

NOT MEASUREMENT
SENSITIVE

MIL-D-3344D
21 November 1990
SUPERSEDING
MIL-D-3344C
5 August 1975

MILITARY SPECIFICATION

DIVING EQUIPMENT SET: TWO PERSON;
100 FOOT DEPTH, PACKAGING OF

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

1. SCOPE

1.1 Scope. This specification covers the requirements for preservation, packing, and marking of a two person, 100 foot depth diving equipment set (SC 4220-97-CL-E02).

2. APPLICABLE DOCUMENTS

2.1 Government documents.

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).

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: USA Belvoir Research, Development, and Engineering Center, ATTN: SIRBE-TSE, Fort Belvoir, VA 22060-5606 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC PACK

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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SPECIFICATIONS

FEDERAL

- PPP-B-601 - Boxes, Wood, Cleated-Plywood.
- PPP-B-621 - Boxes, Wood, Nailed and Lock-Corner.
- PPP-B-636 - Boxes, Shipping, Fiberboard.

MILITARY

- MIL-P-116 - Preservation, Method of.

STANDARDS

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-1186 - Cushioning, Anchoring, Bracing, Blocking, and Waterproofing; with Appropriate Test Methods.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

2.2 Non-Government publications. The following document(s) 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)

- D 3953 - Strapping, Flat Steel and Seals.
- D 4675 - Selection and Use of Flat Strapping Materials.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia PA 19103.)

NATIONAL MOTOR FREIGHT TRAFFIC ASSOCIATION (NMFTA)

National Motor Freight Classification

(Application for copies should be addressed to the American Trucking Association, ATIN: Traffic Order Section, 2200 Mill Road, Alexandria, VA 22314.)

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UNIFORM CLASSIFICATION COMMITTEE (UCC)

Uniform Freight Classification

(Application for copies should be addressed to the Uniform Classification Committee, ATTN: Tariff Publishing Officer, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

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

3. REQUIREMENTS

3.1 Material. Material shall be as specified herein and in the applicable specifications and standards. Materials not specified shall be selected by the contractor and shall be subject to all provisions of this specification. Materials shall be free of defects.

3.2 First article. Unless otherwise specified (see 6.2), a sample shall be subjected to first article pack inspection (see 6.3) in accordance with 4.3.

3.3 Preservation. Preservation shall be level A or C as specified (see 6.2).

3.3.1 Level A.

3.3.1.1 Methods of preservation. Methods of preservation indicated by symbols herein shall correspond to the applicable symbols listed in MIL-P-116.

3.3.1.2 Manifold adapters, hose nipples, brass check valves, diving apparatus valves, globe valves, diving dress clamps, rubber tubing, and diving knife. Each of these items shall be preserved in accordance with method IC-1.

3.3.1.3 Men's socks, undershirts, drawers, divers' gloves, and glove inserts. These items, of like size and description, shall be preserved in the quantities required for each set in accordance with method IC-1.

3.3.1.4 Divers' belts, diving harnesses, rubber hose assemblies (50 foot), rope, gymnasium shoes, divers' shoes, divers' trousers, masks, and divers' dresses. Each diver's belt, each diving harness, each rubber hose assembly, each piece of rope, each diver's mask, and each diver's dress shall be preserved in accordance with method III. Each pair of diver's shoes, each pair of gymnasium shoes, and each pair of diver's trousers shall be preserved in accordance with method III. The containers shall conform to PPP-B-636, W5c. The boxes shall be waterproof sealed with tape as specified for method V of the appendix to the box specification.

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3.3.1.5 Consolidation. The items preserved in accordance with method IC-1 shall be consolidated together as preserved, in quantities not to exceed the weight limitation of the boxes, in boxes conforming to PPP-B-636, W6c or W5c. Cushioning shall be provided to prevent damage to the method IC-1 packages and their contents. The boxes shall be closed as specified in 3.3.1.4.

3.3.2 Level C. The components of the set shall be preserved to afford protection against corrosion, deterioration and damage during shipment from the contractor to the initial destination. Consolidation shall be as specified for level A except the boxes shall be domestic class.

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

3.4.1 Level A. The components of the set, preserved as specified in 3.3, shall be packed together in a box conforming to PPP-B-601, overseas type, grade B, or PPP-B-621, class 2. The contents shall be immobilized within the container in accordance with the requirements of MIL-STD-1186. Strapping shall conform to ASTM D 3953, type 1 or 2, zinc-coated, size as applicable and ASTM D 4675.

3.4.2 Level B. The components of the set, preserved as specified in 3.3 shall be packed as specified in 3.4.1, except that the box shall be domestic type. Strapping shall be either finish A or B.

3.4.3 Level C. The components of the set, preserved as specified in 3.3 shall be packed to assure carrier acceptance and safe delivery to destination at the lowest ratings of the carrier in compliance with Uniform Freight Classification rules or National Motor Freight Classification rules.

3.5 Marking. In addition to any special markings as specified by the contract or purchase order (see 6.2), marking shall be in accordance with MIL-STD-129.

3.6 Workmanship. Workmanship shall be such so as to provide maximum protection to the set components, by application of the requirements specified herein, to prevent corrosion, deterioration and mechanical or physical damage to the components during handling, shipment, and storage.

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 (examinations and tests) 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 ensure supplies and services conform to prescribed requirements.

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4.1.1 Responsibility for compliance. All items shall meet all requirements of section 3. 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 ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.

4.1.2 Material inspection. The contractor is responsible for insuring that materials are manufactured, examined, and tested in accordance with referenced specifications and standards, as applicable.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.3).
- b. Quality conformance inspection (see 4.4).

4.3 First article pack inspection.

4.3.1 Examination. The first article pack shall be examined for the defects listed in 4.4.4. Presence of one or more defects shall be cause for rejection of the first article pack.

4.4 Quality conformance inspection.

4.4.1 Inspection stages. Inspection shall be in three stages as follows:

- a. The first stage shall include inspection of procedures, methods, materials, containers, and marking prior to placing the preserved items into consolidated containers.
- b. The second stage shall include inspection of closure and marking of consolidated containers, and the arrangement, blocking and bracing of containers in the shipping containers.
- c. The third stage shall include inspection of the closed, strapped, and marked shipping containers prepared for shipment.

4.4.2 Unit of product. For the purpose of inspection, all items prepared for any applicable inspection stage that will comprise a complete pack of any one level, shall be considered a unit of product.

4.4.3 Sampling. Sampling for examination shall be in accordance with MIL-STD-105. Samples shall be selected in accordance with MIL-STD-105, tables I and IIa.

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4.4.4 Examination. Samples selected in accordance with 4.4.3 shall be examined for the defects marked "X" for the applicable level in table I. One or more defects shall be cause for rejection.

TABLE I. Classification of defects.

No.	Defect	Level		
		A	B	C
101.	Materials, methods, and containers not as specified. Each incorrect material, method, and container shall constitute one defect (see 3.1, 3.3, and 3.4).	X	X	-
102.	Item not preserved in the quantities specified (see 3.3.1.2, 3.3.1.3, and 3.3.1.4).	X	-	-
103.	Fiberboard boxes not waterproof sealed with tape as specified (see 3.3.1.4 and 3.3.1.5).	X	-	-
104.	Consolidation not as specified (see 3.3.1.5 and 3.3.2).	X	X	X
105.	Contents not immobilized as specified (see 3.4.1 and 3.4.2).	X	X	-
106.	Strapping not as specified (see 3.4.1).	X	-	-
107.	Equipment not packed as specified for level C (see 3.4.3).	-	-	X
108.	Marking illegible, incomplete, or incorrect (see 3.5).	X	X	X
109.	Workmanship not as specified (see 3.6).	X	X	X

5. PACKAGING

(This section not applicable to this specification.)

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. This specification is intended to be used for direct reference in contracts or purchase orders for the preservation, packing, and marking of a two person, 100 foot depth diving equipment set (NSN 4220-00-269-7906).

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of the specification.
- b. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1 and 2.2).
- c. Time frame required for submission of the first article pack (see 3.2).
- d. Level of preservation and packing required (see 3.3 and 3.4).
- e. Any special marking (see 5.3).

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6.3 First article pack. Any changes or deviations of production packs from the approved first article pack will be subject to the approval of the contracting officer. Approval of the preproduction pack will not relieve the contractor of his obligation to preserve, pack, and mark the set components in accordance with this specification.

6.4 Subject term (key word) listing.

Marking
Packing
Preservation

6.5 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:
Army - ME
Air Force - 99

Preparing activity:
Army - ME

Review activity:
Army - SM
Air Force - 84

Project 4220-0362

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

RECOMMEND A CHANGE		1. DOCUMENT NUMBER MIL-D-3344D	2. DOCUMENT DATE (YYMMDD) 901121
3. DOCUMENT TITLE Diving Equipment Set: Two Person; 100 Foot Depth, Packaging Of			
4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)			
5. REASON FOR RECOMMENDATION			
6. SUBMITTER NAME (Do not include organization)		7. ORGANIZATION	
8. ADDRESS (Include Zip Code)		9. RESPONSE (Indicate one)	10. DATE SUBMITTED (YYMMDD)
		(1) Commercial	
		(2) AUTOVON (If appropriate)	
8. PREPARING ACTIVITY			
a. NAME		b. TELEPHONE (Include Area Code)	
		(1) Commercial	(2) AUTOVON
		(703) 664-5717	354-5717
c. ADDRESS (Include Zip Code) US Army Belvoir RDE Center ATTN: STRBE-TSE Ft. Belvoir, VA 22060-5606		IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	

