

INCH-POUND

A-A-50197A
June 21, 2000
Superseding

A-A-50197
June 30, 1989

COMMERCIAL ITEM DESCRIPTION

THREAD, LINEN

The General Services Administration has authorized the use of this commercial item description in preference to Federal Specification V-T-291.

1. **SCOPE.** This document covers linen thread for sewing by machine or hand.

1. **CLASSIFICATION.** The thread shall be in the following types.

2.1 Type

Three—cord (stitching) thread

Natural finish having no consistency or luster other than that inherent in the linen

Polished and lustrous, having a smooth dressed surface with no protruding fibers

Lockstitch twist thread

Natural finish having no consistency or luster other than that inherent in the linen

Polished and lustrous, having a smooth dressed surface with no protruding fibers.

Hand Shoe Thread

Natural Finish, having no consistency or luster other than that inherent in the linen.

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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3 SALIENT CHARACTERISTICS

3.1 General description. The thread shall be made of “long-line” flax. Types I and II shall have “S” or “Z” final twist as specified in the applicable end item specification or in the contract or order. Type III shall have a “Z final twist.

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

TABLE I Physical requirements

	<u>Tex Natural</u>	<u>Tex Polished</u>	<u>Breaking Strength lbs.</u>	<u>Test Method</u>
Three Cord				
Stitching				
Thread				
	90	105	6.0	ASTM -D-204 <u>1/ 2/</u>
	120	135	7.5	ASTM -D-204 <u>1/ 2/</u>
	150	150	8.5	ASTM -D-204 <u>1/ 2/</u>
	180	180	10.0	ASTM -D-204 <u>1/ 2/</u>
	210	210	12.0	ASTM -D-204 <u>1/ 2/</u>
	240	270	18.0	ASTM -D-204 <u>1/ 2/</u>
	300	350	19.0	ASTM -D-204 <u>1/ 2/</u>
Lockstitch				
Twist Thread				
	240	270	18.0	ASTM -D-204 <u>1/ 2/</u>
	350	350	24.0	ASTM -D-204 <u>1/ 2/</u>
	400	450	30.0	ASTM -D-204 <u>1/ 2/</u>
	500	500	38.0	ASTM -D-204 <u>1/ 2/</u>
	600	600	44.0	ASTM -D-204 <u>1/ 2/</u>
	700	700	52.0	ASTM -D-204 <u>1/ 2/</u>
	800	800	59.0	ASTM -D-204 <u>1/ 2/</u>
	800	900	65.0	ASTM -D-204 <u>1/ 2/</u>
	900	900	72.0	ASTM -D-204 <u>1/ 2/</u>
	1000	1000	81.0	ASTM -D-204 <u>1/ 2/</u>
Hand Shoe				
Thread				
	120		6.0	ASTM -D-204 <u>1/ 2/</u>
	150		10.0	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 thread shall be natural color (boiled or scoured), bleached white, or shall be a good (good is defined as a perceptible not appreciable difference in color) match to the standard sample. If no standard is available the thread shall be a good match to the end item base cloth.

3.4 Colorfastness. The colorfastness of dyed finished thread shall be as specified in the applicable end item specification or as set forth in the contract except that when requirements are not stated or referenced to a standard sample for colorfastness, the thread shall show a colorfastness equal to or better than a 3.5 minimum on the AATCC Gray Scale for Color Change to colorfastness to combined laundering and bleaching in accordance with AATCC - 61 Test 4A, and light (40 standard fading hours) in accordance with AATCC 16, Option A. When a standard is referenced, the thread shall be “equal to or better than the standard sample” for the specified requirement..

3.5 Finishing materials. The thread shall have no chemical finishes or treatments other than those commonly used in commercial threads or those demonstrated to have no deleterious effects on linen thread, including effect in prolonged storage. No chemical finishes or treatments shall be applied for the purpose of increasing breaking strength.

3.6. Put-up. Unless otherwise specified, the thread shall be put-up on a nominal length per holder or 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 slippage during handling, shipping or storage.

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

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 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.

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6. NOTES

6.1 Intended use. The thread is intended for sewing by machine or by hand

6.2 Sources of Nongovernment Documents.

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM -D-204 - Tensile Properties of Yarns by the Single Strand Method.

(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

AATCC- 61 - Colorfastness to Combined Laundering & Bleaching

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)

(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)

6.3 Ordering data.

- a. Title, number, and date of this document.
- b. Type, and size of thread required (see 2.1), and (3.2)
- c. Selection of packaging, preservation, and marking (see 5.2)

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6.4 Replacement data. The types and classes of linen thread covered by this commercial item description replace the items covered by V-T-291, and A-A-50197 as indicated below:

<u>CID A-A-50197A</u>	<u>CID A-A-50197</u>		<u>V-T-291</u>	
	<u>Type</u>	<u>Class</u>	<u>Type</u>	<u>Class</u>
Three cord (stitching) thread Natural finish	I	1	A	1
Three cord (stitching)thread Polished finish	I	2	A	2
Lockstitch twist thread Natural finish	II	1	B	1
Lockstitch twist thread Polished finish	II	2	B	2
Hand shoe thread Natural finish	III	1	C	1

MILITARY INTERESTS:Custodians:

Army – GL
Navy - NU

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS
HHS - NIH

PREPARING ACTIVITY
DLA – CT

Review Activities:

Army- MD, EA, ME
Navy- MC
DSWA – DS

Project 8310-0213