MILITARY SPECIFICATION

CLOTH, SILK, MOMME (FOR USE WITH AMMUNITION)

1. SCOPE

1.1 Scope.-This specification covers one type of momme silk cloth (see 6.2).

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATION

FEDERAL

CCC-T-191 - Textiles; Test Methods

STANDARDS

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes (ABC-STD-105).
MIL-STD-109 - Inspection Terms and Definitions.
MIL-STD-129 - Marking for Shipment and Storage.

(Copies of specifications, standards, drawings and publications 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 publications.-The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids shall apply.

Consolidated Classification Committee

Consolidated Freight Classification 21.-Ratings, Rules and Regulations Association of American Railroads.

FSC: 1315

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(Application for copies of these freight classification rules should be addressed to the Secretary of Operating Transportation Division, 59 VanBuren Street, Chicago, Illinois.)

National Motor Freight Classification No. A-2.-Naming Uniform Rating Rules and Regulations.

(Copies may be obtained from the Issuing Officer, 1424-16th Street, N. W., Washington 6, D. C.).

3. REQUIREMENTS

3.1 Material.-The Silk Cloth shall be 2.75 Momme filament, 13/15 Denier, boiled off, bleached and finished.

3.2 Physical requirements.-The finished cloth shall comply with the requirements in Table I.

TABLE I

Properties	
Thread Count (threads per inch)	
Warp, Minimum	120
Fill, Minimum	90
Weight, (ozs. per square yard, Maximum)	0.33
Weave	Plain
Fabric (appearance)	Smooth

3.3 Width.-The width of the finished cloth with a tolerance of 1/2 inch shall be as specified in the contract or purchase order.

3.4 Put-Up.-The put-up (flat fold or roll, size of roll) of the finished cloth shall be as specified in the contract or purchase order.

3.5 Ash.-The ash content shall be 1.0 percent, maximum, when tested as specified in 4.3.4.

3.6 Workmanship.-The finished cloth shall be uniformly and closely woven, dry, and free of bare spots, lumps, streaks or ridges.

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4. QUALITY ASSURANCE PROVISIONS

4.1 General quality assurance provisions.-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, the supplier may utilize his own facilities or any commercial laboratory acceptable to 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 supplies and services conform to prescribed requirements. Reference shall be made to Standard MIL-STD-109 in order to define terms used herein.

4.1.1 Submission of product.-At the time the completed lot of product is submitted to the Government for acceptance, the contractor shall supply the following information accompanied by a certificate which attests that the information provided is correct and applicable to the product being submitted:

a. A statement that the lot complies with all of the quality assurance provisions specified within this specification.
b. Number of units of product inspected.
c. Results obtained, by defect code, for all inspections performed.
d. Drawing, specification number and date, together with an identification and date of changes.
e. Certificates of conformance on all material purchased by the contractor when such material is controlled by Government or commercial specifications referenced in any of the contractual documents.
f. Number of items in the lot.
g. Date submitted.

The certificate shall be signed by a responsible agent of the certifying organization. The initial certificate submitted shall be substantiated by evidence of the agent's authority to bind his principal. Substantiation of the agent's authority will not be required with subsequent certificates unless, during the course of the contract, this authority is vested in another agent of the certifying organization.

4.2 Inspection provisions.

4.2.1 Lot formation.-The term "lot" as used throughout this specification refers to an inspection lot, which is defined as an essentially homogeneous collection of units of product from which a representative sample is drawn and inspected to determine conformance of the lot with applicable requirements.

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The sample selected shall represent only that quantity of units from which the sample was drawn and shall not be construed to represent any prior or subsequent quantities presented for inspection. Homogeneity shall be considered to exist provided the lot has been produced by one manufacturer in one unchanged process, in accordance with the same drawings, same drawing revisions, same specifications and same specification revisions. Changes to the process, specification, or drawings not affecting safety, performance, interchangeability, or storage, as determined by the Government, shall not be deemed to alter the homogeneity of the lot. Inspection lots shall comply with MIL-STD-105. Unless otherwise approved by the contracting officer, the inspection lot size of end items deliverable under the contract shall be not less than the smallest weekly estimate of quantities contractually scheduled for production during the contract period nor more than the largest monthly quantity contractually scheduled for delivery during the contract period. Inspection lots of components or subassemblies, other than the items of delivery, shall be homogeneous and of a size mutually convenient to both the contractor and the Government inspector.

4.2.2 Examination.-A sample of five (5) bolts of cloth shall be selected from each lot for the inspections specified in the following classification of defects. The same bolts of cloth shall be used for tests prescribed in 4.3.

4.2.2.1 Silk Cloth

Categories	Defects	Method of Inspection	Code No. (see 6.3)
Critical: None defined.			
Major:			
101.	Evidence that the cloth has not been bleached.....	Visual	01001

4.2.2.2 Cloth in bolts prior to packaging.

Categories	Defects	Method of Inspection	Code No.
Critical: None defined.			
Major: None defined.			

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Minor:			
201.	Weave improper	Visual	02001
202.	Holes, tears, dropped or loose threads	Visual	02002
203.	Evidence of poor workmanship (see 3.6)	Visual	02003

4.2.2.3 Sealed box or container

Categories	Defects	Method of Inspection	Code No.
Critical:	None defined.		
Major:			
101.	Gross weight, max.	Scale	03001
102.	Marking misleading or unidentifiable	Visual	03002
103.	Boxes improperly closed	Visual	03003

4.2.3 Testing

4.2.3.1 Sampling for tests.-A sample two (2) yards long shall be selected from each of the five bolts used in 4.2.2, but none of the samples shall be taken from the first five (5) yards on each bolt. If any sample fails to comply with any requirement, the lot shall be rejected.

4.3 Test methods and procedures.

4.3.1 Width, Major defect, Code No. 04001.-The width of the cloth shall be determined in accordance with Specification CCC-T-191, Method 5020.

4.3.2 Weight, Major defect, Code No. 05001.-The weight of the cloth shall be determined in accordance with Specification CCC-T-191 Method 5040.

4.3.3 Thread Count, Major defect, Code No. 06001.-The thread count of the cloth shall be determined in accordance with Specification CCC-T-191, Method 5050.

4.3.4 Ash, Major defect, Code No. 07001.-Parts from each of the pieces comprising the sample shall be cut so as to obtain a total of approximately 2 gm., transferred to a tared porcelain crucible, and moistened with concentrated nitric acid. The crucible shall be heated on a steam bath for 1 hour and then heated carefully over a flame so as to avoid any mechanical loss. When the contents of the

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crucible have been charred, it shall be heated to dull redness until all carbonaceous matter has been burned off. The crucible shall be cooled in a desiccator, and weighed. The percent of ash in the sample shall be calculated to determine compliance with 3.5 as follows:

$$\text{Percent ash} = \frac{100\ (A - B)}{W}$$

Where:

A = weight of crucible and ignited residue.
B = weight of crucible empty.
W = weight of sample.

5. PREPARATION FOR DELIVERY.

5.1 Level C.-The cloth shall be packaged in accordance with suppliers commercial practice. Protection shall be such as to prevent deterioration during shipment and subsequent interval preliminary to use. The cloth shall be packed for shipment in conformance with Consolidated Freight Classification rules and container specifications for rail shipments, or with National Motor Freight Classification rules and containers for truck shipment.

5.2 Marking.-Interior packages, and exterior containers shall be marked in accordance with Standard MIL-STD-129.

6. NOTES

6.1 Ordering data.-Procuring documents should specify the following:

a. Title, number and date of this specification.
b. Width of material required, including manufacturing tolerance (see 3.3).
c. Color of material required.
d. Put-up

6.2 Intended use.-The cloth is intended for use as cartridge cloth in ammunition.

6.3 Inspection code numbers.-The five digit code numbers assigned to the inspections herein are to facilitate future data collection and analysis by the Government.

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6.4 Test results.-A copy of the test results should be forwarded to: Commanding Officer, ATTN: SMUPA-ND2, Picatinny Arsenal, Dover, New Jersey, 07801.

Custodian:
ARMY-MU

Preparing Activity:
ARMY-MU

Project Number: 1315-A591

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