MIL-H-26626C <u>050071997</u> SUPERSEDING MIL-H-26626B 19 APRIL 1976

MILITARY SPECIFICATION

HOSE ASSEMBLY, TETRAFLUOROETHYLENE, OXYGEN

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

1. Scope

1.1 <u>Scope</u>. This specification covers tetrafluoroethylene-lined, wire braid-covered oxygen with flared tube style and fittings.

1.2 <u>Reference identification number</u>. The reference identification number is formatted per applicable MS sheets (see 6.2).

2.1 Government documents.

2.1.1 <u>Specifications and standards</u>. The following specifications and standards form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents shall be those listed in the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation.

SPECIFICATIONS

MILITARY

MIL-P-116	Preservation, Methods Of
MIL-S-8879	Screw Threads, Controlled Radius Root With
	Increased Minor Diameter, General
	Specification For
MIL-0-27210	Oxygen, Aviator's Breathing, Liquid And Gas
MIL-G-27617	Grease, Aircraft And Instrument, Fuel And
	Oxidizer Resistant

STANDARDS

FEDERAL

FED-STD-209	Clean Room	And Worl	t Station	Requirements
	Controlled	Environ	nent	

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Oklahoma City Air Logistics Center/MMEDO, Tinker AFB, OK 73145-5990 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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MILITARY

DOD-STD-100	Engineering Drawing Practices
MIL-STD-105	Sampling Procedures And Tables For
	Inspection By Attributes
MIL-STD-129	Marking For Shipment And Storage
MIL-STD-130	Identification Marking Of US Military
	Property
MIL-STD-143	Standards And Specification Order Of
	Precedence For The Selection Of
MIL-STD-889	Dissimilar Metals
MIL-STD-2073/1A	DOD Material Procedures For Development And
	Application Of Packaging Requirements
Air Force-Navy Aeronautical	

AN818

MS STANDARDS

MS21344	Fittings-Installation Of Flared Tube, Straight Threaded Connectors, Design Standard For
MS24548 MS33656	Hose Assembly, Tetrafluoroethylene, Oxygen Fitting End, Standard Dimensions For Flared Tube Connection And Gasket Seal

Nut, Coupling

(Copies of specifications, standards, and other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein (except for associated detail specifications, specification sheets, AN or MS standards), the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 <u>MS sheets</u>. The individual item requirements shall be as specified herein and in accordance with the applicable MS sheet. In the event of any conflict between the requirements of this specification and the MS sheet, the latter shall govern.

3.2 <u>Qualification</u>. Hoses furnished under this specification shall be products which are authorized by the qualifying activity for listing on the applicable qualified products list (QPL) at the time set for opening of bids (see 4.3 and 6.4).

3.2.1 <u>Selection of specifications and standards</u>. Specifications and standards for the necessary commodities and services not specified herein shall be selected in accordance with MIL-STD-143.

3.3 <u>Materials</u>.

3.3.1 <u>Normetallic materials</u>. Any nonmetallic material that is easily deteriorated or otherwise affected adversely by continued use with oxygen shall not be used.

3.3.2 <u>Metals</u>. Metals shall be of the corrosion resistant or treated to resist corrosion caused by fuels, salt spray, or atmospheric conditions as may be encountered in storage or normal service. Metals shall be protected against such corrosion that will in no way prevent compliance with performance requirements of this specification. The use of protective treatment that will crack, chip, peel, or scale with age or extremes of atmospheric conditions shall be avoided.

3.3.3 <u>Dissimilar metals</u>. Dissimilar metals as defined by MIL-STD-889 shall not be used in intimate contact with each other unless suitably protected against electrolytic corrosion.

3.3.4. <u>Recycled and reclaimed material</u>. Recycled and reclaimed materials shall be encouraged to the maximum extent possible provided all requirements of this specification are met and the material does not jeopardize the intended end use of the item.

3.3.5 <u>Material conformance</u>. Materials shall conform to applicable specifications as specified herein. Materials that are not covered by specifications, or that are not specifically described herein, shall be of the best quality, of the lightest practicable weight, and suitable for the purpose intended.

3.3.6 <u>End fittings</u>. Hose shall not be more than 12 months old from the cure date to the delivery date of hose to any Government service or to any airframe or accessory manufacturer.

3.4 <u>Design and construction</u>. The assembly shall be designed for an operating pressure of not less than 500 pounds per square inch gage (psig) and shall be in accordance with MS24548. The hose assembly shall consist of a seamless tetrafluoroethylene inner tube, or equivalent, reinforced with wire braid, or braids of corrosion-resistant steel and with AN818 end fittings attached. Prior to assembling, all parts shall be free of oil, grease, and other foreign matter. No lubricants, other than water, shall be used in assembling unless specifically approved by the contracting activity.

3.4.1 <u>Inner tube</u>. The inner tube shall be of a seamless construction and uniform gage. It shall have a smooth bore and shall be free from pitting or projections on the inner surface of the tube. If compounding of tetrafluoroethylene and other ingredients is used in the formulation of the inner tube material, both the added ingredients and the final compound shall be nontoxic and odor free in the presence of oxygen over the temperature range of -297° to $+260^{\circ}$ F.

3.4.2 <u>Reinforcement</u>. The reinforcement shall consist of wire braid, or braids, of corrosion-resistant steel of sufficient strength and corrosion resistance to meet the requirements of this specification.

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3.4.3 <u>End Fittings</u>. The end fitting shall be designed to connect to a flared tube end fitting conforming to MS33656. The end fittings shall be coupling nuts which are in conformance with the AN818 envelope. The end fitting shall be attached to the hose by a method that is not intended to permit removal.

3.4.4 <u>Threads</u>. All screw threads shall be in accordance with MIL-S-8879. A ten (10) percent increase to the MIL-S-8879 maximum thread tolerance is permissible for the coupling nut thread after proof testing, i.e., the maximum pitch diameter may be exceeded by ten percent of the pitch diameter tolerance.

3.4.5 <u>Plugs</u>. End openings in the hose assemblies shall be closed with suitable threaded plugs to prevent dust and foreign matter from entering the hose during shipping and storage.

3.4.6 <u>Toxic products and formulations</u>. The material shall have no adverse effect on the health of personnel when used for its intended purpose. Questions pertinent to this effect shall be referred by the contracting activity to the appropriate departmental medical service who will act as advisor to the contracting agency.

3.4.7 <u>Lubricants</u>. Lubricants qualified to MIL-G-27617 (Krytox 240 type) may be used sparingly on the sealing surface and threads of mating MS33656 fitting ends to prevent leakage when fittings are torqued to the minimum values. The quantity of lubricant used shall not exceed that required to generate a thin film. All visible evidence of the lubricant shall be removed from the hose fittings prior to packaging and shipment.

3.5 <u>Environmental conditions</u>. Environmental conditions shall be as defined in each test condition and start at local ambient temperature and barometric pressure. This information shall be recorded at the time of inspection and shall be available for computation of test data to normal temperature and pressure (NTP) conditions (see 4.5.2).

3.6 Performance.

3.6.1 <u>Proof pressure</u>. The hose assembly shall withstand a gas proof pressure of 1,000 psig without leakage around the fittings or through the walls of the hose (see 4.6.2.1)

3.6.2 <u>Burst pressure</u>. The hose assembly shall not burst, leak, blow off, nor the end fittings loosen at a pressure less than 2,200 psig (see 4.7.2.2).

3.6.3 <u>Tensile strength</u>. The hose assembly shall withstand a load of at least 300 pounds without failure (see 4.7.2.3).

3.6.4 <u>High temperature</u>. The hose assembly shall pass the test specified in 4.7.2.4.

3.6.5 Low temperature. The hose assembly shall pass the test specified in 4.7.2.5.

3.6.6 <u>Low temperature bending</u>. The hose assembly shall not crack when bent 180 degrees around a mandrel after being exposed to a temperature of -297° $\pm 10^{\circ}$ F, for not less than 15 minutes (see 4.7.2.6).

3.6.7 Low temperature vibration. The hose shall not leak nor be damaged as a result of subjection to vibration for at least 3 hours at approximately $-297^{\circ}F$, with a double amplitude of 0.060 inch and the frequency cycling between 10 and 50 cycles per second (Hz) (see 4.7.2.7).

3.6.8 <u>Odor</u>. The hose assembly, when tested as specified in 4.7.2.8, shall be rejected if an objectionable odor is detected by two or more of the personnel checking the hose (see 4.7.2.8).

3.6.9 <u>Contamination</u>. The hose assemblies shall not be contaminated by foreign objects or material residue when tested as specified (see 4.7.2.9).

3.7 <u>Interchangeability</u>. All parts having the same manufacturer's part number shall be functinally and dimensionally interchangeable. The drawing number requirements of DOD-STD-100 shall govern changes in the manufacturer's part numbers.

3.8 <u>Identification of product</u>. Equipment, assemblies, and parts shall be marked for identification in accordance with MIL-STD-130, except the National Stock Number shall be omitted from the nameplate. The special marking, specified in 3.8.1 shall be added.

3.8.1 <u>Hose assembly</u>. The hose assembly shall be identified by a permanently attached metal tag marked with the information listed below. This tag shall not be removed upon installation of the hose assembly in an aircraft. The tag shall be fastened to the hose in such manner as to prevent movement of the tag.

HOSE ASSEMBLY, TETRAFLUOROETHYLENE, OXYGEN MIL-H-26626B MS part No. Manufacturer's name or trademark US

3.9 <u>Workmanship</u>. All parts of the hose assembly shall be manufactured in accordance with the highest grade commerical practice covering this class of work. All details of workmanship shall be of the highest quality in order to insure proper functioning of the equipment under conditions of high altitude usage. The finished assemblies (both internally and externally) shall be clean and free from oils, greases, dirt, and all other foreign materials or defects that might affect appearance or functionability.

4. QUALITY ASSURANCE PROVISIONS

4.1 <u>Responsibility for inspection</u>. Unless otherwise specified in the contract or purchases 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.

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4.1.1 <u>Responsibility for compliance</u>. All items must meet all requirements of Sections 3 and 5. The inspections 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 this 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.

4.2 <u>Classification of inspection</u>. The inspection of the hose shall be classified as follows:

a. Qualification inspection (see 4.4).

b. Quality conformance inspection (see 4.5).

4.3 <u>Inspection conditions</u>. Unless otherwise specified, all inspections shall be performed in accordance with the test conditions specified in each test paragraph.

4.4 <u>Qualification inspection</u>. Qualification inspection shall consist of subjecting the qualification samples to all the examinations and tests specified herein (see 4.6).

4.4.1 <u>Qualification inspection report</u>. A qualification inspection report shall be prepared and three copies forward with the samples specified in 4.3.2 if qualification is required (see 6.4).

4.4.2 <u>Qualification samples</u>. Qualification samples shall consist of eight hose assemblies. The samples shall be identified with the manufacturer's part number and any additional information required by the letter authorizing qualification and forwarded to the activity responsible for qualification or as directed by the letter of authorization (see 6.4).

4.4.3 <u>Retention of qualification</u>. To retain qualification, the contractor shall forward a report at 2 year intervals, certifying that the item(s) is still being manufactured under the same conditions as originally qualified. The qualifying activity shall establish the initial reporting date.

4.4.4 <u>Failures</u>. Failures in excess of those allowed by table I shall be cause for refusal to grant qualification.

4.4.5 <u>Noncompliance</u>. If a sample fails to pass any inspection, the manufacturer shall notify the qualifying activity and the cognizant inspection activity of such failure and take corrective action on the materials or processes, or both, as warranted, and on all units of products which can be corrected and which were manufactured with essentially the same materials and processes, and which are considered subject to the same failure. Acceptance and shipment of the product shall be discontinued until corrective action, acceptable to the qualifying activity has been taken. After the corrective action has been taken, the inspection shall be repeated on additional sample units. Inspection may be reinstituted; however final acceptance and shipment shall be withheld until the inspection has shown that the corrective action was successful.

In the event of failure after reinspection information concerning the failure shall be furnished to the cognizant inspection activity and the qualifying activity.

4.5 <u>Quality conformance inspection</u>. Quality conformance inspection shall consist of the examinations and tests specified in table I.

4.5.1 <u>Sampling</u>.

4.5.1.1 Inspection lot applications.

4.5.1.1.1 <u>Hose</u>. An inspection lot size shall be expressed in units of hose assemblies. The sample unit shall be one hose assembly of a specific MS dash number. The inspection lot shall consist of hose assemblies manufactured under the same conditions and from the same materials and components.

4.5.1.1.2 <u>Preparation for delivery</u>. An inspection lot size shall be expressed in units of one fully prepared shipping container, containing hose assemblies of one size, fully prepared for delivery from essentially the same materials and components. The sample unit shall be one shipping container, containing hose assemblies of one size, fully prepared for delivery with the exception that it need not be sealed.

4.5.1.2 <u>Sampling and acceptance criteria</u>. Sample size and acceptance criteria shall be as specified in table I. Sampling and acceptance shall be in accordance with MIL-STD-105.

4.6. <u>Oxygen</u>. Unless otherwise specified, all pressurization of the hose during test shall be accomplished with oxygen conforming to MIL-O-27210.

4.6.1 <u>Temperature and pressure</u>. Unless otherwise specified, tests shall be performed at local ambient temperature and barometric pressure. The temperature and barometric pressure shall be recorded at the time of inspection. The information shall be available for computation of test data, where required, to normal temperature and pressure (NTP) conditions. NTP conditions are 29.92 inches of mercury and 70°F. Test instruments shall be calibrated or adjusted according to their required usage in performing individual tests.

4.6.2 <u>Torque</u>. The torque applied to the coupling nuts of the hose assemblies in connecting assemblies for a test, shall be in accordance with MS21344.

4.6.3 <u>Leakage detection</u>. Unless otherwise specified, leakage tests shall be performed by submersion of the hose assembly in water. One bubble per 30 seconds from a localized area shall constitute leakage after approximately 5 minutes of stablization.

4.7 Inspection methods.

4.7.1 Examinations.

4.7.1.1 <u>Visual</u>. The hose shall be examined for existence of defects listed in table II and any other nonconformance to this specification and MS24548.

4.7.1.2 <u>Dimensions</u>. The hose shall be checked to determine that all dimensions are as specified on MS24548.

4.7.1.3 Examination of preparation for delivery. Sample shipping containers specified in 4.4.1.1.2 shall be examined to determine if preservation, packaging, packing, and marking conform to the level specified in the contract or order and the existence of defects listed in table III.

4.7.2 <u>Tests</u>.

4.7.2.1 <u>Proof pressure</u>. With one end plugged the hose assembly shall be pressurized, to 1,000 psig and checked for leakage. There shall be no leakage from the hose or from the fitting. Leakage shall be determined under the conditions specified in 4.5.4 (see 3.6.1).

4.7.2.2 <u>Burst pressure</u>. With one end plugged, the hose assembly shall be hydrostatically tested to 2,200 psig. As a result of this test, there shall be no evidence of leakage from the hose, nor of loosening of the coupling nuts (see 3.6.2).

Inspection	Inspection method para. No.	Sample size	Acceptance Criteria
Examination of hose	4.6.1.1	Every hose	Reject all hoses with any critical defect.
			An acceptable quality level 2.5 defects per one hundred units for minor defects.
Examination of dimensions	4.6.1.2	Inspection 1/ level S-2	Acceptance number zero. Rejection number one.
Examination of preparation for delivery	4.6.1.3	Inspection 1/ level S-2	Acceptance quality level of 4.0 percent defective.
Proof pressure	4.6.2.1	Every hose	Reject all defective hose.
Low temperature bending	4.6.2.6	Inspection 1/ level S-1	Acceptance number zero. Rejection number one.
Odor	4.7.2.8	Inspection 1/ level S-1	Acceptance number zero. Rejection number one.

TABLE I. Examinations, tests, sample size, and acceptance criteria.

1/ The sample size shall be cased only on the applicable sample size code letter corresponding to the specified inspection level of MIL-STD-105.

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4.7.2.3 <u>Tensile strength</u>. The hose assembly shall be attached by the coupling nuts to the jaws of a tensile testing machine and pulled at rate of approximately l inch per minute until failure occurs. There shall be no visible failure of the hose or of the coupling nut connections at a force of at least 300 pounds (see 3.6.3).

4.7.2.4 <u>High temperature</u>. Eight hose assemblies shall be coupled together end-to-end with a pressure gage connected to one end and a valve connected to the other end. The coupled assemblies shall then be filled with gas to 500 psig at room temperature and the valve closed. The coupled assemblies shall then be exposed to a temperature of $+260^{\circ}F + 5^{\circ}F$ for 48 hours. After this exposure, the coupled assembly shall be allowed to cool to the original filling temperture. The pressure remaining in the coupled assemblies shall not be less than 100 psig. The coupled assembles shall then be subjected to the proof pressure test (see 3.6.1).

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4.7.2.5 Low temperature. Eight hose assemblies shall coupled together end-to-end with a pressure gage connected to one end and a valve connected to the other end. The coupled assemblies shall then be filled with gas to 500 psig at room temperature and the valve closed. The coupled assemblies shall then be exposed to a temperature of $-65^{\circ} \pm 2^{\circ}$ F for 48 hours. After this exposure, the coupled assemblies shall be allowed to warm to the original filling temperature. The pressure remaining in the coupled assemblies shall be not less than 100 psig. At the conclusion of this test, a flow of liquid oxygen shall be passed through the coupled assemblies (after removal of the pressure gage) at a pressure of 25 ±5 psig for a period of not less than 5 minutes. Under this condition, there shall be no appearance of leakage from the hose or from the fittings. Upon conclusion of the above tests, the coupled assemblies shall be subjected to the test specified in 4.6.2.7 (see 3.6.5).

4.7.2.6 Low temperature bending. The hose assembly shall be subjected to a temperature of $-297^{\circ} \pm 10^{\circ}$ F, for not less than 15 minutes. After this exposure, the hose and a mandrel having a diameter as defined below shall be subjected to a temperature of $-65^{\circ} \pm 2^{\circ}$ F for not less than 30 minutes. After this exposure and within 30 seconds after removing the hose and mandrel from the chamber, the hose shall be bent 180 defrees around the mandrel. The hose shall then be bent 180 degrees in the opposite direction around the mandrel and returned to a straight position. This cycle of bending the hose twice around the mandrel and returning to a straight position shall be repeated for a total of 5 cycles allowing 4 seconds per cycle. After this test, the hose shall pass the requirements specified in 3.6.6.

<u>Hose dash number</u>	Diameter of mandrel (inches)
-5	6.000
-6	8.000
-8	9.250

The hose assembly shall be vibrated for at least 3 hours. Liquid oxygen shall be maintained in the hose assembly during the entire test. After this test, the hose assembly shall be subjected to and pass the test specified in 4.6.2.1 (see 3.6.7).

4.7.2.8 <u>Odor</u>. One end of the hose assembly shall be attached to a mask or other suitable device and the other end of the hose assembly shall be open to the atmosphere. Six subjects shall smell the inner section of the hose in a manner that will prevent exterior odors from influencing the test. The hose shall pass the requirements specified in 3.6.8.

C	ritical	Minor	
1.	Material imperfections, foreign matter embedded	201.	Marking missing, insufficient, incorrect, illegible, or not permanent.
2.	Design or construction not as specified.	202.	Openings not plugged.
3.	Broken thread of reinforcement braid.		
4.	Imperfect screw thread.		
5.	Flaked or chipped plating or finish.		
6.	Does not swivel freely.		
7.	Hose assembly is not clean.		
8.	Any component missing, malformed, fractured, or otherwise damaged.		
9.	Any component loose or otherwise not securely retained.		
10.	Incorrect assembling or improper positioning of components		
11.	Faulty workmanship or other irregularities.		·

TABLE	II.	Classification	of	defects	for	visual	examinatio	n.
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4.7.2.9 <u>Contamination</u>. The hose assemblies shall be connected to an outlet which is capable of providing 100 cubic feet per minute of air. The hose assmbly outlet shall be monitored by any method that will detect particles as small as 0.02 inch maximum dimension. The test shall be performed for one (1) hour on each size hose assembly being produced. Particles of any type, as described, coming from the hose assembly shall be cause for rejection.

Item	Defect
Exterior and interior marking	Missing incorrect, incomplete, illegible, or improper size, location, sequence or method of application; markings not the same on the interior and exterior containers.
Packaging and packing	Any nonconforming component; any materials component missing, damaged, or otherwise defective.
Workmanship	Inadequate application of the components such as incomplete closures of the unit package, intermediate package, container flaps, loose strappling, etc.; bulging or distortion of the containers.
Exterior and interior weight of contents	Number per container is more or less than required; gross or net weight exceeds the requirements.

TABLE III. List of defects for preparation for delivery.

4.7.2.10 <u>Inspection of packaging</u>. Unless otherwise specified in the purchase order or contract, the supplier is responsibile for the performance of all inspections required as listed in Table III, MIL-P-116 for the method of preservation, being accomplished.

4.8 <u>Toxicological formulations</u>. The contractor shall have the toxicological formulations and associated information available for review by the contracting activity to evaluate the safety of the material for the proposed use.

5. PACKAGING

5.1 <u>Preservation</u>. Preservation shall be level A IAW MIL-STD-2073/1A. Preservation shall be accomplished IAW Federal Standard 209.

5.1.1 Level A. Unless otherwise specified, hose asssemblies, tetrafluorethylene, oxygen, shall be preserved Method IA8 of Specification MIL-P-116.

5.1.1.1 <u>Cleaning and drying</u>. Each hose assembly shall be cleaned and dried for oxygen service in accordance with industry practice according to the applicable processes of MIL-P-116. Petroleum and other flammable solvents shall not be used.

5.1.1.2 Preservation applicable. No preservation shall be applied.

5.1.1.3 Unit packaging. Unless otherwise specified by the contracting activity, hose assemblies shall individually comply with the applicable requirements of that specification.

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

5.2.1 Level A. Unless otherwise specified by the contracting activity, hose assemblies packaged as specified in 5.1 shall be packed in shipping containers applicable to level A requirements of MIL-STD-2073/1A. Insofar as practical, exterior shipping containers shall be of uniform shape, size, minimum tare and cube consistent with the protection required.

5.2.2 Level B. Unless otherwise specified by the contracting activity, hose assemblies shall be packed in shipping containers conforming to PPP-B-636, Style RSC, Type CF, Class WR, Grade V3C. Other requirements as specified in 5.2.1 are applicable.

5.2.3 Level C. Unless otherwise specified by the contracting activity, hose assemblies shall be packed in shipping containers conforming to PPP-B-636, Style RSC, Type CF, Class Dom Grade 275. Other requirements as specified in 5.2.1 are applicable.

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5.3 <u>Marking</u>. In addition to any other markings required by the contract or order (see 6.2), interior and exterior containers shall be marked in accordance with MIL-STD-129.

5.3.1 <u>Precautionary marking</u>. The followng precautionary marking shall appear on each package:

LIFE SUPPORT ITEM ALL OIL, GREASE, SHOP RESIDUE, OR OTHER CONTAMINANTS HAVE BEEN REMOVED.

DO NOT OPEN UNTIL READY FOR USE

6. NOTES

6.1 Intended use. The hose assembly covered by this specification is intended to contain flows of gaseous and liquid oxygen in liquid oxygen converter systems.

6.2 Ordering data. Procurement documents should specify:

- a. Title, number, and date of this specification.
- b. MS part No. (MS24548 and applicable dash number).
- c. Levels of packaging and packing.
- d. Data requirements (see 6.3).

6.3 <u>Qualification</u>. With respect to products requiring qualification, awards will be made only for such products as have, prior to the time set for the opening of bids, been tested and approved for inclusion in the applicable Qualified Products List, whether or not such products have actually been so listed by that date. The attention of the suppliers is called to this requirement and manufacturers are urges to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or orders for the products covered that they may be eligible to be awarded contracts or orders for the products covered by this specification.

The activity responsible for the Qualified Products List is Oklahoma City ALC/MMEDO, Tinker AFB, Oklahoma 73145-5990, and information pertaining to qualification of products may be obtained from that activity.

6.4 Subject term (key word) listing.

Breathing Oxygen Hose

6.5 <u>Changes from previous issue</u>. Aserisk or vertical lines are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

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Preparing Activity: AIR FORCE - 71

Project No. 4720-0754

Reviewer activities: AIR FORCE - 11