

AEROSPACE MATERIAL SPECIFICATION

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Tape and Webbing, Woven, Nylon

RATIONALE

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

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1. SCOPE:

- 1.1 Form: This specification and its supplementary detail specifications cover two types of nylon tape and three types of nylon webbing.
- 1.2 Application: Primarily for use in the manufacture of flight clothing.
- 1.3 Classification: Tape and webbing shall be classified by breaking strength as shown in the applicable detail specifications.
- 1.4 <u>Safety Hazardous Materials</u>: 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. <u>APPLICABLE DOCUMENTS</u>: The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order.
- 2.1 <u>SAE Publications:</u> Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.
- 2.1.1 Aerospace Material Specifications:

AMS-5610 - Steel Bars and Forgings, Corrosion and Moderate Heat Resistant, 12.5Cr, Low Carbon (SAE 51416, 51416Se), Free Machining

2.2 <u>ASTM Publications:</u> Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM D 123 - Terminology Relating to Textile Materials

- 2.3 <u>U.S. Government Publications</u>: Available from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.
- 2.3.1 Federal Standards:

FED-STD-191 - Textile Test Methods

2.3.2 Military Specifications:

MIL-P-43334 - Packaging of Textile Webbing and Tape

2.3.3 Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by

- 3. TECHNICAL REOUIREMENTS:
- 3.1 <u>Detail Specifications</u>: The requirements for a specific tape or webbing shall consist of all requirements specified herein in addition to requirements specified in the applicable 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:
- 3.2.1 Nylon Yarn: Except for AMS-3778/5, the nylon yarn used in the manufacture of the tape and webbing shall be a bright, high tenacity, light and heat resistant polyamide, prepared from hexamethylene diamine and adipic acid, or its derivatives. It shall have a minimum melting point of 243°C (469°F). The supplier shall certify that the yarn has not been subjected to any type of bleaching process. The yarn used in the manufacture of AMS-3778/5 webbing may be a nylon made from chemicals that will ensure that the product will meet all requirements of AMS-3778/5.
- 3.2.2 Tape and Webbing:
- 3.2.2.1 Color: Shall be Air Force Sage Green No. 1520.
- 3.2.2.1.1 Colorfastness: Tape and webbing shall have a colorfastness rating of "good" to light (at 20 standard fading hours), to crocking, and to perspiration, determined in accordance with Table II. When a sample is designated as standard for certain colorfastness properties, the dyed and finished tape and webbing shall be equal to or better than the standard in those respects when tested as specified. If duplication of a designated colorfastness property exists by reference to an adjective rating and a standard sample, the standard sample shall govern.