



AEROSPACE MATERIAL SPECIFICATION

AMS3718™

REV. C

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Superseding AMS3718B

Webbing, Woven Nylon
For Decelerators

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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Documents

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1. SCOPE:

1.1 Form:

This specification and its supplemental detail specifications covers a woven nylon in the form of webbing.

1.2 Application:

Primarily for use in construction of decelerators.

1.3 Classification:

Webbing is classified by width and breaking strength as shown in the titles of the detail specifications.

1.4 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The applicable issue of referenced publications shall be the issue in effect on the date of the purchase order.

2.1 U.S. Government Publications:

Available from DODSSP, Subscription Services Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

FED-STD-4	Glossary of Fabric Imperfections
FED-STD-191	Textile Test Methods
MIL-P-43334	Packaging of Textile Webbing and Tape
MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes

2.2 Other Publications:

Available from Federal Trade Commission, Washington, DC 20580.

Textile Fiber Products Identification Act, Rules and Regulations

3. TECHNICAL REQUIREMENTS:

3.1 Detail Specifications:

The requirements for a specific webbing shall consist of all requirements specified herein in addition to requirements specified in the detail specification. In case of conflict between requirements of this specification and an applicable detail specification, requirements of the detail specification shall govern.

3.2 Material:

The yarn shall be a bright, high tenacity, light and heat resistant nylon and shall be a polyamide prepared from hexamethylene diamine and adipic acid or its derivatives. It shall have a melting point not lower than 244 °C (471 °F). Supplier shall certify that the yarn has not been subjected to any type of bleaching process. Yarn shall be of the filament count, denier, twist, and color and webbing shall be of the weave specified in the applicable detail specification.

3.3 Properties of Yarn:

Shall be as specified in the applicable detail specification, determined in accordance with test methods specified in 4.5. The final ply of the warp and filling yarns shall have not less than 2.5 turns per inch (25.4 mm) and be twisted together (plied) in one operation.

3.4 Properties of Webbing:

Shall be of natural color and meet the requirements specified in the detail specification, determined in accordance with test methods specified in 4.5.

3.5 Quality:

Webbing, as received by purchaser, shall be clean, evenly woven, and free from foreign materials and from imperfections detrimental to usage of the webbing.

3.5.1 Imperfections: Acceptability of each lot of webbing shall be based on imperfections defined in FED-STD-4 and as specified in Table 1.

3.5.2 Yard-by-Yard (Meter-by-Meter) Examination: The required length of each roll shall be examined on both sides and visual imperfections classified as in Table 1. Imperfections found shall be counted, regardless of their proximity to each other, except where two or more imperfections represent a single local condition of the webbing, in which case only the more serious imperfection shall be counted. A continuous imperfection shall be counted as one imperfection for each warpwise yard (meter), or fraction thereof, in which it occurs. The lot shall be unacceptable if one or more critical imperfections appear in the sample. The lot size shall be expressed in units of 1 linear yard (1 linear meter) each. An approximately equal length shall be examined from each roll selected.

TABLE 1 - Classification of Imperfections

Imperfection	Description	Critical	Minor
Abrasion marks	Resulting in rupture of yarns, or in nap sufficient to obscure the identity of any yarn over 10% of width or 1 inch (25 mm) in length.	X	
Broken or missing end	Two or more regardless of length or a single end over 6 inches (152 mm) in length.	X	
	Single end under 6 inches (152 mm) but over 0.25 inch (6.4 mm).		X
Broken or missing pick	Two or more regardless of extent.	X	
	Note: The filling tie-in or joining shall not be construed as an imperfection of any nature.		
Coarse or light filling bar	Resulting in clearly visible difference in stiffness or thickness of webbing and extending more than 0.25 inch (6.4 mm) in the length direction.	X	
Twist or distortion	Webbing will not lay flat upon application of manual pressure due to twist or distortion.		X
Cut, hole, or tear	Any cut, hole, or tear.	X	