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Superseding AS26780

Tie Down, Cargo, Aircraft, Nylon Web Net

RATIONALE

AS26780 was returned to military custody as MIL-T-26780C at their request. Accordingly, it is hereby cancelled as regards SAE.

CANCELLATION NOTICE

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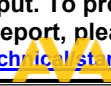
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NOTICE

This document has been taken directly from U.S. Military Specification MIL-T-26780C, Amendment 1, Notice 1 and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards. The initial release of this document is intended to replace MIL-T-26780C, Amendment 1, Notice 1. Any part numbers established by the original specification remain unchanged.

The original Military Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, and (b) the use of the existing government specification or standard format.

Under Department of Defense policies and procedures, any qualification requirements and associated qualified products lists are mandatory for DOD contracts. Any requirement relating to qualified products lists (QPL's) has not been adopted by SAE and is not part of this SAE technical document.

1. SCOPE:

1.1 Scope:

This specification covers two types of aircraft cargo tie downs, each having a capacity of 10,000 pounds.

1.2 Classification:

The tiedowns shall be of the following types as specified (see 6.2).

Type MA-2, 15 by 15 feet

Type MA-3, 20 by 20 feet

1.3 Part number:

Specification part number for items described in this document will be formulated as shown in Section 6.4.

2. APPLICABLE DOCUMENTS:

2.1 Government documents:

- 2.1.1 Specification and standards: Unless otherwise specified (see 6.2), the following specifications and standards of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation, form a part of this specification to the extent specified herein.

SPECIFICATIONS

FEDERAL

V-T-295	Thread, Nylon
PPP-B-601	Boxes, Wood, Cleated-Plywood
PPP-B-636	Box, Shipping, Fiberboard
PPP-T-45	Tape, Gummed, Paper, Reinforced and Plain, for Sealing and Securing

MILITARY

MIL-P-116	Preservation, Methods of
DOD-D-1000	Drawing, Engineering and Associated List
MIL-W-4088	Webbing, Textile, Woven Nylon
MIL-W-27265	Webbing, Textile, Woven Nylon, Impregnated

2.1.1 (Continued):

STANDARDS

MILITARY

MIL-STD-129	Marking For Shipment And Storage
MIL-STD-130	Identification Marking Of US Military Property
MIL-STD-143	Standards And Specifications, Order Of Precedence For The Selection Of
MIL-STD-810	Environmental Test Methods
MIL-STD-831	Test Reports, Preparation Of
MIL-STD-849	Inspection Requirements, Definitions And Classification Requirements, Definitions And Classification Of Defects For Parachutes
MIL-STD-889	Dissimilar Metals
MIL-STD-1186	Cushioning, Anchoring, Bracing, Blocking, And Waterproofing With Appropriate Test Methods

(Copies of specifications and standards required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

3. REQUIREMENTS:

3.1 First article testing:

The tie downs furnished under this specification shall be subjected to first article tests (see 4.4.1).

3.2 Components:

The tie down shall consist of nylon webbing and hardware. The hardware shall consist of reefing rings and hooks, fixed attachment hooks, and adjustable attachment hooks having an adjusting, a tensioning, and a releasing mechanism.

3.3 Selection of specifications and standards:

Specifications and standards for necessary commodities and services not specified herein shall be selected in accordance with MIL-STD-143 except as specified in 3.3.1.

3.3.1 Commercial parts: Commercial parts having suitable properties may be used where, on the date of invitation for bids, there are no suitable standard parts. In any case, commercial utility parts, such as snaps, rings, hooks, and rivets, having suitable properties may be used provided:

- They can be replaced by the AN or MS standard parts without alteration.
- The corresponding standard part numbers are referenced in the parts list and, if practical, on the contractor's drawings.

3.4 Materials:

- 3.4.1 Fungus proof materials: Materials that are nutrients for fungi shall not be used where it is practical to avoid them. Where used, they shall be treated with a fungicidal agent acceptable to the procuring activity.
- 3.4.2 Metals: Metals shall be of the corrosion resistant type or suitably treated to resist corrosion due to salt spray or atmospheric conditions that may be encountered in storage or normal service.
 - 3.4.2.1 Dissimilar metals: Unless suitably protected against electrolytic corrosion, dissimilar metals shall not be used in intimate contact with each other. Dissimilar metals are defined in MIL-STD-889.
 - 3.4.2.2 Reclaimed materials: The use of reclaimed materials shall be encouraged to the maximum extent possible.

3.5 Design and construction:

The tie down shall be designed and constructed so that no parts will work loose in service. It shall be built to withstand the strains, jars, vibrations, and other conditions incident to shipping, storage, installation, and service. The tie down shall be constructed essentially in accordance with Figure 1.

- 3.5.1 Operation: Attachment hooks and operating mechanisms shall be so designed and constructed that they can be easily operated in confined areas and under extreme temperature conditions by personnel wearing heavy gloves. Webbing shall not interfere with the operation and locking of the tensioning lever.
- 3.5.2 Stowage: The tie down shall be designed to fold into a compact unit to occupy the least possible space when stowed. Stowage of the tie down shall be possible for one person to accomplish in approximately 2 minutes.

3.6 Performance:

- 3.6.1 Proof load: The 3,600 pound webbing and hardware shall withstand a proof load of 1,500 pounds applied for 30 seconds without evidence of damage to the webbing, sewing, and metal parts; permanent deformation of the metal parts; or slippage of the webbing through the adjustable attachment hook. The 6,500 pound webbing and hardware shall withstand a proof load of 2,600 pounds applied for 30 seconds without evidence of damage to the webbing, sewing, and metal parts; permanent deformation of the metal parts; or slippage of the webbing through the adjustable attachment hook.