

MIL-M-6002A
30 March 1982
SUPERSEDING
MIL-M-6002
13 March 1950

MILITARY SPECIFICATION

MARKING; STANDARD HOSE, AIRCRAFT

This specification is approved for use by all Departments and Agencies of the Department of Defense.

* 1. SCOPE

- * 1.1 Scope. This specification covers one type and grade of marking suitable for the identification of rubber and synthetic rubber hose.

* 2. APPLICABLE DOCUMENTS

* 2.1 Government documents.

- * 2.1.1 Specifications 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

MILITARY

- * MIL-H-5606 Hydrafulic Fluid, Petroleum Base, Aircraft, Missile, and Ordnance

STANDARDS

FEDERAL

- * FED-STD-601 Rubber, Sampling and Testing

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

- * 2.1.2 Order of precedence. In the event of a conflict between the text of this specification and the reference cited herein, the text of this specification shall take precedence.

3. REQUIREMENTS

3.1 Materials. Material for marking hose is optional but shall be uniform in quantity and free from defects. Material which is not specifically mentioned herein shall be entirely suitable for the purpose intended.

- * Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: HQ AFLC CASO/LODS, Federal Center, Battle Creek, MI 49016 by using the self addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

3.2 Methods of marking.

3.2.1 Date of manufacture. When specified by the applicable hose specification the hose shall be dated to show the quarter of year (1,2,3, or 4), Q for quarter, and the year shown by the last two numerals of the year. (Example - Hose manufactured on 7 December 1941 would be dated 4Q41.

3.2.2 Code stripe. The hose shall have a stripe or stripes on the outer cover parallel to the longitudinal axis of the hose, of the proper color or colors specified by the applicable hose specification.

3.2.3 Additional markings. Additional required markings shall be in accordance with one or more of the following, as specified in the applicable hose specification:

3.2.3.1 Size Designation. Size designation shall be expressed by the word "size," followed by the applicable size number provided a table showing these sizes is included in the applicable hose specification. Otherwise the size shall be shown as a fraction, a number, or a number and a fraction. Fractions shall have the same numerator and denominator that is used in the applicable hose specification.

* 3.2.3.2 Manufacturer identification. The manufacturer of hose shall be identified by the use of code letters, names or trademarks as indicated in the applicable hose specification. All marking required shall form the indicator stripe and shall be repeated continuously.

3.2.3.3 Type marking. Certain types of hose will be marked with code letters to identify the type of hose. In these cases the code letter or letters will be given in the hose specification.

3.3 Quality of markings.

* 3.3.1 Legibility. All marking, including any numbers or letters shall be of such size and clarity that they can be read without mistake from a distance of 3 feet when tested as described herein.

3.3.2 Permanency. All marking shall meet the legibility test after the permanency test specified in Section 4 has been conducted for the number of strokes shown in Table I.

TABLE I

Type of Cover on Hose	Number of Strokes
Cloth wrapped	3
Impregnated Braid	15

3.4 Repair. Defective marking may be touched-up or repaired by any method satisfactory to the manufacturer provided the final marking submitted for acceptance will meet the above specified legibility and permanency requirements.

3.5 Workmanship All details of workmanship shall be in accordance with highgrade manufacturing practice.

*4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor 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 Examination of Product. All hose marked in accordance with this specification shall be inspected by the manufacturer to insure uniformity and legibility of marking. Not less than 50 percent of each series of markings shall be legible.

4.3 Sampling tests. One length of hose of each type specified in Table I, of sufficient length to include one complete set of the markings required, shall be selected at random from each marking machine's daily production. This length of hose shall be selected after the manufacturer's inspection and repair and shall be used for legibility and permanency tests. These samples shall be furnished by the contractor without additional cost to the Procuring Service.

4.3.1 Legibility. The sample shall be covered with white cardboard so that only one word, number group, or code marking is exposed at a time. A person with normal vision or vision corrected to 20/20 Snellen shall stand at a distance of 3 feet from the sample and with the samples illuminated with from 20- to 60-foot candles of light shall be able to read all letters, numerals, and marking without error. Failure to correctly read at least 50 percent of all identification marks shall be cause for reinspection and repair or remarking of the entire day's production from the particular marking machine involved and repetition of this test until the sample satisfactorily passes test requirements.

*4.3.2 Permanency. The sample used for legibility tests shall have a rigid mandrel inserted inside the bore and shall be clamped to prevent turning on the mandrel. The hose and mandrel shall be clamped in a vise or other suitable clamping device so that the hose is held in a horizontal position with the marking on top. A strip of standard uncoated 10-ounce duck four inches wide by approximately 2 feet long, with a 4-pound weight tied to each end shall be completely immersed in Petroleum Base Hydraulic Oil conforming to Specification MIL-H-5606. The duck shall be removed from the oil and hung over the hose. Additional weight shall be added to one of the 4-pound weights until the other weight has been raised 10 inches. This is considered one stroke as referenced in Table I. The additional weight which may be applied by pulling downward by hand shall be alternated between 4-pound weights until the required number of strokes have been completed. One piece of duck shall be used for not more than 100 strokes and shall be dipped in oil once for each test regardless of the number of strokes involved. The hose shall then be subjected to the legibility test and failure during this test shall be considered cause for rejection of the hose.

4.4 Rejection and retest. Hose rejected for improper or unsatisfactory marking may be resubmitted for test provided the unsatisfactory marks are cleaned off and the hose remarked.

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* 5. PACKAGING

5.1 There are no packaging, packing and marking requirements applicable to this specification.

6. NOTES

6.1 Intended use. The marking described herein is intended for use on various types of aircraft hose.

6.2 Changes from previous issue. The margins of this specification are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Air Force - 99

Navy - AS

Preparing activity:

Air Force 99

Project No. 4720-0601

Review activities:

Air Force - 11

DLA - CS

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