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# FEDERAL SPECIFICATION

# BLANKET, BED (THERMAL TYPE), COTTON

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

## 1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers requirements for a cotton, thermal type blanket.

1.2 Classification.

1.2.1 Type and grade. The blanket covered by this specification shall be of one type and grade.

## 2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Federal Specifications:

V-T-276 - Thread, Cotton.
PPP-B-636 - Boxes, Shipping, Fiberboard.

Federal Standards:

Fed. Std. No. 123 - Marking for Shipment (Civil Agencies).
Fed. Test Method Std. No. 191 - Textile Test Methods.
Fed. Std. No. 751 - Stitches, Seams, and Stitchings.

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

(Single copies of this specification and other Federal Specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, DC, Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, WA.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks, and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129 - Marking for Shipment and Storage.

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(Copies of Military Specifications and Standards required by suppliers in connectio. with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

Laws and Regulations:

16 CFR 303 - Rules and Regulations Under the Textile Fiber Products Identification Act.

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

(Copies may be obtained without charge from the Federal Trade Commission, Washington, DC 20580.)

National Motor Freight Traffic Association, Inc., Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Associations, Inc., Tariff Order Section, 1616 P Street, N.W., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

The Color Association of the United States:

Standard Color Card of America, 9th Edition

(Application for copies of this color card should be addressed to the Color Association of the United States, Inc., 200 Madison Avenue, New York, NY 10016.)

3. REQUIREMENTS

3.1 Preproduction sample. When specified (see 6.2), before production is commenced, a preproduction sample of the blanket shall be submitted to the contracting officer for approval.

3.2 Materials. Material shall be as hereinafter specified.

3.2.1 Cotton yarns. The cotton yarns shall be spun from cleaned cotton of a suitable length of staple and grade to meet the requirements of the finished blankets. Yarns shall conform to the physical requirements specified in table I when tested as specified in Table II.

3.2.2 Thread. The thread for stitching the sides and ends of the blanket shall be commercial type, ticket number 36 or 40, 3-ply cotton or comparable thread of sufficient strength to produce secure stitching.

3.3 Design and construction. The blanket shall be one piece thermal type, bleached, made from cotton yarns, with a leno weave body and plain woven borders on the sides. Each woven border shall be at least 2-3/4 inches wide. The two ends shall be finished as specified in 3.3.2. The blanket shall conform to the construction requirements specified in table I.

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TABLE I. Construction requirements

| Characteristic | Requirement |
|---|---|
| Yarn number and ply | |
| Warp | 4.5 to 5.5/2 ply |
| Filling | 4.5 to 5.5/2 ply |
| Yarns per inch in leno weave | |
| Warp | 12.50 ± 0.5 |
| Filling | 15.00 ± 1.0 |
| Yarns per inch in plain weave | |
| Warp | 22.00 ± 2.0 |
| Filling | 15.00 ± 1.0 |
| Weight of blanket, pounds | 3.0 to 4.5 |
| Breaking strength in leno and plain weave, pounds (minimum) | |
| Warp | 42 |
| Filling | 50 |
| Thickness in leno weave, inch (minimum) | 0.0625 |

3.3.1 Stripes. When specified (see 6.2), there shall be alternate pastel colored lengthwise stripes of a plain weave. The stripes shall be approximately 1-1/2 inches wide and 4-1/2 inches apart across the entire width of the blanket.

3.3.1.1 Color. The colors of the stripes shall be as follows:

Green - Cable No. 70166
Turquoise - Cable No. 70021
Yellow - Cable No. 70205
Pink - Cable No. 70097

3.3.2 Stitches, seams and stitching. The two ends of the blanket shall have a 1 ± 1/4 inch with 3/8 to 1/2 inch folded under the hem. The hem shall be stitched with a minimum of two rows of stitching and stitched with not less than 7 stitches per inch.

3.3.3 Markings. Each blanket shall have a label securely attached at one end. The label shall be commercial type and shall have the contractor's name or trademark permanently marked thereon. The marking shall be well defined, clearly legible and show good fastness to laundering when tested as specified in table II. In addition, the blanket shall be labeled, ticketed or invoiced for fiber content in accordance with the Rules and Regulations Under the Textile Fiber Products Identification Act.

3.3.4 Workmanship. The finished blanket shall be clean, free from tears, holes and any other defect which may affect appearance or serviceability. Seams and stitches shall be properly constructed to ensure security.

## 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

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4.2 Preproduction sample inspection. When a preproduction sample is required, inspection shall be made of the completed end item for conformance with all provisions of this specification.

4.3 Inspection for acceptance. Inspection shall be performed in accordance with the provisions set forth in MIL-STD-105, except where otherwise indicated.

4.3.1 Component and material inspection. In accordance with 4.1, the supplier is responsible for insuring that components and materials used are manufactured, tested and inspected in accordance with the requirements of referenced subsidiary specifications and standards to the extent specified. or, if none, in accordance with this specification.

4.3.1.1 Testing of the end item. Tests shall be performed for the characteristics specified in table II. The methods of testing shall be as specified in Federal Test Method Standard No. 191, or as otherwise indicated in the table.

TABLE II. Test Methods

| Characteristic | Requirement reference | Test Method |
|---|---|---|
| Yarns per inch | Table I | 5050 |
| Weight of blanket | Table I | 5040 |
| Breaking strength | Table I | 5100 |
| Thickness | Table I | 5030 |
| Size after laundering | Para. 3.3.3 | 5550 1/ |
| Label, fastness of marking to laundering | Para. 3.3.3 | 5610 |

1/ The washing procedure specified in test method 5550 shall be used for purpose of this test.

4.3.2 Examination of the end item. The finished blanket shall be examined for the defects listed in table III. The inspection level shall be level I and the acceptable quality levels (AQL's) shall be 2.5 major and 6.5 total defects (major and minor combined) per 100 units. The sample unit for this examination shall be one blanket. The lot size shall be the number of blankets submitted for delivery at one time.

TABLE III. Classification of defects

| Defects | Classification Major | Classification Minor |
|---|---|---|
| Cloth defects: | | |
| Hole, cut, or tear - any | X | |
| Broken or missing yarns | | X |
| Abrasions resulting in weak areas | X | |
| Spot or stain | | X |
| Thin, light or weak place which may affect serviceability | X | |
| Slack ends or picks or loose knitting causing sleaziness | | X |
| Any weakening material defect which may develop into a hole or affect serviceability | X | |

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Table III. Classification of defects (cont.)

| Defects | Classification Major | Classification Minor |
|---|---|---|
| Workmanship defects: | | |
| Unfinished - either one or both ends | X | |
| Needle chews - resulting in a weak place | X | |
| Wrong seam or stitch type | | X |
| Loose stitch tension - resulting in an insecure or unsightly end | X | |
| Markings: | | |
| Missing, incorrect, or illegible | | X |
| Label insecurely attached | | X |
| Not labeled in accordance with the Textile Fiber Products Identification Act | | X |
| Finishing defects: | | |
| Rancid or other objectionable odor | X | |
| Threads not adequately trimmed | | X |
| Unclean overall appearance | | X |
| Spotted, stained, streaked or otherwise discolored | | X |

4.3.3 Dimensional examination. The blankets shall be examined for defects in dimensions. The inspection level shall be S-3. Sample unit and lot size shall be as specified in 4.3.2. Any dimensions of the blanket not in conformance with dimensions specified herein shall be classified as a defect. The acceptable quality level shall be 1.5 defects per hundred units.

4.3.4 Inspection of preparation for delivery requirements. An inspection shall be made to determine whether the packaging, packing and marking comply with the requirements in section 5 of this specification. Defects shall be scored in accordance with table IV. For examination of interior packaging the sample unit shall be one shipping container fully prepared for delivery, selected at random just prior to the closing operations. Sampling shall be in accordance with MIL-STD-105. Defects of closure listed shall be examined on shipping containers fully prepared for delivery. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 with an acceptable quality level (AQL) of 4.0 defects per hundred units.

TABLE IV. Classification of preparation for delivery defects

| Examine | Defects |
|---|---|
| Markings (exterior and interior) | Omitted; incorrect; illegible; improper size, location, sequence, or method of application. |
| Materials | Any component missing or damaged. |
| Workmanship | Inadequate application of components such as incomplete closure of container flaps, loose strapping or distortion of container. |

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4.4 Testing of the end item. Tests shall be performed for the characteristics specified in table II. The methods of testing specified in Fed. Test Method Std. 191, wherever applicable, and as listed in table II shall be followed. The lot size shall be expressed in units of one blanket and the sample unit shall be two finished blankets. The sample size for each characteristic shall be in accordance with table V and the lot shall be unacceptable if one or more units fail to meet any requirements specified. The Government reserves the right to perform tests on blankets as deemed necessary to determine compliance with the provisions of this specification.

TABLE V. Lot and sample size

| Lot size | Sample size |
|---|---|
| Less than 800 | 2 |
| 801 to 22,000 | 3 |
| 22,001 and over | 5 |

5. PREPARATION FOR DELIVERY

5.1 Packaging. Packaging shall be level A, B, or C as specified (see 6.2).

5.1.1 Level A. Each blanket folded in accordance with commercial practice shall be inserted in a polyethylene bag and bag sealed.

5.1.2 Level B. The blankets shall be packaged as specified in 5.1.1.

5.1.3 Level C. The blankets shall be packaged in accordance with the suppliers commercial practice.

5.2 Packing. Packing shall be level A, B, or C as specified (see 6.2).

5.2.1 Level A. Unit packages of blankets in quantities as specified (see 6.2) shall be packed in a close-fitting box conforming to PPP-B-636, class weather resistant, styl OSC. The box shall be closed, waterproofed, sealed, and strapped in accordance with tl appendix to the box specification.

5.2.2 Level B. Unit packages of blankets in quantities as specified (see 6.2), shall be packed in a close-fitting box conforming to PPP-B-636, class domestic, style OSC. The box shall be closed in accordance with the appendix to the box specification.

5.2.3 Level C. Blankets of one description shall be packed to assure carrier acceptance and safe delivery at destination in containers complying with the Uniform Freight Classification Rules or National Motor Freight Classification Rules, as applicable.

5.3 Marking.

5.3.1 Civil agencies. In addition to markings required by the contract or order, the interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. Blankets are intended for use as thermal coverings for beds.

6.2 Ordering data. Purchasers should select the preferred options permitted herein, and include the following information in procurement documents:

(a) Title, number, and date of this specification.
(b) When preproduction sample is required (see 3.1).
(c) When stripes are required (see 3.3.1).

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(d) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).
(e) Number of unit packages in shipping container (see 5.2.1 and 5.2.2).

6.3 The Department of Defense has expressed no interest in this specification.

Preparing Activity:

GSA - FSS

Civil Agency Coordinating Activity:

FPI

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