

INCH-POUND

A-A-59837

October 8, 2009

## COMMERCIAL ITEM DESCRIPTION

## CRAMPON, MOUNTAINEERING

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 crampons which are used when walking on ice and hard packed snow, or ascending and descending steep ice faces, to prevent slipping.

2. CLASSIFICATION. The crampons will be furnished in the following types:

2.1 Types

Type I – Basic Crampon

Type II – Advanced Crampon

2.2 Sizing. The crampons will be furnished in a one-size fits all (OSFA) design that accommodates US sizes 4 through 16 while meeting the standards in the description.

3. SALIENT CHARACTERISTICS. The crampons shall be as light-weight as possible, while meeting the standards described in the description. The crampon shall have an adjustable center hinge to adjust the length of the crampon. The crampon shall be of a semi-rigid design (i.e., two plates). The crampon shall be equipped with a bar that links the two plates together. The crampons shall be designed for both snow and ice, and shall withstand occasional rock use. The crampons shall be provided with anti-balling plates which prevent the buildup of snow under the crampon. The crampons shall be provided with a universal strap system which is compatible with all types of mountaineering boots and combat boots by means of a non-slip, semi-rigid molded cup system for the heel and toe. The crampon design shall provide ease of use with typical combat gloves while meeting the standards in the description. The crampons shall be furnished with protectors for the sharp points.

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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3.1 Type I. The crampon shall be furnished with ten (10) points; eight (8) vertical points protruding under the crampon and two (2) forward front points. The two forward front points shall be horizontally oriented for maximum purchase in hard packed snow and soft ice. A minimum of two (2) of the vertical points shall be oriented perpendicular to the crampon rails to prevent shearing in soft snow and provide security while descending. The crampon shall be provided with an extender bar to cover larger size boots if the standard bar doesn't accommodate all sizes.

3.2 Type II. The crampon shall be furnished with twelve (12) points: eight (8) vertical points protruding under the crampon, two (2) semi forward front points, and two (2) forward front points. The two forward front points shall be vertically oriented for maximum purchase in hard ice. The crampon shall be provided with extender bars to cover larger size boots if the standard bars don't accommodate all sizes.

3.3 Color. The crampons shall be provided in a low reflectance, matte finish and provide low contrast with typical use terrain.

#### 3.4 Materials.

3.4.1 Basic Material. The crampon shall be constructed of heat-treated 4130 steel.

3.5 Tests. The crampons shall meet International Mountaineering and Climbing Federation Union Internationale des Associations d'Alpinisme - (UIAA) Standard 153.

3.6 Workmanship. The finished crampon 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.

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

3.8 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).

4.1 Recycled, Recovered, or Environmentally Preferable Materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements and promotes economically advantageous life cycle costs.

## 5. PRODUCT CONFORMANCE PROVISIONS.

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5.1 Product Conformance. The products provided shall meet the salient characteristics of this commercial item, 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 crampon, mountaineering shall be examined for the following defects as listed in Table I:

TABLE I. End item examination

Examine	Defect Description
Finish	Not smooth and adherent Not low reflectance, matte finish Does not provide low contrast with typical use terrain
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
Labels/barcoding/instruction slip (if applicable)	Incorrect, illegible, omitted or misplaced
Marking	Omitted, missing information or illegible

5.3 Acceptance Criteria. Acceptance criteria shall be as specified in the contract or purchase order (see 7.2).

## 6. PACKAGING.

6.1 Preservation, Packing and Marking. The preservation, packing and marking shall be as specified in the contract or order (see 7.2).

## 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

3-3-0156 Crampon, Mountaineering, Type I

3-3-0157 Crampon, Mountaineering, Type II

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(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 153 Mountaineering and Climbing Equipment, Crampons

(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, size and color required (see 2.1).
- c. When required, labeling, barcoding, and instruction slip (see 3.8)
- d. Acceptance criteria (see 5.3).
- e. Packaging (see 6.1).

#### MILITARY INTERESTS:

Custodian:  
Army - GL  
Marine Corps – MC

#### CIVIL AGENCY COORDINATION ACTIVITY: GSA – FSS

PREPARING ACTIVITY:  
DLA-CT

Project 8465-2009-009

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at <http://assist.daps.dla.mil/>