

MIL-C-51179B(EA)
16 September 1974
SUPERSEDING
MIL-C-51179A(MU)
6 May 1969

MILITARY SPECIFICATION

CARRIER, CHEMICAL-BIOLOGICAL MASK, ABC-M13A1

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

1. SCOPE

1.1 This specification covers one type of chemical-biological mask
carrier.

2. APPLICABLE DOCUMENTS

2.1 Government documents. The following documents, of the issue in
effect on the date of invitation for bids or request for proposal, form
a part of this specification to the extent specified herein:

SPECIFICATIONS

FEDERAL

CCC-C-419 - Cloth, Duck, Cotton, Unbleached, Piled-Yarns (Army
and Numbered).

STANDARDS

FEDERAL

FED-STD-123 - Marking for Domestic Shipment (Civil Agencies).
FED-STD-191 - Textile Test Method.

MILITARY

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

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DRAWINGS

US ARMY ARMAMENT COMMAND

EDGEWOOD ARSENAL

E5-4-348 - Carrier, Chemical-Biological Mask, ABC-M13A1.

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

3. REQUIREMENTS

3.1 Materials and components. All materials and components shall be in accordance with Drawing E5-4-348 and the subsidiary drawings listed thereon.

3.1.1 Reinforcing strip. When rubber-coated duck is used for the reinforcing strip (Drawing E5-4-321), it shall consist of duck weighing 8.25 ounces per square yard, conforming to type III of CCC-C-419, which has been evenly coated on both sides with a cured natural or synthetic rubber compound. The coated duck shall have a minimum weight of 21 ounces per square yard (see 4.2.4) and the surfaces shall not be tacky to the touch.

3.2 Manufacture and assembly. The carrier shall be manufactured and assembled in accordance with Drawing E5-4-348.

3.2.1 Stitching. All rows of stitching shall be straight or regular lines, free from loose stitches or thread loops. When stitching is not of continuous thread, each thread end or break shall be back stitched (wherever practicable) for not less than two inches. All seams and hems shall be back stitched at the ends to prevent raveling.

3.2.2 Fasteners. The male and female components of all fasteners shall be securely attached to the fabric. The pressure used in attaching the fastener components shall be applied so that the fabric will not be weakened or injured. The attached fasteners shall function smoothly and efficiently.

3.2.3 Marking. The finished carrier shall be legibly and indelibly marked as shown on Drawing E5-4-348 (see 6.2).

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3.3 Workmanship. The carrier shall be free from damage, such as tears, cuts, and holes. It shall be free of contamination.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection.

4.1.1 Supplier's responsibility. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier 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 specified requirements.

4.1.2 Objective evidence. The supplier shall provide objective evidence acceptable to the contracting officer that the requirements of 3.1 and section 5 for which specific inspection has not been provided in this specification have been satisfied.

4.2 Quality conformance inspection.

4.2.1 Lotting. A lot shall consist of the carriers produced by one manufacturer at one plant, from the same type of material, under essentially the same manufacturing conditions.

4.2.2 Sampling.

4.2.2.1 For examination. Sampling shall be conducted in accordance with MIL-STD-105.

4.2.2.2 For test. Three cuts, one foot long across the width of the roll, shall be taken at random from each roll of rubber-coated duck.

4.2.3 Inspection procedure.

4.2.3.1 For examination. Sample carriers shall be examined in accordance with the classification of defects and MIL-STD-105.

4.2.3.2 For test. Sample cuts of rubber-coated duck shall be examined in accordance with the classification of defects, as applicable, and tested as specified in 4.2.4. The acceptance number is 0.

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4.2.3.3 Classification of defects.(a) Carrier, Chemical-Biological Mask, ABC-M13A1. (Dwg E5-4-348)

<u>Categories</u>	<u>Defects</u>
<u>Critical:</u>	None defined
<u>Major:</u>	AQL 1.0 percent defective
101	Component missing, incorrect, or incorrectly assembled.
102	Inability of carrier to properly contain all the specified contents.
103	Hardware nonfunctional
104	Inside diameter of grommet less than 0.880 inch
105	Damage
106	Contamination (grease and oil)
107	Marking missing, incorrect, or illegible.
<u>Minor:</u>	AQL 2.5 percent defective
201	Seams turned incorrectly
202	Stitching incorrect
*203	Reinforcing strip tacky to the touch
204	Hardware coating missing, inadequate, or incorrect
205	Contamination (other than Major 106)

*When rubber-coated duck is used, inspect for tackiness prior to assembly.

4.2.4 Test. The weight per square yard of the rubber-coated duck shall be determined in accordance with method 5041 of FED-STD-191.

5. PREPARATION FOR DELIVERY

5.1 Packaging, packing and marking, interplant shipment (see 6.4).
The carriers shall be packaged and packed to provide adequate protection from physical damage from the supply source to the first receiving activity for immediate use or further processing. Shipping containers shall be in compliance with the rules and regulations applicable to the mode of transportation. Marking shall be in conformance with FED-STD-123 and shall include the contractors name, address, and contract number.

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5.2 Repair parts. When this item is being procured for storage and issue as a repair part, preservation, packaging, packing, and marking shall be as specified on the packaging data sheet which is identified by its National Stock Number.

6. NOTES

6.1 Intended use. The ABC-M13A1 carrier is intended to support and to protect tank chemical-biological masks.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Applicable size and end item marking for carrier and package and pack.

6.3 International interest. Certain provisions of this specification are the subject of international standardization agreement QSTAG 216. When amendment, revision, or cancellation of this specification is proposed which will affect or violate the international agreement concerned, the preparing activity will take appropriate reconciliation action through international standardization channels including departmental standardization officer, if required.

6.4 Interplant shipments. Packaging for supplies and materials which will not enter the military supply system. Typical interplant shipments are shipments from a vendor to a subcontractor or a prime contractor, or from a subcontractor to a prime contractor, or from a vendor or contractor to a military arsenal or plant.

6.5 Figure 1. Figure 1 is a miniature reproduction of assembly drawing and is attached for information only.

Custodian:

Army - EA

Preparing activity:

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Project No. 4240-A641

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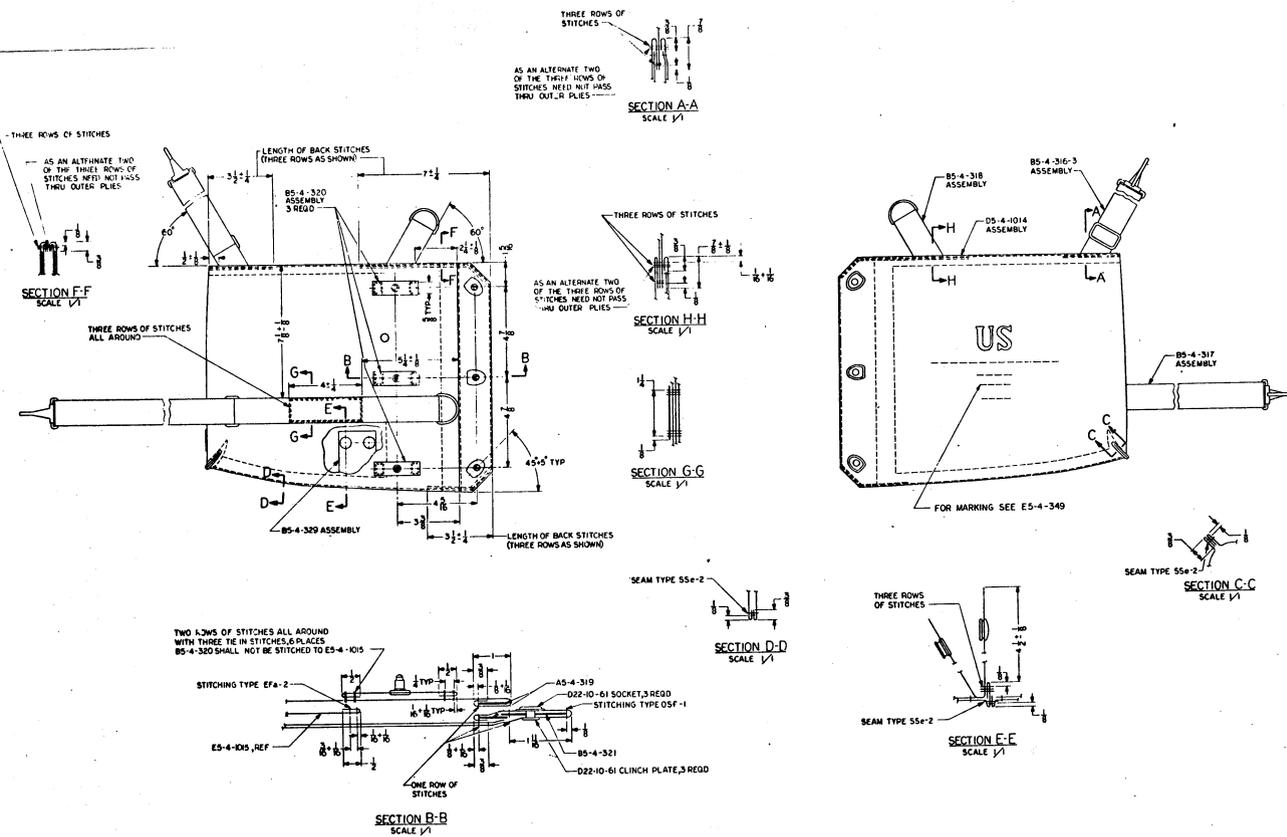


Figure 1

Carrier, Chemical-Biological Mask, ABC-M13A1

THIS FIGURE IS A MINIATURE COPY OF AN EDGEWOOD ARSENAL DRAWING AND IS FOR INFORMATION ONLY: THE DRAWING REFERENCE IN PARAGRAPH 2.1 GOVERNS

