

INCH-POUND

A-A-52218
March 4, 1997
SUPERSEDING
MIL-C-11198K
28 September 1984

COMMERCIAL ITEM DESCRIPTION

CHEST, ICE STORAGE

The General Services Administration has authorized the use of this commercial item description (CID), for all federal agencies.

1. SCOPE

1.1 Scope. This commercial item description (CID) covers an insulated high impact plastic ice storage chest.

1.2 Intended use. This chest is intended to be used in the field for storage of ice or ice with limited A Rations at ambient temperatures up to +120°F.

2. CLASSIFICATION

2.1 Classification. The chest shall be of the following types and classes as specified (see 7.1).

Type I - With wheels
Type II - Without wheels

Class 1 - Brown (Desert sand)
Class 2 - Green (Olive drab)
Class 3 - Commercial color selection (see 3.5)

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.

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3. SALIENT CHARACTERISTICS

3.1 Design and construction. The ice storage chest shall consist of a sealed insulated high impact plastic container and cover. The container shall have an ice cube capacity of 175 pounds minimum. Integral molded grip handles shall be incorporated on two sides for lifting and moving the chest. The top opening chest cover shall fully operate without binding and be attached to the container with a minimum of two, over the center stainless steel cover locking latches. A manually operated drain valve shall be provided on the under side of the chest with easy hand access. All hardware shall be constructed of noncorrosive materials for use in a field environment. The chests shall have the following maximum outside dimensions, and weights:

	Width (inches)	Length* (inches)	Height (inches)	Weight (lbs.)
<u>Type I-With wheels</u>	22	29	38	78
<u>Type II-Without wheels</u>	22	29	33	72

* does not include handles, add 2 inches each end

3.2 Cover. The cover shall be manufactured from the same plastic material and insulation as the container. The cover shall consist of two sections connected to each other by two or more solid hinges. One section of the cover (approximately 1/3) shall be clamped to the container with two over the center stainless steel clamps. The other 2/3 of the cover, shall open fully for access to the interior. The cover shall be so designed that if any fluid is spilled on the closed cover, including the hinged points, it will not enter the interior of the container.

3.3 Latches. Two latches shall be used to secure the smaller portion of the cover to the container. These latches shall be recessed into the body of the container in both the opened and latched positions. The latches shall be attached using four stainless steel (American Iron and Steel Institute, AISI, type 304L or 316) machine screws threaded into corrosion resistant backing plates molded into the container. The latches shall be of sufficient strength, 1/8 inch minimum diameter loop to restrain the entire cover from movement during repeated opening and closing and maintain tension between the cover and the container without a gasket.

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3.4 Wheels. When wheels are required, two of the wheels shall be fixed and two shall be free to pivot. The fixed wheels shall have a minimum of 10 inches outside diameter and the pivoting wheels shall have a minimum of 5 inches outside diameter. A foot operated device shall be provided to lock one of the smaller wheels from rotating.

3.5 Color ("government unique" requirement) (see 7.6). The color of the chest (both exterior and interior surfaces) shall be either Brown (Class 1 - Desert sand); Green (Class 2 - Olive drab); or Commercial color (Class 3) as specified (see 7.1 and 7.3). Chests of a specific lot shall not exhibit any variation in shade from the specific color selected and specified in the contract for that production lot. Class 3 chests shall not reflect a "government unique" requirement for color. For class 3 chests, the color shall be selected from the manufacturer's standard commercial colors and the selected color shall be cited in the contract or purchase order.

3.6 Molded identification marking ("government unique" requirement see 7.6). When specified (see 7.1), the chests shall be furnished with identification information molded or embossed into the surface of the container body. The information required shall be as follows:

National Stock Number _____
Manufacturer's Name _____
Manufacturer's Address _____
Manufacturer's Model Number _____
Date of Manufacture _____

3.7 Workmanship. The chest shall be free of holes, cracks, dents, malformation, or deep scratches. All burrs, splinters, sharp edges, dirt, grease, and foreign matter shall be removed. There shall be no defects affecting serviceability, durability, or appearance.

3.8 Drop test. An empty chest (with cover and both latches in the closed position) shall be dropped vertically from a height of four feet, two consecutive times, on a flat wooden surface, at ambient temperature. After testing, and upon examination, the chest shall be free from cracks, denting or unlatching of either of the latches. For the type I chest, there shall be no operational damage to the wheels.

3.9 Thermal performance test. The chest shall be filled with ice (175 pounds minimum). With the cover in the closed position, the chest shall lose no more than 20 pounds of ice in a 24 hour period when tested at $80 \pm 2^{\circ}\text{F}$. Prior to beginning the test, the chest shall be drained of the initial melted ice water, then tested as specified above by draining the melted ice water at the end of a 24 hours period, and weighing the quantity of melted ice.

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3.10 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within the tolerances specified using conversion tables contained in the latest revision of ASTM E 380, and all other requirements of this CID are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

4. REGULATORY REQUIREMENTS

4.1 Contractor recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description except for any Government unique requirement specified, shall conform to the producer's own drawings, specifications, standards and quality assurance practices, and be the same product offered for sale in the commercial marketplace, or is the same product that has successfully been delivered to the government on a previous contract or purchase order. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

5.2 Market acceptability criteria. The following market acceptability criteria are necessary to document the quality of the product to be provided under this CID:

a. The company producing the item must have been producing a product meeting the requirements of this CID for at least 2 years.

b. The company must have sold 250 items meeting the requirements of this CID, except for the Government unique requirements, in the commercial or government marketplace.

5.3 Warranty. Unless otherwise specified in the contract or purchase order, the manufacturer's standard commercial warranty shall apply.

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5.4 NSF International standard compliance. Prior to approval of the first shipment the contractor shall submit satisfactory evidence to the contracting officer or his authorized representative that the ice storage chests conform to the applicable requirements of NSF International Criteria C-2. Acceptable evidence of meeting the requirements of NSF International Criteria C-2 shall be a listing in the current edition of the NSF International, "Listing of Food Service Equipment" and display of the NSF International mark on the finished product, or a certified test report from a recognized independent laboratory acceptable to the Medical Authority for the buying agency. Testing laboratories acceptable to the Army Medical Department include: NSF International, Underwriters Laboratories, Sanitation and Inchcape Testing Services, and ETL Testing Laboratories.

6. PACKAGING

6.1 Packaging. Preservation, packing, palletization and marking requirements shall be as specified in the contract or purchase order(see 7.1).

7. NOTES

7.1 Ordering data. Acquisition documents must specify the following:

- a. Title, number and date of this CID.
- b. Type, and class required (see 2.1).
- c. Color, when a commercial color is required (see 3.5).
- e. Type of identification marking required (see 3.6).
- f. Packaging requirements (see 6.1).

7.2 Commercial item certification. When this CID is used for procurement, the commercial item certification clause must appear in the solicitation.

7.3 Ice chest. Past experience has shown that ice chests conforming to any of the following Color Nos. of FED-STD-595 were found to be acceptable:

<u>Class 1 - Brown</u>	<u>Class 2 - Green</u>
Color No. 20313	Color No. 24097
30313	34094
30279	34095
	34096
	34097

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7.4 Sources for documents.

7.4.1 Sources for government documents. Copies of federal documents are available from:

Standardization Documents Order Desk
Building 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094.

7.4.2 Sources for non-Government association documents.

ASTM STANDARDS:

E 380 - Use of the International System of Units (SI)
(the Modernized Metric System)

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

NSF INTERNATIONAL

Criteria C-2 - Special Equipment and/or Devices

(Application for copies of NSF International Standard No. 2 Should be addressed to NSF International, 3475 Plymouth Road, Ann Arbor, MI 48105).

7.5 Sources of supply. Manufacturers whose products are known to meet the requirements of this CID are listed below; however, competition is not limited to these companies.

Cambro Manufacturing Company
7601 Clay Ave, PO Box 2000
Huntington Beach, CA 92647-2000
1-800-854-7631

Premier Marketing
Salem, NH 03079
603-898-6065

7.6 "Government unique" requirements. Whenever a "government unique" requirement is included in the title of a paragraph under "Salient Characteristics", it means that the requirement is something that is not normally offered to the commercial marketplace by the manufacturer(s) of the subject commodity.

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MILITARY INTERESTS:

Custodians

Army-GL
Air Force-99

Review Activities

Army-MD1
Navy-MC
Air Force-82
DLA-GS
DLA-IS

CIVIL AGENCY COORDINATION ACTIVITY:

GSA-FSS

PREPARING ACTIVITY:

ARMY- GL

PROJECT 4110-0522

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 A-A-52218	2. DOCUMENT DATE (YYMMDD) 970304
3. DOCUMENT TITLE Chest, Ice Storage			
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 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	