

MIL-B-83787(USAF)

31 MAY 1972

## MILITARY SPECIFICATION

BELTS, AIRCRAFT SAFETY, LAP, TROOP, TYPES MD-1 AND MD-2

## 1. SCOPE

1.1 This specification covers two aircraft lap safety belts designated Types MD-1 and MD-2.

## 2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of the specification to the extent specified herein.

## SPECIFICATIONS

## Federal

PPP-B-601  
 PPP-B-636  
 PPP-B-676

Boxes, Wood Cleated - Plywood  
 Box, Fiberboard  
 Boxes, Set Up

## Military

MIL-P-116  
 MIL-L-10547

Preservation, Methods Of  
 Liners, Case, And Sheet, Overwrap;  
 Water-Vaporproof Or Waterproof,  
 Flexible  
 Labels, Garment (Woven, Rayon)

MIL-L-15040

## STANDARDS

## Military

MIL-STD-105  
 MIL-STD-129  
 MIL-STD-130

Sampling Procedures And Tables For  
 Inspection By Attributes  
 Marking For Shipment And Storage  
 Identification Marking Of US Military  
 Property

## DRAWINGS

## Air Force

54H19650  
 54H19651

Belt - Aircraft Safety, Lap  
 Belt - Aircraft Safety Lap, Type MD-2,  
 Assembly Of

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(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION, INC.

National Motor Freight Classification

(Application for copies should be addressed to American Trucking Association, ATTN: Tariff Order Section, 1616 P Street, NW, Washington DC 20036.)

UNIFORM CLASSIFICATION COMMITTEE

Uniform Freight Classification Rules

(Application for copies should be addressed to the Uniform Classification Committee, Room 202, Union Station, 516 W. Jackson Boulevard, Chicago IL 60606.)

### 3. REQUIREMENTS

3.1 General. The requirements specified on Drawings No. 54H19650 and 54H19651 shall form a part of this specification. When drawing requirements conflict with this specification, the requirements of this specification shall govern.

3.2 Strength. Each troop lap belt shall be capable of withstanding a static load of 2,500 pounds without weakening of the webbing, or stitching, slippage of the webbing through the adjusting hardware, or deformation of the metal fittings.

3.3 Marking. Each half of the belt shall be marked by means of a sewed label located as shown on Drawings 54H19650 or 54H19651. These labels shall be in accordance with MIL-L-15040, Type I, size 1, except that the lettering shall consist of white letters on a black background. Lettering to read in the direction of the warp of the label. The information appearing on the label shall be in accordance with MIL-STD-130, and shall read as follows:

Belt, Aircraft Safety, Lap Troop  
Type MD-1 or MD-2  
Specification No. MIL-B-83787(USAF)  
Stock No.  
Contract or Order No.  
Date of Manufacture  
Manufacturer's Name or Trademark

3.4 Workmanship. The belt, including all parts and accessories, shall be constructed and finished in a thoroughly workmanlike manner. Particular attention shall be given to freedom of parts from burrs and sharp edges.

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#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Quality conformance inspection shall consist of:

- a. Individual tests
- b. Sampling plans and tests

4.2.1 Individual tests. Each lap safety belt shall be subjected to the following tests:

4.2.1.1 Examination of product. Each belt shall be examined to determine conformance with this specification with respect to material, workmanship, and markings.

4.2.1.2 Proof load. Each belt shall be assembled in a testing machine by attaching the end metal fittings to one movable and one stationary head, with the quick release latch assembly closed. A proof load of 2500 pounds shall be applied. There shall be no evidence of weakening of the webbing or stitching, slipping of the webbing through the metal adjusters or deformation of any metal fittings in the belt assembly.

4.2.2 Periodic sampling tests.

4.2.2.1 Lot. A lot shall consist of safety belts manufactured under essentially the same conditions and submitted for inspection at substantially the same time.

4.2.2.2 Ultimate load test. Sampling for the ultimate load test shall be in accordance with Level S4 of MIL-STD-105, AQL 0.40. Each sample belt shall be assembled in the testing machine (as described in 4.2.1.2) and subjected to a static load of 3250 pounds. Any evidence of weakening of the webbing or stitching, slippage of webbing through the adjusting hardware, or deformation of the metal fittings shall be cause for rejection. Belts and components thereof subjected to the ultimate load test shall be destroyed.

#### 5. PREPARATION FOR DELIVERY

5.1 Preservation and packaging. Preservation and packaging shall be level A or C, as specified (see 6.2).

5.1.1 Level A. Each belt shall be packaged Method III, in accordance with MIL-P-116, in a snug-fitting unit container conforming to PPP-B-676.

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5.1.2 Level C. Belts shall be packaged to afford adequate protection against deterioration and physical damage during shipment from the supply source to the the first receiving activity. The supplier may use his standard practice when it meets these requirements.

5.2 Packing. Packing shall be level A, B or C as specified (see 6.2).

5.2.1 Level A. Belts packaged as specified in 5.1.1 shall be packed in exterior overseas type shipping containers conforming to PPP-B-636 or PPP-B-601. As far as practicable, exterior containers shall be of uniform shape and size, be of minimum cube and tare consistent with the protection required, and contain identical quantities. The gross weight of each shipping container shall not exceed the limitation of the container specification. Containers shall be closed and strapped in accordance with the applicable container specification or appendix thereto. Containers conforming to PPP-B-601 shall be provided with a case liner conforming to MIL-L-10547 and sealed in accordance with appendix thereto.

5.2.2 Level B. Belts packaged as specified in 5.1.1 shall be packed in domestic type shipping containers conforming to PPP-B-636 or PPP-B-601. Shipping containers shall be of minimum cube and tare consistent with the protection required. As far as practical, shipping containers shall be of uniform shape and size and contain identical quantities. The gross weight of each shipping container shall not exceed the limitation of the container specification. Containers shall be closed and strapped in accordance with the applicable container specification or appendix thereto. When fiberboard containers are used, such containers shall meet the special requirements table of PPP-B-636, as applicable.

5.2.3 Level C. Belts packaged as specified in 5.1 shall be packed in a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rate for such supplies. Containers shall be in accordance with Uniform Freight Classification Rules or National Motor Freight Classification Rules as applicable.

5.3 Marking of shipments. Interior packages and exterior shipping containers shall be marked in accordance with MIL-STD-129.

## 6. NOTES

6.1 Use. The Type MD-1 and MD-2 safety belt covered by this specification is intended for use to secure personnel in their aircraft seats.

6.2 Ordering data. Procurement documents should specify:

- a. Title, number, and date of this specification.
- b. Type of belt required.
- c. Applicable level of preservation, packaging, and packing.

Custodian:  
Air Force - 82

Review Activity:  
Air Force - 82

Preparing Activity:  
Air Force - 82  
Project No. 1680-F260

## SPECIFICATION ANALYSIS SHEET

Form Approved  
Budget Bureau No. 22-R255

**INSTRUCTIONS:** This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.

SPECIFICATION

ORGANIZATION

CITY AND STATE

CONTRACT NUMBER

MATERIAL PROCURED UNDER A

☐ DIRECT GOVERNMENT CONTRACT☐ SUBCONTRACT

1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?

A. GIVE PARAGRAPH NUMBER AND WORDING.

B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES

2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID

3. IS THE SPECIFICATION RESTRICTIVE?

☐ YES☐ NO (If "yes", in what way?)

4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)

SUBMITTED BY (Printed or typed name and activity - Optional)

DATE

DD FORM 1426  
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.