

INCH-POUND

A-A-50196A

May 23, 1991

SUPERSEDING

A-A-50196

June 30, 1989

## 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.

Abstract. This commercial item description covers silk thread for sewing by machine or by hand.

## 1. CLASSIFICATION

1.1 Classification.

	Ticket no. (size)	Yards per ounce minimum <u>1</u> /	Breaking strength pounds, minimum <u>2</u> /
Type I	00	1170	1.6
(Machine twist)	0	1035	1.9
	A	810	2.4
	B	660	2.9
	C	495	4.0
	D	415	4.7
	E	300	6.6
	F	210	8.7
	FF	190	10.2

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any other data which may improve this document should be sent to: Commander, U.S. Army Natick Research, Development, and Engineering Center, ATTN: STRNC-IRT, Natick, MA 01760-5019.

AMSC N/A

FSC 8310

DISTRIBUTION STATEMENT A. Approved for public release; distribution in unlimited.

## A-A-50196A

	Ticket no. (size)	Yards per ounce minimum <u>1</u> /	Breaking strength pounds, minimum <u>2</u> /
Type II, Class 1 (Buttonhole twist, tailors)	12	300 <u>3</u> /	6.6
	10	210 <u>3</u> /	8.7
	8	190 <u>3</u> /	10.2
	6	150 <u>3</u> /	12.2
Type II, Class 2 (Buttonhole twist, dry goods)	D	415	4.7
Type III (Hand sewing)	A	765 <u>3</u> /	2.4
	C	470 <u>3</u> /	4.0
Type IV (Embroidery)	BB	585	3.2
	D	414	4.7
	E	300	6.6

1/ Test method 4010 of FED-STD-191

2/ Test method 4100 of FED-STD-191

3/ After wax removal

## 2. SALIENT CHARACTERISTICS

2.1 General description. The thread shall be made from silk. Types I and II shall be 3-ply; final twist in "Z" direction. Types III and IV shall be 2-ply; final twist in "S" direction.

2.2 Color. The color (shade) shall be as specified in the applicable end-item specification or in the contract (see 5.1). The dyed thread shall conform to the applicable approved shade standard (5.3).

2.3 Colorfastness. Unless otherwise specified in the end item specification or set forth in the contract or order, the dyed thread shall show "good" fastness to laundering (after 3 cycles), wet drycleaning, and light. The applicable test methods are as follows:

<u>Characteristic</u>	<u>FED-STD-191 Test Method</u>
Laundering (after 3 cycles)	5614 <u>1</u> /
Light	5660 <u>2</u> /
Wet drycleaning	5622
Perspiration (when specified)	5680

## A-A-50196A

1/ The test specimens shall be dried after each of the three cycles. Only the wool fiber of the color transfer cloth shall be evaluated for staining.

2/ The time of exposure shall be 40 standard fading hours.

2.4 Finish removal procedure (from types II and III, when specified).

Before evaluation for shade matching, and testing for colorfastness, except for colorfastness to wet drycleaning, the sample of thread shall be wet drycleaned in accordance with Method 5622 of FED-STD-191 (disregarding reference to the standard sample). Excess solvent shall be removed by centrifuging or wringing. The sample shall then be rinsed in distilled water at 120° to 160°F and dried at a temperature not exceeding 180°F. The dried sample shall then be conditioned for a minimum of 4 hours prior to evaluation for shade matching or colorfastness.

2.5 Shade matching. 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.

2.6 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 and class 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. Sizes FF and finer thread shall have not more than one thread knot per ounce of thread per holder. Sizes heavier than FF shall average not more than one thread knot per 2 ounces of thread per holder.

2.7 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.

2.8 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, ply, size (ticket number), name of thread manufacturer, and nomenclature specifying type and class.

### 3. QUALITY ASSURANCE

## A-A-50196A

3.1 Certification. The contractor shall certify, and maintain substantiating evidence, that the product offered meets the salient characteristics and requirements of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

3.2 Regulatory requirements. The offeror/contractor is encouraged to use recovered material in accordance with Public Law 94-580 to maximum extent practicable.

#### 4. PACKAGING

4.1 Packaging. Tubes, cones, or spools of thread, of like description, each weighing 8 ounces or less, shall be packaged in set-up paperboard or folding paperboard boxes. Those weighing more than 8 ounces each shall be individually packaged in a snug-fitting clear plastic film bag. The bag shall be closed by means of a twist tie, or by tucking the open end into the end of the tube, cone, or spool.

4.2 Packing. Thread of like description, packaged as specified, shall be packed in a snug-fitting fiberboard shipping container conforming to style RSC-L, type CF, class domestic, variety SW, grade 275 of PPP-B-636. The inside of each fiberboard container shall be fitted with a liner conforming to type CF, variety DW, class domestic, grade 275 of PPP-B-636. The fiberboard liner is not required when thread is packaged in paperboard boxes. The shipping container shall be of a size that can be palletized in accordance with MIL-STD-147. The weight of a packed shipping container shall not exceed 50 pounds. Shipping containers shall be closed in accordance with the appendix of PPP-B-636.

4.3 Palletization. When specified (see 5.1), thread, packed as specified, shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147.

4.4 Marking. In addition to any special markings required by the contract or purchase order, unit packs, shipping containers and palletized unit loads shall be marked in accordance with MIL-STD-129.

#### 5. NOTES

##### 5.1 Ordering data.

- a. Title, number, and date of this document.
- b. Type, class, and size of thread required (see 1.1).
- c. Color required (see 2.2).
- d. Colorfastness properties required (see 2.3).
- e. When palletization is required (see 4.3).

A-A-50196A

5.2 Source of government documents. Copies of military and Federal documents are available from:

Standardization Documents Order Desk  
Building 4D  
700 Robbins Avenue  
Philadelphia, PA 19111-5094

5.3 Sample. For access to samples, address the contracting activity issuing the invitation for bids or request for proposal, or as directed by the contracting activity.

MILITARY INTERESTS:

Custodians

Army - GL  
Navy - NU  
Air Force - 11

Review Activities

Army - MD  
Air Force 82, 99  
DLA - CT

User Activities

Army - AR  
Navy - MC, OS

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS  
HHS  
JUS - FPI

PREPARING ACTIVITY:

Army - GL  
Project 8310-0185