

# AEROSPACE MATERIAL SPECIFICATION

**SAE** AMS3793/8

REV. B

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Superseding AMS3793/8A

Tape and Webbing, Textile, Para-Aramid  
Intermediate Modulus  
1-3/4 Inches (44 mm), 0.17 to 2.50 Ounces per Yard (5.3 to 77.5 g/m)

## RATIONALE

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

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## 1. SCOPE:

## 1.1 Form:

This specification covers eleven classes of para-aramid tape and webbing of a single width and with varying weights.

## 1.2 Application:

See AMS 3793.

## 1.3 Classification:

Width of 1-3/4 inches  $\pm$  1/16 (44 mm  $\pm$  1.6) and weight classes as shown in Table 1.

TABLE 1 - Weight of Products

| Class | Weight          | Maximum |
|-------|-----------------|---------|
|       | Ounces per Yard | g/m     |
| 1     | 0.17            | 5.3     |
| 2     | 0.35            | 10.9    |
| 3     | 0.45            | 14.0    |
| 4     | 0.54            | 16.7    |
| 5     | 0.60            | 18.6    |
| 6     | 0.80            | 24.8    |
| 7     | 1.00            | 31.0    |
| 8     | 1.20            | 37.2    |
| 9     | 1.75            | 54.3    |
| 11    | 2.40            | 74.4    |
| 13    | 2.50            | 77.5    |

## 2. APPLICABLE DOCUMENTS:

See AMS 3793.

## 3. TECHNICAL REQUIREMENTS:

### 3.1 Basic Specification:

The complete requirements for procuring the tape and webbing described herein shall consist of this document and the latest issue of the basic specification, AMS 3793.

### 3.2 Properties:

Tape and webbing shall conform to the requirements of Table 2 and the following:

3.2.1 Width: Shall be 1-3/4 inches  $\pm$  1/16 (44 mm  $\pm$  1.6).

3.2.2 Weight: Shall be as specified in 1.3 for the class ordered.

## 4. QUALITY ASSURANCE PROVISIONS:

See AMS 3793.

## 5. PREPARATION FOR DELIVERY:

See AMS 3793.

## 6. ACKNOWLEDGMENT:

See AMS 3793.

## 7. REJECTIONS:

See AMS 3793.

## 8. NOTES:

See AMS 3793.

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TABLE 2 - Properties

| Class | Breaking<br>Strength<br>minimum<br>pounds | Breaking<br>Strength<br>minimum<br>N | Warp<br>Denier | Warp<br>Ply | Warp<br>Total<br>Ends,<br>minimum | Fill<br>Denier | Fill<br>Ply | Fill<br>Picks<br>per inch<br>(25.4 mm) | Weave                          |
|-------|-------------------------------------------|--------------------------------------|----------------|-------------|-----------------------------------|----------------|-------------|----------------------------------------|--------------------------------|
| 1     | 1 000                                     | 4 450                                | 200            | 1           | 156                               | 200            | 1           | 34                                     | Plain                          |
| 2     | 1 200                                     | 5 335                                | 200            | 1           | 103                               | 1000           | 1           | 23                                     | Plain                          |
| 3     | 2 500                                     | 11 120                               | 1000           | 1           | 84                                | 1000           | 1           | 16                                     | Plain                          |
| 4     | 3 000                                     | 13 345                               | 1000           | 1           | 96                                | 1000           | 1           | 17                                     | Plain                          |
| 5     | 4 000                                     | 17 790                               | 1000           | 2           | 55                                | 1000           | 1           | 15                                     | Plain                          |
| 6     | 4 500                                     | 20 015                               | 1500           | 2           | 50                                | 1500           | 1           | 17                                     | Plain                          |
| 7     | 6 500                                     | 28 910                               | 1500           | 1           | 140                               | 1500           | 1           | 11                                     | Plain                          |
| 8     | 8 000                                     | 35 585                               | 1500           | 2           | 88                                | 1000           | 1           | 10                                     | Plain                          |
| 9     | 10 000                                    | 44 480                               | 1500           | 2           | 127                               | 1500           | 1           | 12                                     | 22 HBT -<br>Center<br>Reversal |
| 11    | 15 000                                    | 66 720                               | 1500           | 3           | 121                               | 1500           | 1           | 13                                     | Double Plain<br>(See Figure 1) |
| 13    | 20 000                                    | 88 960                               | 1500           | 3           | 137                               | 1500           | 1           | 9                                      | Double Plain<br>(See Figure 1) |

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