

INCH-POUND

A-A-50196B
JUNE 20, 2000

Superseding
A-A-50196A
May 23, 1991

COMMERCIAL ITEM DESCRIPTION

THREAD, SILK

The general services administration has authorized the use of this commercial item description in preference to Federal Specification V-T-301.

1. **SCOPE**. This document covers silk thread for sewing by machine or hand.
2. **CLASSIFICATION**. The thread shall be in the following types.

Machine Twist
Button hole twist, tailors
Buttonhole twist, dry goods
Hand sewing
Embroidery

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn.: DSCP-COCT, 700 Robbins Ave., Philadelphia PA., 19111-5092.

AMSC N/A

FSC 8310

DISTRIBUTION STATEMENT A. *Approved for public release; distribution is unlimited*

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SALIENT CHARACTERISTICS

3.1 General description. The thread shall be made from silk. The Machine twist, and Button hole twist thread shall have final twist in “Z” direction. The Hand Sewing, and Embroidery thread shall have final twist in the “S” direction.

3.2 Physical requirements of thread. The thread shall conform to the physical requirements specified in Table I.

TABLE I Physical requirements

Type	Tex	Breaking Strength lbs. min.	Test Method
Machine Twist			
	24	1.6	ASTM-D-204 <u>1/ 2/</u>
	27	1.9	ASTM-D-204 <u>1/ 2/</u>
	35	2.4	ASTM-D-204 <u>1/ 2/</u>
	45	2.9	ASTM-D-204 <u>1/ 2/</u>
	60	4.0	ASTM-D-204 <u>1/ 2/</u>
	70	4.7	ASTM-D-204 <u>1/ 2/</u>
	90	6.6	ASTM-D-204 <u>1/ 2/</u>
	135	8.7	ASTM-D-204 <u>1/ 2/</u>
	150	10.2	ASTM-D-204 <u>1/ 2/</u>
Button Hole Twist Tailors			
	105	6.6	ASTM-D-204 <u>1/ 2/</u>
	135	8.7	ASTM-D-204 <u>1/ 2/</u>
	150	10.2	ASTM-D-204 <u>1/2/</u>
Button Hole Twist Dry Goods			
	70	4.7	ASTM-D-204 <u>1/ 2/</u>
Hand Sewing			
	40	2.4	ASTM-D-204 <u>1/ 2/</u>
	60	4.0	ASTM-D-204 <u>1/ 2/</u>
Embroidery			
	50	3.2	ASTM-D-204 <u>1/ 2/</u>
	70	4.7	ASTM-D-204 <u>1/ 2/</u>
	90	6.6	ASTM-D-204 <u>1/ 2/</u>

1/ Testing speed shall be 12 ± 0.5 in./min., and a 10 inch gauge length shall be used.

2/ Five determinations per sample unit.

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3.3 Color. The color shall be as specified in the applicable end item specification or in the contract order. The color of the finished thread, after removal of finish, shall match the standard sample, when viewed under filtered tungsten lamps that approximate artificial daylight and that have a correlated color temperature of 7500 ± 200 K with illumination of 100 ± 20 foot candles, and shall be a good match to the standard sample under incandescent lamplight at 2300 ± 200 K.

3.3.1 Finish Removal Procedure. Before evaluation for color matching and testing for colorfastness, the thread shall be wet dry-cleaned in accordance with ASTM D-204. Excess solvent shall be removed by centrifuging or wringing. The sample shall be rinsed in distilled water at 120 degrees to 160 degrees F and dried at a temperature not exceeding 180 degrees F. The dried sample shall then be conditioned for a minimum of 4 hours prior to evaluation for shade matching or colorfastness testing.

3.4 Colorfastness. Unless otherwise specified in the end item specification or set forth in the contract, the thread for colorfastness to laundering (after 3 cycles), and wet dry-cleaning, in accordance with ASTM D 204, shall show a 3.5 minimum on the AATCC Gray Scale for Color Change. For colorfastness to light (after 40 standard fading hours) when tested in accordance with AATCC 16, Option A. The thread shall show a 3.5 minimum on the AATCC Gray Scale for Color Change. In all three tests the specimens shall be dried after each of the 3 laundering cycles. Only the Wool fiber of the color transfer cloth shall be evaluated for staining.

3.5 Finishing materials. No chemical finishes or treatments shall be applied for the purpose of increasing breaking strength. The thread shall have a soft or wax finish as indicated for the type as specified in the applicable end item specification or procurement document. Soft finish thread shall be dressed thread, having a smooth surface and body suitable for hand sewing.

3.6 Put-up. Unless otherwise specified, the thread shall be put-up on holders such as commercial spools, cones, or tubes as specified in the contract. The thread shall be wound around the specified holder in one continuous piece, so that each turn and layer is free of entanglement. The outside ending of the thread shall be secured to prevent unwinding, loosening or slipping during handling, shipping, or storage.

3.7 Labeling. Each holder shall have a label, adhered securely as to remain in place and be clearly legible until all thread has been removed. The label shall be printed with information related to length in yards, direction of twist, color, size (Tex), name of thread manufacturer, and nomenclature specifying type (i.e. Machine twist, or Embroidery).

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4 REGULATORY REQUIREMENTS.

4.1 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible in accordance with paragraph 23.403 of the Federal Acquisition Regulation Act (FAR), provided that the material meets or exceeds the operational and maintenance requirements and promotes economically advantageous life cycle costs.

5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description and conform to the producer's own specifications, standards and quality assurance practices. The Government reserves the right to require proof of such conformance.

5.2 Preservation, packing and marking. The preservation, packing and marking shall be as specified in the contract or order.

6. NOTES

6.1 Sources of Nongovernment Documents.

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM-D-204 - Standard Test Methods For Sewing Threads

(Applications for copies should be addressed to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19426-2959.)

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)

AATCC – 16 - Colorfastness to Light

Applications for copies should be addressed to American Association of Textile Chemists and Colorists (AATCC) PO Box 12215, Triangle Park, NC 27709-2215)

THE COLOR ASSOCIATION OF THE UNITED STATES, INC.

Standard Color Card of America

(Color cards are available from The color association of the United States. 589 Eight Avenue, 12th floor, New York, NY 10018. The web site is www.colorassociation.com)

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(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services)

6.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number and date of this document.
- b. Type, and size of thread required (see 1.1).
- c. Selection of packaging, preservation, and marking (see 5.2)
- d. Finish required, specify soft or wax (see 3.5)

6.3 Replacement data. The types and classes of silk thread covered by this commercial item description replace the items covered by A-A-50196A as indicated below:

A-A-50196A

Type I
Type II - Class 1
Type II - Class 2
Type III
Type IV

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Machine Twist
Button hole twist, tailors
Button hole Twist, dry goods
Hand Sewing
Embroidery

MILITARY INTRESTES:

Custodians

Army-GL
Navy – NU
Air Force - 11

CIVIL AGENCY ACTIVITY:

GSA - FSS
HHS
JOD - FPI

Review Activity

Army- MD, AR
Navy – MC, OS
Air Force 82, 99

PREPARING ACTIVITY

DLA-CT

Project number 8310-0212