

INCH-POUND

A-A-50200

February 7, 1990

COMMERCIAL ITEM DESCRIPTION

BOOTS, SKI-MOUNTAIN, PLASTIC SHELL

The General Services Administration has authorized the use of this commercial item description.

1. CLASSIFICATION

1.1 Classification. This commercial item description covers one type of boot in whole and half sizes 4-1/2 through 15 in one width, medium.

1.2 Part or identifying number (PIN). A document based PIN to identify sizes of boots is included in section 5 (see 5.4).

2. SALIENT CHARACTERISTICS.

2.1 Description. The boots shall conform to Lowa Denali model 100 LM or equal (See 5.5). The boots shall have a black polyurethane shell composed of separate foot box and flexible cuff units. The foot box shall have toe and heel plates compatible with military crampons and ski bindings conforming to CID A-A-50117 (Crampons) and CID A-A-52051/CID A-A-50092 (Bindings). The inner boot shall be a thermal liner constructed on a last system to insure proper fit. The thermal liner shall have a non-skid, rubber sole which shall extend 1/2 inch around the bottom. The inner boot shall be designed and constructed as a shoe, not as a slipper.

2.2 Foot box. The foot box shall be made from polyurethane. A rubber rand shall extend completely around the base of the unit, and shall be attached to the boot by rubber cement. It shall be recessed in the shell to provide a smooth outer surface with the shell.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Commander, U.S. Army Natick Research, Development, and Engineering Center, STRNC-ES, Natick, MA 01760-5014.
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AMSC/NA

FSC 8430

DISTRIBUTION STATEMENT A. Approved for public release, distribution is unlimited.

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2.2.1 Cuff. The cuff shall be made of polyurethane. It shall be attached to the foot box by a rivet located on each side of the ankle position of the boot.

2.2.2 Counter. The counters shall be made of black leather. They shall be reinforced with nylon, which is sewn onto the inside of each counter. The counters shall be riveted and sewn to the foot box to provide a waterproof barrier.

2.2.3 Nylon gusset. A nylon gusset shall be sewn into the foot box to provide a waterproof instep.

2.2.4 Hooks. Eight speed lacing hooks constructed of copper plated black finished steel shall be located on the foot box. Each hook shall be attached to the foot box by 2 rivets.

2.2.5 Eyelets. Six eyelets constructed of copper plated black finished steel shall be located on the foot box for lacing purposes. Each eyelet shall be attached by one rivet.

2.2.6 Rivets. The rivets shall be made of 203 copper and have a black finish.

2.2.7 Sole. The sole shall be natural or synthetic rubber. The heel of the sole shall contain a 3/4 inch thick anti-shock inlay made of 1050 polyamide foam.

2.3 Thermal liner. The thermal liner shall conform to Lowa Denali model 210 LM or equal (see 5.5).

2.3.1 Exterior. The exterior fabric of the thermal liner shall be a breathable polyester/nylon blend.

2.3.2 Cuff. The cuff shall be leather with a polypropylene foam lining. The leather shall be treated to resist water for a minimum of four hours.

2.3.3 Lining. The outer layer shall be a net of monofilament nylon/polyester. The next layer shall be a laminate consisting of a nylon tricot, moisture vapor permeable membrane with a minimum moisture vapor transfer rate of 2000 grams per square meter per .24 hours (ASTM F 96), and a backing material of 200 grams per square meter polyester felt and polyamide/polyester knit. There shall be a layer of polyethylene foam insulation with a thickness of 3 mm weighing about 280 grams per square meter. The side walls shall have a stiffener, and shall be made of a polyester fabric.

2.3.4 Tongue. The tongue shall be made of an exterior double-mesh polyester fabric, and shall be cushioned with polypropylene foam. The tongue shall be held in place by a 20 mm piece of Velcro attachment to insure that it does not move while the boot is worn.

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2.3.5 Eyelets. Fourteen eyelets for lacing shall be made of steel, and be chrome coated. The eyelets shall be attached to the sides in a polyurethane frame. The eyelets shall be double stitched to the sides of the liner with nylon thread.

2.3.6 Lacing hooks. There shall be two speed lacing hooks at the top of the tongue to aid in closing the liner.

2.3.7 Seams. The main seams shall be covered with a 14mm nylon tape.

2.4 Laces. The laces shall be made of 6100 black polyamide nylon and shall be 140 mm in length.

3. QUALITY ASSURANCE

3.1 Certification. The contractor shall certify, and maintain substantiating evidence, that the product offered meets the salient characteristics and requirements of this Commercial Item Description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. 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.

3.2 Visual examination. Lots of pairs of boots shall be inspected in accordance with MIL-STD-105. The inspection level shall be II. The lot size shall be expressed in units of pairs of boots. The sample size shall be one pair of boots. The acceptable quality level (AQL), expressed in terms of defects per hundred units shall be 2.5. Any deviations from design, material or construction requirements; any component full, tight, or twisted; open seam; any size hole, cut, tear; any spot or stain clearly noticeable; any variation in size, or noticeable variation in color, appearance or finish in boots of a pair.

4. PACKAGING

4.1 Packaging. Each pair of boots shall be packaged in a fiberboard shoe box.

4.2 Packing. Six pairs of boots shall be packed in a fiberboard box conforming to style RSC, type CF (variety SW) or SF, class domestic, grade 275 of PPP-B-636.

4.3 Palletization. When specified (see 5.2), shipping containers shall be palletized in accordance with load type Ia of MIL-STD-147. Each prepared load shall be bonded with straps in accordance with bonding means C and D or film bonding means F or G.

4.4 Marking. Marking shall be in accordance with MIL-STD-129.

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MILITARY INTERESTS:

Custodians:

Army - GL
Navy - NU
Air Force - 99

Review activities:

Army - MD
Air Force - 82
DLA - CT

User activities:

Navy - MC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

PREPARING ACTIVITY:

Army - GL

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