SAE Aerospace
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AEROSPACE MATERIAL SPECIFICATION

SAE AMS3799/3 | REV. C

Issued 1983-10
Reaffirmed 2006-01
Revised 2013-07

Superseding AMS3799/3B

Webbing, Tubular, Low Modulus Aramid 1 (25) Wide, 4000 (17 793) Breaking Strength

RATIONALE

As a result of the normal 5 year review, this document has been determined to contain basic and stable technology which is not dynamic in nature. Any changes made are editorial in nature.

1. SCOPE

1.1 Form

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

1.2 Application

See AMS3799.

1.3 Classification

1 inch (25 mm) wide low modulus aramid tubular webbing having 4000 pounds force (17 793 N) breaking strength.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

See AMS3799.

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)**
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@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, AMS3799.

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 671 °F (355 °C).

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 eight 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 1.00 inch ± 0.06 (25.4 mm ± 1.5).

3.2.2.4 Thickness

Shall not exceed 0.120 inch (3.05 mm).

3.2.2.5 Weight

Shall not exceed 1.75 ounces per linear yard (54 g/m).

3.2.2.6 Breaking Strength

Shall be not less than 4000 pounds force (17 793 N) unaged and not less than 85% of the unaged strength after aging.