SAE Aerospace
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AEROSPACE MATERIAL SPECIFICATION

SAE AMS 3799/1B

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Superseding AMS 3799/1A

Webbing, Tubular, Low Modulus Aramid 9/16 (14) Wide, 1400 (6228) Breaking Strength

1. SCOPE:

1.1 Form:

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

1.2 Application:

See AMS 3799.

1.3 Classification:

9/16 inch (14 mm) wide low modulus aramid tubular webbing having 1400 pounds force (6228 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 3799.

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)**
Tel: 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: custsvc@sae.org
SAE WEB ADDRESS: **http://www.sae.org**

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification:

The complete requirements for procuring the tubular webbing described herein shall consist of this document and the latest issue of the basic specification, AMS 3799.

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 ± 10.

3.2.1.2 Ply: The yarn shall be four ply.

3.2.1.3 Twist: The final ply of yarn shall be twisted 2.5 to 2.8 turns per inch (25.4 mm).

3.2.2 Webbing:

3.2.2.1 Weave: Shall be tubular, plain, one up and one down.

3.2.2.2 Color: Shall be FED-STD-595 Sage Green 1565. The color shall be obtained by use of melt spun solution dyed yarn.

3.2.2.3 Width: Shall be 0.56 inch ± 0.06 (14.2 mm ± 1.5).

3.2.2.4 Thickness: Shall not exceed 0.08 inch (2.0 mm).

3.2.2.5 Weight: Shall not exceed 0.65 ounce per linear yard (20.2 g/m).

3.2.2.6 Breaking Strength: Shall be not less than 1400 pounds force (6228 N) unaged and not less than 85% of the unaged strength after aging.

3.2.2.7 Ultimate Elongation: Shall be not less than 12.0%.

3.2.2.8 Thread Count: Warp ends shall be not less than 177. Filling picks shall be not less than 24 per inch (25.4 mm).

3.3 Length of Put-up:

Webbing shall be furnished in rolls containing 425 yards ± 10 (389 m ± 9). Not more than five pieces shall be contained in any one roll.