

INCH-POUND

MIL-H-81581A
AMENDMENT 3
16 October 2000
SUPERSEDING
AMENDMENT 2
18 July 1990

MILITARY SPECIFICATION

HOSE ASSEMBLIES, BREATHING OXYGEN AND
AIR, GENERAL SPECIFICATION FOR

INACTIVE FOR NEW DESIGN AFTER 13 AUGUST 1997

This amendment forms a part of Military Specification MIL-H-81581A, dated 1 June 1982, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

2.1.1: Delete and substitute:

“2.1.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).”

Under SPECIFICATIONS, FEDERAL delete: “QQ-W-423 Wire, Steel, Corrosion-Resisting.”

Bottom of page: Delete “FSC 1660” and substitute “FSC 4720.”

PAGE 2

Under STANDARDS, MILITARY, delete “MIL-STD-143 Standards and Specifications, Order of Precedence, for the selection of” and add: “MIL-STD-970 Standards and Specifications, Order of Preference for the selection of.”

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Delete parenthetical source statement and substitute:

“(Unless otherwise indicated, copies of the above specifications and standards are available from the Standardization Documents Order Desk, Bldg 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)”

PAGE 3

2.2: Delete and substitute:

“2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issues of documents not listed in the DoDISS are the issues of the documents cited in the solicitation (see 6.2).”

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- ASTM-A313 - Chromium-Nickel Stainless and Heat Resisting Steel Spring Wire, Standard Specification for. (DoD adopted)
- ASTM-D1149 - Rubber Deterioration-Surface Ozone Cracking in a Chamber, Standard Test Method for. (DoD adopted)

(Application for copies should be addressed to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

*3.2: Delete.

3.3, line 4: Delete “MIL-STD-143” and substitute “MIL-STD-970.”

PAGE 4

3.6.1.1, line 2 and 3: Delete “QQ-W-423, form 1, condition B, composition 302” and substitute “ASTM-A313-81, type 302, class 1.”

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3.7.6.2, line 4: Delete “2.50 Neplometric” and substitute “5.0 Nephelometric.”

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4.1.1: Add the following:

“4.1.1 Responsibility for compliance. All items must meet all requirements of section 3 and 5. The inspection set forth in this specification shall become a part of the contractor’s overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.”

PAGE 8

*4.2.a: Delete.

PAGE 9

*4.3 Delete

*4.3.1 Delete.

PAGE 10

*4.3.2 Delete.

PAGE 13

4.7.7.2: Delete sentences 3, 4, and 5 and substitute the following: “Each hose end shall be capped and the hose placed into a water filled ultrasonic cleaner operating at 20,000 to 90,000 cycles for a period of five minutes. After this exposure, the water/aerosol solution shall be poured from the hose into a clean glass cylinder and allowed to stabilize for four minutes \pm 15 seconds. The sample shall then be tested for turbidity by means of a Hach turbidimeter or equivalent calibrated using a 5.0 NTU distilled water/formazin solution.”

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* 4.7.14.3: Add the following:

“4.7.14.3 Procedure III. This test is to be performed at room temperature. The coupling nut end of the hose assembly shall be attached to the output shaft of a gear reduction motor which shall rotate at two revolutions per minute (RPM). A 50 \pm 1 pound weight shall be attached to the

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opposite end of the same hose assembly. The motor shall be mounted at a 40 degree angle from the horizontal. The hose shall be rotated in this manner for 3,000 cycles. Every 1,000 cycles the hose shall be removed from the test fixture and inspected for conformance to the requirements specified in 3.7.13. Upon successful completion of the above tests, the hoses shall be subjected to and pass the tests specified in 4.7.5; and after an elapsed period of 24 hours, the tests specified in 4.7.8. The above tests shall be repeated for each hose of the assembly.”

4.7.15.1.1, line 4: Delete “ASTM-D1149-782” and substitute “ASTM-D1149-78A.”

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6.2.1: Add the following as 6.2.1c:

“Issue of DoDDIS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).”

*6.2.1e: Delete.

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*6.3: Delete and substitute:

“6.3 First article. When a first article is required, the item will be tested and should be a preproduction sample. The contracting officer should include specific instructions in all acquisition instruments regarding arrangements for examinations, tests, and approval of the first article. The activity responsible for first article inspection is Commander, Naval Air Systems Command, Code 4.6.2.2, 48110 Shaw Road, Patuxent River, MD 20670.”

*6.3.1: Delete.

*6.4: Delete.

The margins of this amendment are marked with asterisks to indicate where changes from the previous amendment were made. This was done as 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 amendment.

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Custodians:

Army – AV
Navy – AS
Air Force – 11

Preparing activity:

Navy – AS

(Project No. 4720-0275)

Review activity:

Air Force – 99