

CCC-C-467C
February 8, 1972
SUPERSEDING
Fed. Spec. CCC-C-467B
May 12, 1965

FEDERAL SPECIFICATION

CLOTH, BURLAP, JUTE (OR KENAF)

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 burlap cloth made from jute or kenaf (see 6.1).

1.2 Classification.

1.2.1 Type and classes. The cloth shall be of one type and of the following classes (weight based on a 40-inch width) as specified (see 6.2).

- Class 1 - 7.5 ounces.
- Class 2 - 8 ounces.
- Class 3 - 10 ounces.
- Class 4 - 12 ounces.

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:

- | | |
|------------|---|
| T-T-871 | - Twine, Cotton, Wrapping. |
| T-T-911 | - Twine, Jute. |
| UU-P-268 | - Paper, Kraft, Untreated, Wrapping. |
| MMM-A-260 | - Adhesive, Water-Resistant, (For Sealing Waterproofed Paper). |
| PPP-B-1055 | - Barrier Material, Waterproofed, Flexible. |
| PPP-T-45 | - Tape, Gummed Paper, Reinforced and Plain, For Sealing and Securing. |
| PPP-T-60 | - Tape, Packaging, Waterproof. |

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Federal Standards:

- Fed. Std. No. 4 - Glossary of Fabric Imperfections.
- Fed. Std. No. 123 - Marking for Domestic Shipment (Civil Agencies).
- Fed. Std. No. 191 - Textile Test Methods.

(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, D.C. 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, D.C., Atlanta, Chicago, Kansas City, Mo., Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, Washington.

(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 Specification:

- MIL-T-40625 - Tubing, Bias Sewn (Burlap or Osnaburg), Cloth.

Military Standards:

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

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

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:

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Rules and Regulations Under the Textile Fiber Products Identification Act

(Copies may be obtained without charge from the Federal Trade Commission, Washington, D.C. 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, D.C. 20036.)

Uniform Classification Committee, Agent

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, Room 202, Union Station, 516 W. Jackson Blvd., Chicago, Illinois 60606.)

3. REQUIREMENTS

3.1 Materials.

3.1.1 Jute or kenaf. The cloth shall be made of natural color jute or kenaf, or any combination thereof (see 6.3), at the option of the supplier.

3.2 Physical requirements. The cloth shall conform to the physical requirements specified in table I when tested as specified in 4.5.

TABLE I. Physical requirements

Class	Warp yarns per inch		Filling yarns per inch		Weight per sq. yd. [1]
	Minimum	Maximum	Minimum	Maximum	Ounces
1	8	11	8	11	6.7
2	9	12	8	11	7.2
3	11	13	10	12	9.0
4	11	13	11	13	10.8

[1] A plus or minus tolerance of 5 percent in weight per square yard will be permitted.

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3.2.1 Width. Unless otherwise specified (see 6.2), the cloth shall have a minimum width, inclusive of selvages, of 40 inches.

3.2.2 Weave. The weave shall be plain, modified plain, or a three-leaf twill.

3.2.3 Selvages. The selvages shall be firm and straight, and may contain cotton yarn.

3.3 Length and put-up. Unless otherwise specified (see 6.2), the cloth shall be furnished in continuous lengths, each not less than 25 yards. The cloth shall be put-up in a full width roll and the maximum length of a roll when converted to pounds shall not exceed 225 pounds.

3.4 Tickets. Each roll shall have a ticket attached to the selvage at the inner end of the cloth with not finer than 5-ply cotton string doubled to not less than 8 inches long. The tickets shall be made of paper stock not less than 0.020 inch in thickness and the color shall be white or light in intensity to permit easy reading of markings. Entries on tickets shall be either printed, stamped or typed. Hand-written entries shall be prohibited. The ticket shall have a reinforced eyelet for attaching the typing cord and shall be legibly printed with water insoluble ink with the following information. In addition, the ticket shall have sufficient blank space for the inspector's stamp.

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Nomenclature-----
Class-----Width-----
Stock number-----
Supplier's name-----
Contract number and date-----
Specification number and date-----
Name of contracting office-----
Gross yards-----
Net yards-----
Inspector-----

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3.5 Fiber identification. Each roll shall be labeled, ticketed, or invoiced for fiber content in accordance with the Rules and Regulations of the Textile Fiber Products Identification Act.

3.6 Workmanship. The cloth shall conform to the quality and grade of product established by this specification. The occurrence of defects shall not exceed the applicable acceptable quality levels.

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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.

4.1.1 Certificate of compliance. Where certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification.

4.2 Inspection. Sampling for inspection shall be performed in accordance with MIL-STD-105, except where otherwise indicated hereinafter.

4.2.1 Component and material inspection. In accordance with 4.1 above, components and materials shall be tested in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified or qualified in the specification or applicable purchase document.

4.3 Examination of the end item. Examination of the end item shall be in accordance with 4.3.1 and 4.3.2.

4.3.1 Yard-by-yard examination. The defects listed below 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 one defect shall be counted. A continuous defect shall be counted as one defect for each warpwise yard or fraction thereof in which it occurs. The sample unit shall be one linear yard. The inspection level shall be level I of MIL-STD-105, and the acceptable quality level shall be 4.0 defects (one class) per one hundred units (yards). An approximate equal number of yards shall be examined from each roll selected. The number of rolls from which the sample is to be selected shall be in accordance with table II.

Glossary numbers,
section 1 of
Fed. Std. No. 4

Defect

90, 91, 92
78

Hole, cut, tear-any.
Smash.

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Glossary numbers,
section 1 of
Fed. Std. No. 4

Defect

11, 33	Broken or missing yarns. Two or more contiguous, missing more than 3 inches.
12	Open place or crack. Open at widest point four or more normal yarn diameters.
13, 14	Floats or skips. Multiple, 1 inch or more in combined warp and filling directions or sequence of skips.
55, 56	Selvage cut, broken or torn.
74, 75	Spots or stains. Heavy grease or oil 2 inches or more in combined directions.
-	Width - less than specified.

TABLE II. Sample size

Lot size in yards	Sample size in rolls	Maximum number of defects acceptable
Up to 1200 [1]	3	0
1201 to 3200	5	0
3201 to 10,000	8	0
10,001 to 35,000	13	0
35,001 and over	20	1

[1] If lot contains fewer than three rolls, each roll in the lot shall be examined.

4.3.2 Length examination.

4.3.2.1 Examination for length of individual rolls. The rolls selected for yard-by-yard examination shall be examined for gross length. Any gross length found to be less than the specified minimum length or any gross length found to be more than two yards below the gross length marked on the roll ticket shall be considered as a defect with respect to length. The sample unit for this examination shall be one roll. The number of rolls selected as a sample (sample size) for this examination and the acceptance number shall be in accordance with table II.

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4.3.2.2 Examination for total yardage in sample. The lot shall be unacceptable if the total of the actual gross length of rolls in the sample is less than the total of the gross length marked on roll tickets.

4.4 Examination of preparation for delivery requirements. An examination shall be made to determine whether packaging, packing and marking comply with the section 5 requirements. Defects shall be scored in accordance with the list below. The sample unit shall be one roll fully prepared for delivery. Defects of closure listed below shall be examined on rolls fully prepared for delivery. The lot size shall be the number of rolls in the end item inspection lot. The inspection level shall be S-2 and the AQL shall be 2.5 defects per 100 units.

Examine	Defect
Marking (exterior and interior)	Omitted, incorrect, illegible; of improper size, location, sequence, or method of application.
Materials	Any component missing or nonconforming. Any component damaged.
Workmanship	Inadequate application of components, such as incomplete closure of rolls, inadequate securing or sealing of wrapping materials, insecure sewing or loose wire ties. Bulging or distortion of containers.
Weight	Weight of rolls exceeds requirements.

4.5 Testing of the end item. The methods of testing specified in Fed. Std. No. 191, wherever applicable and as specified in table III, shall be followed. The sample unit shall be 1 continuous yard full width of the finished cloth. The lot shall be unacceptable if one or more sample units fail to meet any test requirement specified. The lot size shall be expressed in units of 1 yard. The sample size (number of sample units) shall be in accordance with the following:

Lot size (yards)	Sample size
800 or less	2
801 up to and including 22,000	3
22,001 and over	5

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TABLE III. Test methods

Characteristic	Requirement reference	Method
Identification of jute and kenaf	3.1.1	1260 [1]
Weight, oz. per sq. yard	3.2	5041
Yarns per inch	3.2	5050
Weave	3.2.2	Visual [2]

[1] Unless otherwise specified a certificate of compliance shall be submitted and will be acceptable for the stated requirements.

[2] One determination shall be made on each sample unit and result reported as "pass" or "fail".

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. The burlap cloth shall be wound open width on a convolute or spiral-wound chipboard tube. The ends of the tube shall be flush with or extend not more than one inch beyond each side of the maximum width of the rolled cloth. Each roll shall be completely inclosed in a wrap of 60-pound minimum basis weight kraft paper conforming to grade B of UU-P-268. The paper shall be of sufficient width to fold over and protect the ends of the roll. the paper wrapping shall be secured with 2-1/2 inch minimum width gummed paper tape conforming to type III, grade C of PPP-T-45. The tape shall be applied on the overlap seam the full length of the roll, across each end, and approximately 2-1/2 inches on the side of the roll opposite to the overlap seam. Stripe of tape shall be applied crosswise over the ends and shall extend a minimum of 2-1/2 inches along the length of the roll. Each roll of burlap cloth shall not exceed a weight of 225 pounds.

5.1.2 Level B (civil agencies). The burlap cloth shall be packaged in accordance with 5.1.1 (see 6.2).

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5.1.3 Level C. The burlap cloth shall be packaged to afford adequate protection against physical damage during shipment from the supply source to the first receiving activity. The supplier may use his standard practice when it meets this requirement. Each roll of burlap cloth shall not exceed a weight of 225 pounds.

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

5.2.1 Level A. Each roll of burlap cloth, packaged as specified in 5.1 shall be completely wrapped with waterproofed kraft paper conforming to class C-1 of PPP-B-1055 with all folds, seams, and laps completely sealed with a minimum 3/4-inch width continuous seam of adhesive conforming to type I or II grade B of MMM-A-260 or with 3-inch minimum width olive drab color cloth tape conforming to type IV class 1 of PPP-T-60. Each roll of burlap cloth shall then be overwrapped with the same class burlap cloth as in the roll. The cloth wrapping shall be securely sewn with type I, 16-ply cotton twine conforming to T-T-871 or type I, size No. 2 jute twine conforming to T-T-911, with approximately one stitch to the inch and every third stitch knotted. Closure shall be effected by securing each open end with two wire ties. The first wire tie shall be applied as close to the contents as possible. The second wire tie shall be applied approximately 1 inch from the first wire tie, with the twisted ends positioned opposite to the ends of the first wire tie. The wire ties shall be not less than 6 inches long, 0.072 inch thick galvanized soft iron or steel wire with a 1/2-inch diameter formed eye at each end. In lieu of the sewn wrapping, the cloth covering may be in bias-sewn tubing form or bags (tubing presewn one end) conforming to MIL-T-40625 with closure effected by securing each open end with two wire ties as specified above.

5.2.2 Level B. Each roll of burlap cloth, packaged as specified in 5.1, shall be packed as specified in 5.2.1, except that the waterproof kraft paper shall not be required.

5.2.3 Level C. The burlap cloth, packaged as specified in 5.1, shall be packed in a manner that will assure carrier acceptance and safe arrival at destination in compliance with the Uniform Freight Classification rules, National Motor Freight Classification rules or other rules applicable to the mode of transportation.

5.3 Marking.

5.3.1 Civil agencies. In addition to any special marking required by the contract or order, shipments shall be marked in accordance with Fed. Std. No. 123.

5.3.2 Military requirements. In addition to any special marking required by the contract or order, shipments shall be marked in accordance with MIL-STD-129.

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6. NOTES

6.1 Intended use. Burlap cloth covered by this specification is intended for use in equipage, covering of baled material, camouflage materials, sand bags, and overwrapping of textile products when packed for delivery.

6.2 Ordering data. Purchasers should exercise any desired options offered herein and procurement documents should specify the following:

- (a) Title, number and date of this specification.
- (b) Class of cloth required (see 1.2).
- (c) Width, if other than specified (see 3.2.1).
- (d) Length, if other than specified (see 3.3).
- (e) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).
- (f) When level B packaging is required for civil agencies (see 5.1.2).

6.3 Jute and kenaf.

6.3.1 Jute. Jute is defined as the bast fiber obtained from various species of Corchorus.

6.3.2 Kenaf. Kenaf is defined as the bast fiber obtained from Hibiscus Cannabinus.

6.4 Level B packing shall be used by ordering agencies only when shipment is known to be made to a holding supply depot or warehouse for which partial shipment will be made to ultimate consumers.

MILITARY CUSTODIANS:

Army - GL
Navy - SA
Air Force - 82

User activities:

Army - AT, SM
Navy - MC

Preparing activity:

Army - GL

CIVIL AGENCY INTEREST:

GSA - FSS, PCD
USDA - AFS

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein. Price 15 cents each.