



PIA-C-43805C
10 March 2011

Superseding
PIA-C-43805B
03 May 2007

The following commercial specification has been adopted from the military document. Revision A includes all known accepted revisions, amendments, notices, and Department of Defense (DoD) engineering changes previously developed for this item. Revisions B and forward include changes adopted to reflect technology and design evolution.

CLOTH, NETTING, PARACHUTE SKIRT EXTENSION, NYLON, RASCHEL KNIT

The Parachute Industry Association makes this document available for use by Industry and Government organizations that wish to apply this specification to their products.

1. SCOPE

1.1 Scope. This specification covers requirements for one type of raschel knitted nylon mesh net cloth.

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in Sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification nor is it recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in Section 3 and 4 of this specification, whether or not they are listed.

2.2 Government publications.

2.2.1 Government publications. The following Government publications form a part of this document (see 2.4).

MILITARY

MIL-STD-1491 - Glossary of Knitting Imperfections

FEDERAL TRADE COMMISSION (FTC)

16 CFR 303 - Rules and Regulations Under the Textile Fiber Products Identification Act

(Copies are available online at www.ftc.gov or from the Federal Trade Commission, 600 Pennsylvania Avenue, N.W., Washington, DC 20580-0001. Electronic copies may be also obtained from <http://www.access.gpo.gov/>.)

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Documents
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2.3 Non-government publications. The following documents form a part of this document.

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)

- AATCC 16 - Colorfastness to Light
- AATCC 61 - Colorfastness to Laundering: Accelerated
- AATCC Evaluation Procedures:
 - 1 Gray Scale for Color Change
 - 2 Gray Scale for Staining
 - 8 AATCC 9- Step Chromatic Transference Scale
 - 9 Visual Assessment of Color Difference Textiles.

(Applications for copies should be addressed to the AATCC National Headquarters, P.O. Box 12215 Research Triangle Park, NC 27709-2215. Electronic copies may be obtained from www.aatcc.org.)

AMERICAN SOCIETY FOR QUALITY (ASQ)

- ANSI/ASQ Z1.4 - Sampling Procedures and Tables for Inspection by Attributes

(Copies are available online at: www.asq.org or American Society For Quality, 600 North Plankinton Avenue, Milwaukee, WI 53203.

ASTM INTERNATIONAL (ASTM)

- ASTM D 276 - Standard Test Methods for Identification of Fibers in Textiles
- ASTM D 6193 - Standard Practice For Stitches and Seams

(Application for copies should be addressed to the ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959. Electronic copies may be obtained from www.astm.org/.)

2.4 Revision levels of subsidiary documents. The documents listed in Section 2 shall be defined as subsidiary documents, other Government publications and non-government publications. Unless otherwise specified by the procuring activity, the revision level of subsidiary documents shall be the latest revision level as listed in the Acquisition Streamlining and Standardization Information (ASSIST) database located at: <https://assist.daps.dla.mil/quicksearch/>.

2.5 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Materials. The nylon yarn used in the manufacture of the netting shall be a bright, high tenacity, light and heat resistant, polyamide prepared from hexamethylene and adipic acid or its derivatives. The nominal denier of yarn, prior to dyeing, shall be 840. The yarn shall have a minimum melting point of 471°F (244°C) when tested as specified in 4.2.1. The yarn or the netting shall not be bleached in any manner or process.

3.2 Color. Unless otherwise specified (see 6.2) the color of the netting shall be natural. If other than natural color netting is specified, the color shall be obtained by yarn dyeing.

3.2.1 Visual shade matching. The color of the dyed netting shall match the standard when viewed using the AATCC Evaluation Procedure 9, Option A, with sources simulating artificial daylight D75 illuminate with color temperature of $7500 \pm 200\text{K}$, with illumination of 100 ± 20 foot candles, and shall be a good match to the standard under incandescent lamplight at $2856 \pm 200\text{K}$.

3.2.2 Colorfastness. The dyed netting shall show fastness to light, laundering and water as follows:

Characteristic	Rating, minimum
Light (Fade) ^{1/}	3-4
Laundering ^{1/}	3-4
Water ^{1/}	3-4

Notes:

^{1/} Rating using AATCC Evaluation Procedure 1, Gray Scale for Color Change.

3.3 Physical Requirements.

3.3.1 Knit. The netting shall be of the mesh type knitted on a single needle bar raschel machine (see 6.3). The cross section of the mesh leg (pillar) shall consist of 5 ends of 840 denier yarn (total nominal denier of 4200). The joining of the pillars (chain stitch) shall be accomplished by a single crossover of yarns during the knitting operation (see 6.3).

3.3.2 Mesh size. The mesh size in the finished cloth netting shall be 3-3/4 inches by 3-3/4 inches (inside measurements) $\pm 1/4$ inch when measured as specified in 4.2.2.1. There shall be 5 mesh repeats in the overall width of the finished netting.

3.3.3 Width. The overall width of the finished netting shall be 18 inches ± 1 inch when measured as specified in 4.2.2.1. In the preparation of this width, the netting shall be cut so as to produce square meshes when the netting is hung in the lengthwise direction. When edges are cut, the extending tails of the cut edges shall be $1/2$ inch $\pm 1/8$ inch.

3.3.4 Sewing of cut edge. One edge of the netting shall have either a knitted selvedge or the edge shall be sewn so that there shall be no loose ends along the full length, (see 3.4) and the following sewing requirements shall apply:

1. Thread - Single end of 840 denier nylon yarn for needle and loopers (see 3.1)
2. Seam type - EFd-1 per ASTM D 6193