SAE The Engineering Society For Advancing Mobility Land Sea Air and Space ®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS 3797/12B

Issued OCT 1983
Revised MAR 1994

Superseding AMS 3797/12A

WEBBING, NYLON, INTEGRAL LOCKING SLOTS
1-1/8 (29) Wide, 12,000 (53,379) Breaking Strength

1. SCOPE:

1.1 Form:

This specification covers one width and one strength of integral locking slot nylon webbing.

1.2 Application:

See AMS 3797.

1.3 Classification:

1-1/8 inch (28.6 mm) wide integral locking slot nylon webbing having 12,000 pounds force (53,379 N) breaking strength.

2. APPLICABLE DOCUMENTS:

See AMS 3797.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification:

The complete requirements for procuring the webbing described herein shall consist of this document and the latest issue of the basic specification, AMS 3797.

3.2 Construction and Properties:

3.2.1 Yarn: Shall be as specified in AMS 3797.

3.2.1.1 Denier and Filament Count: The yarn shall be 840 denier ± 15 and shall consist of 140 filaments ± 10.

3.2.1.2 Ply: Final warp yarn shall be not less than five ply. Final filling yarn shall be not less than five ply.

3.2.1.3 Twist: The final warp and filling yarns shall have not less than 2.5 turns per inch (25.4 mm) twist. The number of single yarns specified in 3.2.1.2 shall be twisted together (plied) in one operation.

3.2.2 Webbing: Shall conform to the following requirements:

3.2.2.1 Weave: Shall be as shown in Figure 1 of the basic specification. The warp ends shall weave four as one except the edges.

3.2.2.2 Color and Finish: The color of the webbing shall be natural and shall not be bleached or delustered in any manner or by any process. No method of treatment, finish, or conditioning shall be used which will change the frictional characteristics of the webbing. The manufacturer shall certify that neither the yarn used nor the finished webbing has been subjected to any kind of bleaching process.

3.2.2.3 Width: Shall be 1.125 inches ± 0.09 (28.6 mm ± 2.3).

3.2.2.4 Thickness: Shall be 0.250 inch ± 0.015 (6.35 mm ± 0.38).

3.2.2.5 Weight: Shall be 3.75 ounces/yard ± 0.15 (116 g/m ± 4).

3.2.2.6 Breaking Strength: Shall be not less than 12,000 pounds force (53,379 N) unaged, and not less than 75% of the unaged value after light resistance and heat resistance testing, using separate specimens for each test.

3.2.2.7 Repeats per Radial Seam Length: Shall be as specified by purchaser, measured under a tension of 120 pounds force ± 4 (534 N ± 18).

3.2.2.8 Slot Length: Shall be 2.00 inches ± 0.06 (50.8 mm ± 1.5).

3.2.2.9 Solid Length (Length Between Slots): Shall be 0.62 inch ± 0.13 (15.7 mm ± 3.3).

3.2.2.10 Thread Count: Total number of warp ends shall be not less than 204. The number of filling picks shall be not less than 13 per inch (25.4 mm).

3.3 Length and Put-Up:

Shall be as specified by purchaser based on multiples of the repeats per radial seam length.

4. QUALITY ASSURANCE PROVISIONS:

See AMS 3797.

5. PREPARATION FOR DELIVERY:

See AMS 3797.