

# AEROSPACE MATERIAL SPECIFICATION

**SAE** AMS-3778/2

REV  
A

Issued 1986-07-01  
Revised 1990-10-01

Superseding AMS-3778/2

Submitted for recognition as an American National Standard

TAPE, WOVEN, NYLON  
290 Pounds Force (1290 N)

## 1. SCOPE:

- 1.1 Form: This specification covers one type of nylon tape.
- 1.2 Application: Primarily for use as lacing tapes in the manufacture of flight clothing.
- 1.3 Classification: 290 pounds force (1290 N) breaking strength.

## 2. APPLICABLE DOCUMENTS: See AMS-3778.

## 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-3778.
- 3.2 Construction and Properties: Shall conform to the requirements of Table I and the following:
  - 3.2.1 Yarn:
    - 3.2.1.1 Denier and Filament Count: Shall be 210 denier, 34 filaments.
    - 3.2.1.2 Twist: Shall be than 2.5 turns per inch (25.4 mm).
  - 3.2.2 Tape:
    - 3.2.2.1 Weave: Shall be as shown in Figure 1.

SAE Technical Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

3.2.3 Length: Tape shall be furnished on spools, each containing 90 - 110 yards (82 - 100 m). No spool shall contain more than three pieces and no piece shall be less than 10 yards (9 m) in length.

4. QUALITY ASSURANCE PROVISIONS: See AMS-3778.

5. PREPARATION FOR DELIVERY: See AMS-3778.

6. ACKNOWLEDGMENT: See AMS-3778.

7. REJECTIONS: See AMS-3778.

8. NOTES: See AMS-3778.

TABLE I

Properties and Requirements

| Property                          | Requirement                                 |
|-----------------------------------|---|
| Thickness, maximum                | 0.030 inch (0.76 mm)                        |
| Width                             | 7/16 inch $\pm$ 1/32<br>(11.1 mm $\pm$ 0.8) |
| Weight, minimum                   | 0.09 ounce per yard<br>(2.8 g/m)            |
| Breaking Strength, minimum        | 290 pounds force (1290 N)                   |
| Ends in warp, minimum             |   |
| Total count                       | 98  |
| Face and back                     | 88  |
| Binder                            | 10  |
| Stuffer                           | --  |
| Picks per inch (25.4 mm), minimum | 72  |
| Ply of yarns                      |   |
| Warp                              | 1   |
| Binder                            | 1   |
| Stuffer                           | -   |
| Filling                           | 1   |