

# AEROSPACE MATERIAL SPECIFICATION

Submitted for recognition as an American National Standard

SAE AMS 3777/8

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TAPE, NYLON, NONMELTING, REINFORCING  
2 (50) Wide, 2000 (8895 N) Breaking Strength

## 1. SCOPE:

1.1 Form: This specification covers one width and strength of nylon tape.

1.2 Application: Primarily for use in binding and reinforcing applications in parachute packs.

1.3 Classification: Two in. (50 mm) wide nylon reinforcing tape having a breaking strength of 2000 lb (8895 N).

2. APPLICABLE DOCUMENTS: See AMS 3777.

## 3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the tape described herein shall consist of this document and the latest issue of the basic specification, AMS 3777.

### 3.2 Construction and Properties:

3.2.1 Yarn: Yarn used in weaving the tape shall be nonmelting, aromatic polyamide with a char temperature not lower than 355°C (675°F).

3.2.1.1 Denier/Ply: Shall be as follows:

|              |       |
|--------------|-------|
| Warp yarn    | 200/2 |
| Filling yarn | 200/2 |

3.2.2 Tape: Shall conform to the following:

3.2.2.1 Weave: 2-up and 2-down right hand twill.

REAFFIRMED

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

3.2.2.3 Width: 2.00 in.  $\pm$  0.06 (50.0 mm  $\pm$  1.5).

3.2.2.4 Thickness: 0.040 in. (1.0 mm), max.

3.2.2.5 Weight: 1.00 oz per linear yd (31 g/linear m), max.

3.2.2.6 Breaking Strength: Not less than 2000 lb (8895 N) unaged and not less than 85% of the unaged strength after aging.

3.2.2.7 Thread Count: Warp yarns (face and back) shall be not less than 512. Picks shall be not less than 35 per in. (25.4 mm).

4. QUALITY ASSURANCE PROVISIONS: See AMS 3777.

5. PREPARATION FOR DELIVERY: See AMS 3777.

6. ACKNOWLEDGMENT: See AMS 3777.

7. REJECTIONS: See AMS 3777.

8. NOTES: See AMS 3777.