

METRIC

A-A-59845

November 16, 2009

## COMMERICAL ITEM DESCRIPTION

## ANCHOR, ICE, SCREW

This commercial item description is approved for use by the Defense Supply Center, Philadelphia and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE. This commercial item description covers the requirements for ice screws which are used for protecting climbers on steep ice routes by turning the ice screws into the ice.
  2. CLASSIFICATION. The ice screws will be furnished in the sizes as specified in Table I.
  3. SALIENT CHARACTERISTICS. The ice screw shall be chromium-molybdenum 4130 alloy steel with a coarse thread. The hangar portion of the ice screw shall be of stainless steel material and shall have two circular holes sized to fit all types of carabiners in accordance with A-A-59836. The hangar portion shall have a foldable knob to facilitate rapid placement of the ice screw using continuous turns without stopping. The ice screw design shall provide ease of use with any typical combat gloves while meeting the standards described in the description.
- 3.1 Dimensions. The ice screw shall be constructed and comply with the requirements in Table I. The ice screw shall be as light-weight as possible, while meeting the standards described in the description.

TABLE I. Physical characteristics

Size	Ice Screw Length, cm	Min. breaking Strength, kN	Weight, grams
I	16	10	148
II	19	10	168
III	22	10	180

Comments, suggestions, or questions on this document should be addressed to: Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn: DSCP Standardization Team, 700 Robbins Avenue, Philadelphia, PA 19111-5096. Since contact information can change, you may want to verify the currency of this address information using Acquisition Streamlining and Standardization Information System (ASSIST) online database at <http://assist.daps.dla.mil/>.

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3.2 Color. Each size shall have a different colored folding knob on the hangar portion.

3.3 Tests. The ice screw shall meet Union Internationale des Association d'Alpinisme (UIAA) Standard 151.

3.4 Workmanship. The finished ice screw shall conform to the quality of product established by this document. The occurrence of defects shall not exceed the contractors own quality assurance standards and the quality assurance standards defined in the technical data in the solicitation and/or contract.

3.5 Service life. The ice screw shall have no unexpected material or component failures during a continuous one-year cycle. The ice screw shall have no unexpected material or component failures during periodic use over a five year period.

3.6 Labels/barcoding/instruction slip. If applicable, all labeling, barcoding and instruction slip requirements shall be as specified in the solicitation or contract (see 7.2).

4. REGULATORY REQUIREMENTS. 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. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, 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. The government reserves the right to require proof of such conformance.

5.2 Visual examination. Each ice screw shall be examined for the following defects as listed in Table IV.

TABLE IV. End item examination

Examine	Defect Description
Finish	Not smooth and adherent
Construction	Not free of burrs, rough spots, slivers, flat areas or projections Any component loose, missing or not specified type Any component fractured, slit, punctured, dented, bowed, malformed or damaged Marking etched or indented, contains rough or sharp edges
Label, barcoding and instruction slip (if applicable)	Incorrect, illegible, omitted or misplaced.
Marking	Omitted, missing information or illegible

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## 6. PACKAGING.

6.1 Packaging. Preservation, packing, and marking shall be specified in the contract or order.

## 7. NOTES.

### 7.1 Sources of documents.

7.1.1 Government documents. Copies of Government documents are available online at <http://assist.daps.dla.mil/quicksearch/> or from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

## DRAWINGS

### U.S. ARMY NATICK SOLDIER CENTER

3-3-110 Anchor, Ice, Screw

(Copies of drawings are available from the U.S. Army Natick Research Development and Engineering Center, Natick Soldier Center, ATTN: NSRDEC-RDNS-WPW-C, Natick, MA 01760)

7.1.2 Federal Acquisition Regulations are available online at <http://acquisition.gov/far/index.html> or by contacting the Superintendent of Documents at 202-512-1800.

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

### INTERNATIONAL MOUNTAINEERING AND CLIMBING FEDERATION UNION INTERNATIONALE DES ASSOCIATIONS D'ALPINISME (UIAA)

UIAA Safety Standard 151 Mountaineering and Climbing Equipment, Ice Anchors

(Copies are available online at [www.theuiaa.org](http://www.theuiaa.org) or from the Union Internationale Des Associations D'Alpinisme (UIAA) Monbijoustrasse 61 Postfach CH-3000 Bern 23 Switzerland.

7.2 Ordering data. The contract or order should specify the following:

- a. Title, number, and date of this Commercial Item Description.
- b. Type and size required (see 2.1).
- c. When required, labeling, barcoding and instruction slip (see 3.6).
- d. Acceptance criteria (see 5.3).
- e. Packaging (see 6.1).

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MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:  
GSA-FSS

Custodian:

Army - GL  
Marine Corps – MC

PREPARING ACTIVITY:

DLA-CT

Project 8465-2009-017

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