carton shall be printed with black ink before waxing, as follows:

FSN 6510-201-7455.

DRESSING, FIRST AID, FIELD, INDIVIDUAL TROOP, 4 BY 7 INCHES.

FIRST AID PACKET.

DYED STERILIZED DRESSING.

RED COLOR INDICATES BACK OF DRESSING.

PUT OTHER SIDE NEXT TO WOUND.

NAME OF MANUFACTURER.

CONTRACT NO.

5.1.3.2 *Intermediate package.* Intermediate package shall be a carton of appropriate size constructed in accordance with Specification PPP-B-636, class 2, compliance symbol W5c or W6c. Closure shall be effected by means of tape conforming to the requirements of Specification PPP-T-76. The tape shall be not less than 2 inches wide. Three strips shall be applied to both top and bottom so that all seams are covered their full length. Tape applied over the lengthwise seams shall extend at least 2 inches onto each of the end panels. Tape applied over the end edge seams shall extend a minimum of 2 inches along the side and top, and side and bottom panels. Tape will not be required on manufacturer's joint.

5.2 *Packing.*

5.2.1 *Level A.*

MIL-D-15141B

5.2.1.1 *Exterior container.* Exterior container shall be a box of appropriate size constructed in accordance with Specification PPP-B-636, class 2, compliance symbol V3c or V3s. Closure shall comply with paragraph 30.2.2.1 thereof, and in addition, the center seam shall be closed by means of tape, conforming to the requirements of Specification PPP-T-76. The tape shall be not less than 3 inches wide and shall extend at least 2 inches onto each of the end panels. Strapping will not be required.

5.3 Marking.

5.3.1 *Intermediate packages.* Each intermediate package shall be marked in accordance with section 5 of Standard MIL-STD-129, and shall bear the legend: "DYED STERILIZED DRESSINGS."

5.3.2 *Shipping container.* Shipping container shall be marked in accordance with Standard MIL-STD-129, and shall bear the

6510-201-7425 DRESSING, FIRST AID, FIELD, 11 $\frac{1}{4}$ inches square.

6510-201-7430 DRESSING, FIRST AID, FIELD, 7 $\frac{1}{2}$ by 8 inches.

6510-201-7435 DRESSING, FIRST AID, FIELD, 4 by 7 inches.

6510-201-7455 DRESSING, FIRST AID, FIELD, Individual Troop, 4 by 7 inches.

6.3 For Military Medical Supply Agency Procurement.

6.3.1 *Source inspection.* When inspection is made at source, certificate of sterility, required in 3.8, shall be submitted to cognizant inspector for transmittal to Head, Quality Control Division, Technical Department, Military Medical Supply Agency, 84 Sands Street, Brooklyn 1, New York.

6.3.2 *Destination inspection.* When inspection is made at destination, certificate of sterility, required in 3.8, shall be submitted by the contractor directly to Head, Quality Control Division, Technical Department, Military Medical Supply Agency, 84 Sands

Street, Brooklyn 1, New York, and a copy shall be forwarded with shipment to the consignee.

legend: "DYED STERILIZED DRESSINGS." Service color and service symbol markings are required only on direct shipments from the contractor's plant to overseas activities.

6. NOTES

6.1 *Ordering data.* Procurement documents should specify the following:

- (a) Number and date of this specification.
- (b) Size required (see 1.2).
- (c) When certificate of sterility is not required (see 3.8).
- (d) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).

6.2 This specification covers the following items appearing in the Armed Services Medical Stock List:

6.4 This specification does not include all types, classes, grades, sizes, etc., of the commodity indicated by the title of this specification, or which are commercially available, but is intended to cover the types, etc., which are normally procured to meet Military requirements.

Notice. When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Gov-

MIL-D-15141B

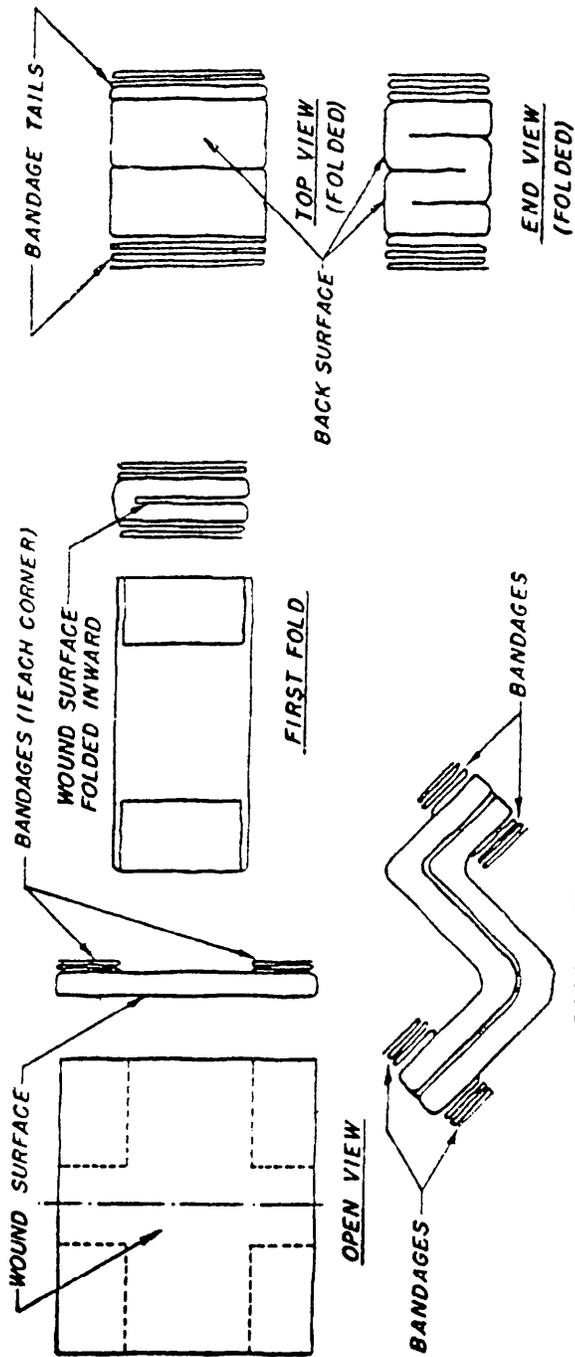
ernment may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Custodians:

Army—Army Medical Service
Navy—Bureau of Medicine and Surgery
Air Force

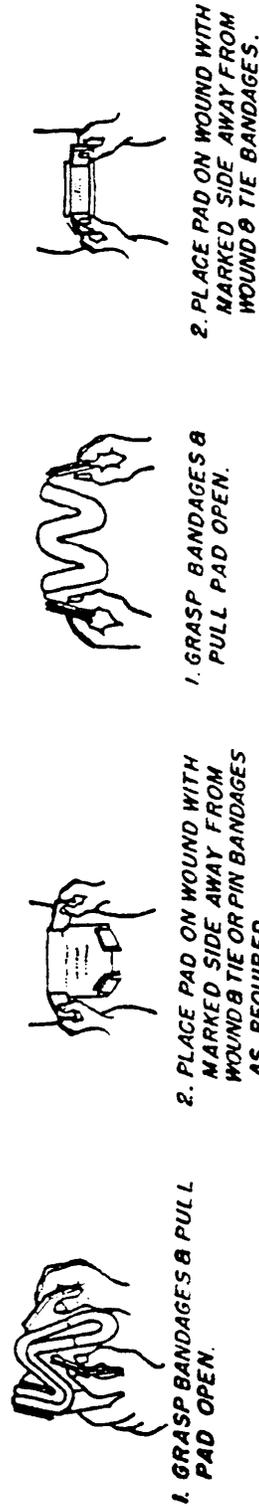
Preparing activity:

Navy—Bureau of Medicine and Surgery
(MMSA)



SIZE - 3
DETAIL B

SECOND FOLD
SIZE - 182
DETAIL A



ILLUSTRATIONS & INSTRUCTIONS FOR USE
DETAIL C

ILLUSTRATIONS & INSTRUCTIONS FOR USE
DETAIL D

FIG. 1