

MIL-H-24580(SH)
 AMENDMENT 2
 21 May 1985
 SUPERSEDING
 AMENDMENT 1
 15 May 1981

MILITARY SPECIFICATION

HOSE ASSEMBLIES, SYNTHETIC RUBBER, NONCOLLAPSIBLE, FIRE FIGHTING

This amendment forms a part of Military Specification MIL-H-24580(SH) dated 25 September 1978 and is approved for use by the Naval Sea Systems Command, Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 1

* 2.1: Delete and substitute:

"2.1 Government documents.

"2.1.1 Specifications and standards. Unless otherwise specified 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-P-775 | - Packaging of Hose, Hose Assemblies; Rubber, Plastic, Fabric, or Metal (including tubing), and Fittings; Nozzles and Strainers. |
| MIL-S-23190 | - Straps, Clamps and Mounting Hardware, Plastic for Cable Harness Tying and Support. |

STANDARDS

FEDERAL

- | | |
|----------------|--|
| FED-STD-H28/10 | - Screw-Thread Standards for Federal Services, Section 10 American National Hose Coupling and Fire Hose Coupling Threads." |
| FED-STD-162 | - Hose, Rubber, Visual Inspection Guide for. |

FSC 4210

MIL-11-24580(SH)
AMENDMENT 2

STANDARDS - Continued

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection
by Attributes."

* Insert "Beneficial comments" at bottom of page:

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Sea Systems Command, SEA 5523, Department of the Navy, Washington, DC 20362-5101 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

PAGES 1 and 2

2.2: Add the following ASTM publications:

- "B 16 - Rod Bar, and Shapes for Use in Screw Machines Free-Cutting Brass. (DoD adopted)
- B 36 - Brass Plate, Sheet, Strip, and Rolled Bar. (DoD adopted)
- B 121 - Leaded Brass Plate, Sheet, Strip, and Rolled Bar. (DoD adopted)
- B 135 - Tube Seamless Brass. (DoD adopted)
- B 584 - Casting, Sand, Copper Alloy for General Applications. (DoD adopted)
- D 380 - Rubber Hose Methods of Testing. (DoD adopted)

3.1.2: Delete and substitute:

* 3.1.2 Couplings. A male coupling shall be attached to one end of the hose and a female swivel coupling to the other end. Coupling shall be brass and shall be of the reusable compression grip type consisting of a nipple and solid socket sleeve and grip. Threads shall conform to FED-STD-H28/10 and shall be as follows:

- 1-1/2 inch - 11-1/2 NPSH
- 3/4 inch - 11-1/2 NH

3.1.2.1 Casting brass. When cast, coupling parts shall be made from copper alloy as specified in ASTM B 584.

3.1.2.2 Brass rod and bar. Coupling parts made from bar stock shall conform to copper alloy 360 as specified in ASTM B 16.

3.1.2.3 Brass plate, sheet, and strip. Coupling parts made from sheet stock shall conform to copper alloy 260 as specified in ASTM B 36 or copper alloy 353 as specified in ASTM B 121.

3.1.2.4 Brass tubing. Coupling parts made from tubing shall conform to copper alloy 230 or 260 as specified in ASTM B 135.

MIL-H-24580(SH)
AMENDMENT 2

3.2, line 2: Delete "two" and substitute "a minimum of 2" and after "braided" add "or spiraled".

3.2.2, line 2: After "50 feet" add "+ 6 inches"

3.3.1, line 2: After "hardening", add "in excess of 15 durometer points".

Table I: Delete and substitute:

"TABLE I. Pressure measurements.

Working pressure, minimum	Proof pressure, minimum	Burst pressure minimum
(lb/in ² , gauge)	(lb/in ² , gauge)	(lb/in ² , gauge)
250	500	1000

PAGE 3

3.3.3: Delete and substitute:

"3.3.3 Elongation and twist. Elongation and twist, when measured at the working pressures shown in table I, shall be as follows:

- (a) Elongation/contraction. The elongation or contraction of hose shall not exceed plus or minus 6 percent when tested as specified in 4.5.4.
- (b) Twist. Twist, if any, shall be in the direction that would tighten the coupling connection at reel end and in any event shall not exceed 1/2 degree per foot of hose length."

Add the following paragraph:

"3.6 First article. When specified (see 6.2.1), the contractor shall furnish sample unit(s) for first article inspection and approval (see 4.2, and 6.3)."

PAGE 4

4.3.3: Delete and substitute:

"4.3.3 Sampling for quality conformance (group A). Hose sample shall be selected at random from bulk hose or coupled hose for the group A tests shown in table III. For the elongation and twist test, the samples shall be selected in accordance with MIL-STD-105 for the single sampling plan for normal inspection. The general inspection level shall be II with an AQL of 2.5 percent. For the burst test, one 3-foot section shall be cut from the bulk hose or from one sample coupled hose."

"4.4.1: Add "If the rejection number exceeds the acceptance number (for the elongation and twist test) or if the sample 3-foot section fails the burst test, the lot represented by the samples shall be rejected."

MIL-II-24580(II)
AMENDMENT 2

PAGE 5

4.5.5: Delete and substitute:

"4.5.5 Burst. The sample 3-foot section of hose selected in accordance with 4.3.3 shall be subjected to the burst test to determine conformance with table I. The test shall be conducted in accordance with ASTM D 380."

PAGES 5 and 6

6.2.1: Add item (e):

"(e) When a first article is required for inspection and approval (see 3.6, 4.2, and 6.3)".

LAST PAGE

* DD Form 1426, Standardization Document Improvement Proposal: Delete address and substitute:

"COMMANDER.
NAVAL SEA SYSTEMS COMMAND (SEA 5523)
DEPARTMENT OF THE NAVY
WASHINGTON, DC 20362-5101"

NOTE: The margins of this amendment is marked with an asterisk to indicate where a change from the previous amendment was made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in this notation. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notation and relationship to the last previous amendment.

Preparing activity:
Navy - SH
(Project 4210-N197)