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MILITARY STANDARD
VERIFICATION TESTING OF PARACHUTE TEXTILE MATERIALS



MIL-STD-1525A(USAF)

DEPARTMENT OF DEFENSE
WASHINGTON, D.C. 20301

Verification Testing of Parachute Textile Materials MIL-STD-1525(USAF)

1. This Military Standard is approved for use by the Department of the Air Force.
2. Recommended corrections, additions, or deletions should be addressed to San Antonio Air Logistics Center, MMEOP, Kelly AFB, Texas 78241.

MIL-STD-1525A(USAF)

C O N T E N T S

Paragraph		Page
1.	SCOPE	1
2.	REFERENCED DOCUMENTS (NOT APPLICABLE)	1
3.	DEFINITIONS (NOT APPLICABLE)	1
4.	GENERAL REQUIREMENTS	1
4.1	RESPONSIBILITY	1
4.2	APPLICABILITY	1
5.	DETAIL REQUIREMENTS	2
5.1	MATERIAL	2
5.2	NOTICE TO GOVERNMENT QUALITY ASSURANCE REPRESENTATIVE	2
5.3	GOVERNMENT VERIFICATION SAMPLES	2
5.4	ACCEPTANCE CRITERIA	3
5.5	LOT NUMBERING	3
5.6	VERIFICATION TESTING	3
6.	NOTES (NOT APPLICABLE)	3

MIL-STD-1525A(USAF)

VERIFICATION TESTING OF PARACHUTE TEXTILE MATERIALS

1. Scope and purpose. This standard establishes the verification tests for parachute materials (subcontracted supplies) used in the fabrication of parachutes. These tests are for the purpose of confirming subcontractor test reports, determining conformance of material to contract specifications and to provide data for the computation of reliability for these materials.
- * 2. Reference documents. (NOT APPLICABLE)
3. Definitions. (NOT APPLICABLE)
4. General requirements.
 - 4.1 Responsibility. The testing, as set forth herein, will be conducted by the Government unless otherwise specified in the contract. Government verification testing does not in any way alter requirements of material specifications and does not relieve the contractor of the requirement to furnish proof of material conformance pursuant to established contractual requirements.
 - 4.2 Applicability. This standard is applicable to all contracts for the following types of parachutes:
 - a. Personnel
 - b. Cargo
 - c. Heavy Duty Deceleration and Recovery
 - d. Aircraft Deceleration
5. Detailed requirements.
 - * 5.1 Material. Types of textile materials comprising parachute components listed below are subject to the verification tests of this standard. The detailed construction and physical property requirements of material are set forth in Section 3 of the specification which is included as part of the contract. Quality assurance provisions in Section 4 of the material specification provide the test methods for the verification tests required under this standard. Procedure set forth by this document does not in any way alter the requirements of the material specification and does not relieve the contractor of the requirement to furnish proof of material conformance as set forth therein.
 - a. Canopy Material - Cloth, Ribbon, Tape, Webbing, and Thread
 - b. Pack/Deployment Bag - Cloth Duck, Webbing, and Reinforcing Tape

MIL-STD-1525A(USAF)

- c. Suspension Lines - Webbing and Braid
- d. Harness/Slings - Webbing, Cloth, and Tape
- e. Risers/Straps - Webbing, Tape, and Braid

The end item specification for the specific parachute assembly or component will identify materials to be tested.

- * 5.2 Notice to Government Quality Assurance Representative (QAR) to draw samples. The contractor will notify the Government QAR each time a shipment or lot of components is received so that the Government QAR may draw verification or standby samples prior to the use of these components in production. Verification testing for materials shall be performed by the facility designated by the procuring activity. Two copies of contractor test reports covering test samples will, for comparative analysis, be furnished to the Government QAR by the contractor. The QAR will forward original to the facility designated by the procuring activity to accomplish verification testing and retain a copy for QAR files. Each verification test sample shall consist of the following:
 - a. Five yards of each type, color and/or class of cloth.
 - b. Forty yards of each type, color and/or class of tape, webbing, ribbon and braid.
 - c. Half pound cone, tube or spool of each type, color and/or class of thread from each lot.
- * 5.3 Government verification samples. The Government reserves the right to select, (or have the contractor select) use, and retain samples without cost to the Government for the purpose of conducting inspection to verify the results of the contractor's examination or testing. Samples for tests required by the material specification shall be taken by the Government QAR at random within the lot of material on which a test report was furnished the contractor or to the Government. An inspection lot shall consist of all or any part of the material from one finisher's roll. The lot size shall be determined as the number of units of product (shipper's roll, batch, spool, yards or pounds et cetera) in the lot. A finisher's roll is the roll formed when lengths of material are seamed or tied together for the purpose of finishing. Each finisher's roll shall be designated as a lot. Shipper's rolls, batch, spools, yards or pounds, et cetera, are those units of product created after finishing when the finisher's roll is divided for the purpose of handling and delivery. Each shipper's roll, batch, spool, yardage or pounds shall be tagged with the number or code of the finisher's roll of which it is a part. Verification testing shall be required on each lot regardless of size. One sampling from a lot of material to be used to fabricate parachutes on more than one contract is authorized provided the samples are so identified.
- 5.4 Acceptance criteria. Material from lots, in which test data show any deviation from the requirements set forth in material specification, shall be unacceptable for use in the fabrication of parachutes.

MIL-STD-1525A(USAF)

5.5 Lot numbers. The lot numbers used in the manufacture of end items will be furnished by the contractor when the Government is performing final inspection. The use of lots that have not been approved by the Government may result in rejection of the end item.

- * 5.6 Verification testing. When verification testing of textile material samples are to be performed by the Government, the samples along with a copy of the contractor's certified material test reports will be furnished by the QAR to the facility designated by the procuring activity. Each sample shall be identified as follows:

- a. Contractor's name and location.
- b. Contract number(s) and/or purchase order number.
- c. Manufacturer's name and lot number of the material.
- d. Material specification number, type and/or class number.
- e. Total quantity (yards) of material in the lot represented.
- f. The number of end items to be produced from the lot.

6. Notes (not applicable).

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Preparing Activity:
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SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 22-R255
<p>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.</p>		
SPECIFICATION		
ORGANIZATION		
CITY AND STATE	CONTRACT NUMBER	
MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> 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? <input type="checkbox"/> YES <input type="checkbox"/> 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.