[INCH-POUND]

MIL-PRF-11430F
24 February 1997
SUPERSEDING
MIL-C-11430E
15 November 1991

PERFORMANCE SPECIFICATION

CASE, MILITARY WATER CAN, INSULATED

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

1. SCOPE

1.1 **Scope.** This specification covers the performance and acceptance requiremetns for an insulated case for the 5-gallon military water can (see 6.1).

2. APPLICABLE DOCUMENTS - None

3. REQUIREMENTS

3.1 **First article.** When specified (see 6.2), a sample shall be subjected to first article inspection in accordance with 4.1.1.

3.2 **Operating requirements.** The insulated case shall satisfy the following user oriented requirements.

3.2.1 Color. The insulated case shall be desert tan or olive drab as specified (see 6.2 and 6.5).

3.2.2 Means of carrying. The insulated case shall be designed to provide lifting and carrying by an individual, when used as intended with the water can.

3.2.3 Accessibility to water can. The top (cover) of the insulated case shall provide a seal when closed and be readily opened by an individual wearing arctic mittens.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be used in improving this document should be addressed to: U.S. Army Natick Research, Development, and Engineering Center, Attn: SSCNC-WEF, Natick, MA 01760-5018 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A FSC 7240

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3.2.4 Safety. The material used for the outer shell and insulation shall be nonflammable and nontoxic.

3.2.5 Insulation of 5-gallon water can. The insulated case shall keep water in a fill 5-gallon water can from freezing at temperatures set at -40°F for 20 hours.

3.3 **Support or ownership requirements.** The insulated case shall meet the following requirements.

3.3.1 Weight. The weight of the insulating case shall be no more than ten pounds.

3.3.2 Thickness. The thickness of the outer material and insulation used in the case shall not exceed 1 1/2 inches.

3.3.3 Rigid bottom and sides. The bottom of the case shall be made of a rigid material and it shall extend up from the bottom along the front, back and sides for a distance of at least 1 1/2 inches.

3.3.4 Durability. The insulating case shall withstand the rigors normally exerted by field operations when dropped.

3.3.5 Identification marking. The identification marking shall be located on the inside of the case cover and shall be applied with a marking medium that is well-defined, clearly legible and with characters that are approximately 1/4 inch in height. The marking medium shall be durable and compatible with the material used on the inside of the case cover. The following information is required: “CASE, MILITARY WATER CAN, INSULATED; Contract No; Stock No. and Contractor’s name”.

3.3.5.1 Special marking. The letters, “US” shall be permanently placed on the outside of both sides of the case. The letters shall be in block form and shall be at least 1 inch in height, and the marking medium shall be durable and compatible with the material used on the outside of the case.

3.4 **Environmental requirements.** The insulated case with fill 5-gallon water can shall be functional in ambient temperatures from -40°F to 125°F.

3.5 **Interface and interoperability requirements.** The insulating case shall be designed for use with the 5-gallon water can (NSN 7240-00-089-3827 or NSN 7240-0 1-365-5317). The water can shall fit snugly inside the insulated case.

3.6 **Government-loaned equipment.** The Government shall supply two 5-gallon water cans to be used as a guide to fabricate the insulated case (see 3.5 and 6.7).

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4. VERIFICATION

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

a. First article inspection (see 4.1.1)
b. Conformance inspection (see 4.1.2)

4.1.1 First article inspection. When a first article inspection is required (see 3.1 and 6.2), a sample shall be examined for all the verifications listed in table I.

4.1.2 Conformance inspection. Conformance inspection includes those examinations and tests from table I as defined in the contract or purchase order (see 6.4).

TABLE I. Verification methods

Title	Requirement	Verification
OPERATING REQUIREMENTS	3.2	4.3
Color	3.2.1	4.3.1
Means of carrying	3.2.2	4.3.2
Accessibility to water can	3.2.3	4.3.3
Safety	3.2.4	4.3.4
Insulation of 5-gallon water can	3.2.5	4.3.5
SUPPORT OR OWNERSHIP REQUIREMENTS	3.3	4.4
Weight	3.3.1	4.4.1
Thickness	3.3.2	4.4.2
Rigid bottom and sides	3.3.3	4.4.3
Durability	3.3.4	4.4.4
Identification marking	3.3.5	4.4.5
Special marking	3.3.5.1	4.4.6
OPERATING REQUIREMENT	3.4	4.4.7

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INTERFACE AND INTEROPERABILITY REQUIREMENTS	3.5	4.4.8

4.2 Verification methods. Verification methods can include visual examination, measurement, testing, certification and similarity to previously-approved or previously-qualified designs.

4.2.1 Verification alternatives. The manufacturer may propose alternative test methods, techniques, or equipment, including the application of statistical process control, tool control, or cost-effective sampling procedures to verify performance. See the contract for alternatives that replace verifications required by this specification.

4.3 **Operating requirements verification.** All user requirements shall be verified as follows:

4.3.1 Color examination. Visually inspect the insulating case color for similarity to the standard color samples, as specified in the contract or purchase order (see 6.6).

4.3.2 Means of carrying verification. The insulated case shall be visually inspected to verify that the design is such that an individual can lift or carry the insulated case with the water can inserted.

4.3.3 Accessibility to water can test. A 5-gallon water can shall be inserted in the insulating case and the cover closed. Don a pair of arctic mittens and open the cover to access the water can. With mittens on, close and seal the cover of the insulating case. Opening and closing of the insulated case cover, with mittens on, shall not exceed 20 seconds for each function.

4.3.4 Safety certification. A certificate shall be provided, verifying that the materials used for the outer shell and insulation of the case, do not pose a fire or toxic hazard.

4.3.5 Insulation of 5-gallon water can verification. The insulated case with a full 5-gallon water can inserted, shall be placed in a freezer unit set at - 40° F for 20 hours. The starting temperature of the water shall be approximately 50° F. At the end of 20 hours, remove the insulated case and water can from the freezer and pour the water into gallon containers. At least 4 gallons of water shall be liquid.

4.4 **Support or ownership requirements verification**. All support or ownership requirements shall be verified as follows:

4.4.1 Weight examination. Verify, by weighing, that the insulated case weighs no more than ten pounds.

4.4.2 Thickness examination. Verify, by measuring, that the outer material and insulation material combined, do not exceed a thickness of 1 1/2 inches.

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4.4.3 Rigid bottom and sides examination. Visually verify and measure that the bottom of the insulating case is made of a rigid material. This material shall extend upward from the bottom along the front, back and sides for a distance of at least 1 1/2 inches.

4.4.4 Durability test. Prepare a platform 4 feet from ground level. Fill the 5-gallon water can and insert into the insulating case and place on the platform. The insulated case shall be dropped 3 times from this height. Remove the water can and visually inspect the case to verify that the inside and outer materials are not damaged.

4.4.5 Identification marking inspection. Visually inspect that the required identification marking is complete and accurate. Verify that all markings are legible, well-defined and characters are 1/4 inch in height. The contractor shall certify that the marking medium used is durable.

4.4.6 Special marking inspection. Visually inspect that the "US" marking is on both sides of the outside of the case and the letters are at least 1 inch in block form. The contractor shall certify that the marking medium used is durable.

4.4.7 **Environmental requirements certification**. The contractor shall certify that the insulated case with full 5-gallon water can is functional at ambient temperatures of - 40^0F to 125^0F.

4.4.8 **Interface and interoperability requirements examination**. Verify, by measuring, that the 5-gallon water can fits snugly inside the insulated case. With the water can inserted inside the case, there shall be no more than 1/4 inch distance from the outside surface of the water can to the inside surface of the insulation. Measurements shall be taken with the cover open, at top front, top back and top sides. When measuring, the opposite side shall be touching the inside of the insulation, e.g., if measuring the front, the back side of the water can shall be touching the back inside edge of the insulation. Repeat this procedure for measuring back and sides.

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

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6. NOTES

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

6.1 Intended use. The insulated case is primarily for use in cold climates, for the 5-gallon water can to keep water from freezing. The case and 5-gallon water can may also be used for transporting warm food, coffee or other supplies to troops in the field.

6.2 Acquisition requirements. Acquisition documents must specify the following:

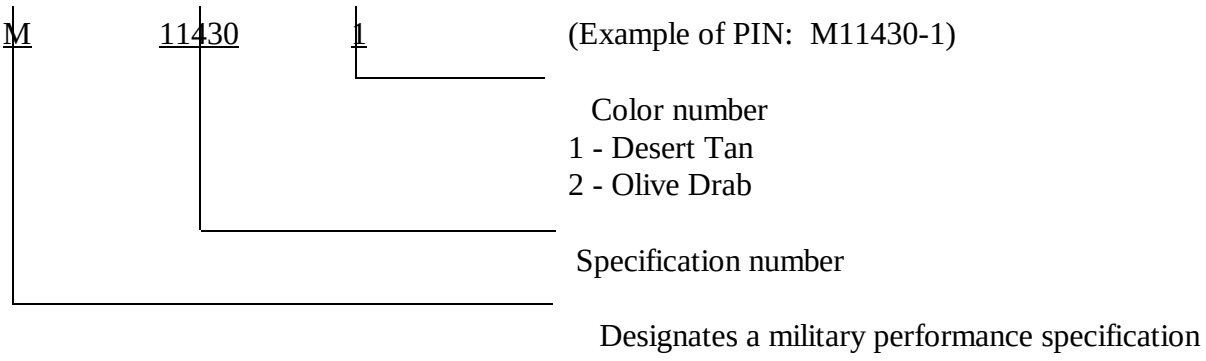
a. Title, number and date of this specification
b. When a first article is required (see 3.1, 4.1.1 and 6.3)
c. Color selection in accordance with 3.2.1
d. Sampling plan for conformance inspection (see 4.1.2)
e. Packaging requirements (see 5.1)

6.3 First article. When requiring a first article inspection, contracting documents should provide specific guidance to offerors. This guidance should cover whether the first article is a first article sample, a first production item, or the number of test items. These documents should also include specific instructions regarding arrangements for examinations, approval of first article test results and disposition of first articles. Pre-solicitation documents should provide Government waiver rights for samples for first article inspection to bidders offering a previously-acquired or tested product. Bidders offering such products who wish to rely on such production testing must furnish evidence with the bid that prior Government approval is appropriate for the pending contract.

6.4 Conformance inspection. Affordable conformance inspection with confidence varies depending upon a number of procurement risk factors. Some of these factors include contractor past performance, government schedules and budget, product material and design maturity, manufacturing capital equipment and processes applied, the controlled uniformity of those processes, labor skills and training, and the uniformity of measuring processes and techniques. During the solicitation, contracting documents should indicate those tests desired from table I and their designated frequency based on a risk assessment for the procurement.

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6.5 Part or identifying number (PIN). The PINS to be used for items acquired by this specification are created as follows:



This example describes a part numbering system for specification MIL-PRF-11430F.

6.6 Standard color samples. Standard color samples are available from the contracting officer. Desert tan shade No. 33446 and olive drab shade No. 34088 are acceptable and can be found in FED-STD-595.

6.7 Government-loaned equipment. Contact the contracting officer for two 5-gallon water cans listed in 3.6.

6.8 Recycled, recovered or environmentally preferable materials. Recycled, recovered or environmentally preferable materials should be used to the maximum extent possible, provided the materials meet or exceed the operational, environmental and maintenance requirements specified herein and promote economically advantageous life cycle costs.

6.9 Subject term (key word) listing.

Container insulating
Cold retention
Heat retention

6.10 Changes from previous revision. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes required to convert this specification from a detail to a performance specification.

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Custodians:

Army - GL
Navy - YD1
Air Force - 99

Review activities:

Army - MD1
Navy - MC
Air Force - 84
DLA - GS

Preparing activity:

Army - GL

(Project 7240-0272)

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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.

I RECOMMEND A CHANGE:	**1. DOCUMENT NUMBER** MIL-PRF-11430F	**2. DOCUMENT DATE (YYMMDD)** 97 02 24

3. DOCUMENT TITLE **Case, Military Water Can, Insulated**

4. NATURE OF CHANGE *(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)*

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*	b. ORGANIZATION	
c. ADDRESS *(Include Zip Code)*	d. TELEPHONE (Include Area Code) (1) Commercial (2) AUTOVON *(if applicable)*	**7.DATE SUBMITTED** (YYMMDD)

8. PREPARING ACTIVITY

a. NAME U.S. Army Natick RD&E Center	b. TELEPHONE *Include Area Code)* (1) Commercial 508-233-5175 (2) AUTOVON 256-5175
c. ADDRESS *(Include Zip Code)* Commander, U.S. Army Natick RD&E Center Attn: SSCNC-WEF Natick, MA 01760-5018	**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:** DEFENSE QUALITY AND STANDARDIZATION OFFICE 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22401-3466 Telephone (703) 756-2340 AUTOVON 289-2340

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