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INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE MATERIAL SPECIFICATION

SAE AMS 3798/8B

Issued OCT 1983
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Reaffirmed AUG 1998

Submitted for recognition as an American National Standard

Superseding AMS 3798/8A

Webbing, Low Modulus Aramid
1-23/32 (44) Wide, 1200 (5338) Breaking Strength
Herringbone Twill

1. SCOPE:

1.1 Form:

This specification covers one width and one breaking strength of low-modulus aramid webbing.

1.2 Application:

See AMS 3798.

1.3 Classification:

1-23/32 inches (44 mm) wide low-modulus aramid webbing having 1200 pounds force (5338 N) breaking strength.

2. APPLICABLE DOCUMENTS:

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 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

See AMS 3798.

QUESTIONS REGARDING THIS DOCUMENT: (724) 772-7154 FAX: (724) 776-0243
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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 3798.

3.2 Construction and Properties:

3.2.1 Yarn: Yarn used in weaving the webbing shall be low-modulus aramid with a carbonization (char) temperature not lower than 355 °C (671 °F).

3.2.1.1 Denier and Filament Count: The yarn shall be 200 denier ± 15 and shall consist of 100 filaments ± 15.

3.2.1.2 Ply: Final warp yarn shall be not less than four ply and filling yarn shall be not less than two ply.

3.2.1.3 Twist: The final ply of yarn shall have not less than 2.5 turns per inch (25.4 mm) twist. The required denier and number of single yarns 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 a two-up, two-down herringbone twill with one reversal at the center of the webbing.

3.2.2.2 Color: Shall be FED-STD-595, Olive Green 106 solution dyed.

3.2.2.3 Width: Shall be 1.72 inches ± 0.06 (43.7 mm ± 1.5), determined in accordance with ASTM D 3774.

3.2.2.4 Thickness: Shall be 0.015 to 0.030 inch (0.38 to 0.76 mm), determined in accordance with ASTM D 1777.

3.2.2.5 Weight: Shall not exceed 0.70 ounces/yard (21.7 g/m), determined in accordance with ASTM D 3776.

3.2.2.6 Breaking Strength: Shall be not less than 1200 pounds force (5338 N) unaged and not less than 85% of the unaged strength after aging, determined in accordance with FED-STD-191, Method 4108.

3.2.2.7 Thread Count: Total warp ends (face and back) shall be not less than 146. Filling picks shall be not less than 34 per inch (25.4 mm).