

# AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard



AMS 3798/16B

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Superseding AMS 3798/16A

## Webbing, Low Modulus Aramid 1-1/2 (38) Wide, 1700 (7562) Breaking Strength Special Weave

### 1. SCOPE:

#### 1.1 Form:

This detail specification covers 1-1/2 inch (38.1 mm) wide aramid webbing having 1700 pounds force (7562 N) breaking strength.

#### 1.2 Application:

See AMS 3798.

### 2. APPLICABLE DOCUMENTS:

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 600 filaments ± 15.

##### 3.2.1.2 Ply: Final warp yarn shall be one ply or more and filling yarn shall be one ply or more.

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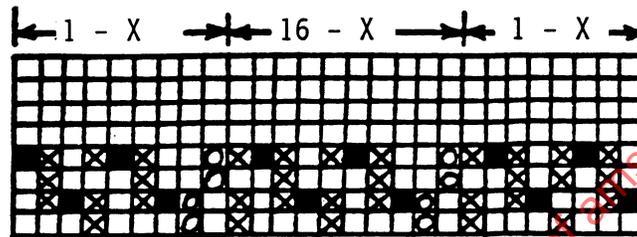
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3.2.1.3 Twist: The final ply of yarn shall have not less than 2.5 turns per inch (25.4 mm) twist. The required denier and number of single yarns shall be twisted together (plied) in one operation.

3.2.2 Webbing: Shall conform to the following requirements:

3.2.2.1 Weave: Shall be as shown in Figure 1.



- Face warp yarn
- ⊗ Back warp yarn
- ⊙ Binder warp yarn

FIGURE 1 - Weave Diagram

3.2.2.2 Color: Shall be FED-STD-595, Green No. 34088 solution dyed.

3.2.2.3 Width: Shall be 1.50 inches  $\pm$  0.06 (38.1 mm  $\pm$  1.5).

3.2.2.4 Thickness: Shall be 0.045 to 0.065 inch (1.14 to 1.65 mm).

3.2.2.5 Weight: Shall not exceed 1.35 ounces/yards (41.9 g/m).

3.2.2.6 Breaking Strength: Shall be not less than 1700 pounds force (7562 N) unaged and not less than 85% of the unaged strength after aging (See 4.1).

3.2.2.7 Thread Count: There shall be not less than 143 warp ends in the face and back, and not less than 34 binder ends, for a total of not less than 177 warp ends. There shall be not less than 47 filling picks per inch (25.4 mm).

3.3 Length and Put-up:

Webbing shall be furnished in rolls containing 90 to 110 yards (82 to 101 m). No roll shall contain more than three pieces and no piece shall be less than 10 yards (9 m) in length.