AEROSPACE MATERIAL SPECIFICATION

AMS3778/3	REV. B

Issued 1986-07
Revised 1990-10
Stabilized 2015-04

Superseding AMS3778/3A

Webbing, Woven, Nylon
400 Pounds Force (1779 N)

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 one type of nylon webbing.

1.2 Application: Primarily for use as helmet front tiedown strap for partial pressure flight suit assemblies.

1.3 Classification: 400 pounds force (1779 N) breaking strength.

2. APPLICABLE DOCUMENTS: See AMS-3778.

3. TECHNICAL REQUIREMENTS:

3.1 Basic Specification: The complete requirements for procuring the webbing 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:

3.2.1.2.1 Warp: The single yarn shall have not less than 10 turns of S-twist per inch (25.4 mm). The final ply twist shall have not less than 7.5 turns of Z-twist per inch (25.4 mm).

3.2.1.2.2 Filling: The single yarn shall have not less than 8.5 turns of S-twist per inch (25.4 mm). The 3-ply semifinal twist shall have not less than 6 turns of Z-twist per inch (25.4 mm). The 3-ply final twist shall have not less than 2.5 turns of S-twist per inch (25.4 mm).

3.2.2 Webbing:

3.2.2.1 Weave: Shall be as shown in Figure 1.

3.2.3 Length: Webbing shall be furnished on rolls, each containing 45 to 55 yards (41 to 50 m). No roll 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 1
Properties and Requirements

Property	Requirement
Thickness, maximum	0.060 inch (1.52 mm)
Width	3/4 inch ± 1/16 (19.0 mm ± 1.6)
Weight, maximum	0.50 ounce per yard (15.5 g/m)
Breaking Strength, minimum	400 pounds force (1779 N)
End in warp, minimum	
Total count	88
Face and back	88
Binder	--
Stuffer	--
Pick per inch (25.4 mm), minimum	48
Ply of yarns	
Warp, min	2
Binder	--
Stuffer	--
Filling	3/3