SAE Aerospace
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AEROSPACE MATERIAL SPECIFICATION

SAE AMS3798/15 REV. C

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Superseding AMS3798/15B

Webbing, Low Modulus Aramid
1 (25) Wide, 2500 (11,121) Breaking Strength
Herringbone Twill

RATIONALE

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

STABILIZED NOTICE

This document has been declared "Stabilized" by SAE AMS P, Polymeric Materials Committee, and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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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 inch (25.4 mm) wide low-modulus aramid webbing having 2500 pounds force (11,121 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.

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 1200 denier ± 15 and shall consist of 100 filaments ± 15.

3.2.1.2 Ply: Final warp yarn shall be not less than two ply; filling yarn shall be one ply or more.

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 1.00 inch ± 0.03 (25.4 mm ± 0.8), determined in accordance with ASTM D 3774.

3.2.2.4 Thickness: Shall be 0.060 to 0.080 inch (1.52 to 2.03 mm), determined in accordance with ASTM D 1777.

3.2.2.5 Weight: Shall not exceed 1.20 ounces/yard (37.2 g/m), determined in accordance with ASTM D 3776.

3.2.2.6 Breaking Strength: Shall be not less than 2500 pounds force (11,121 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 104. Filling picks shall be not less than 14 per inch (25.4 mm).