DESERT LIGHT WEIGHT BOOT (REF. 30-320)

TECHNICAL SPECIFICATION

NATO STOCKS NR: 8430-27-0236354 CE ENISO 20347:2004 O1 A E FO





1-SUBJECT

This specification covers the technical specifications, control and test methods of Desert long neck boot – style ref. 30-320 (LE320)

The following NATO Stock Numbers (NSN) is covered by this specification:

NATO STOKS NR. 8430270236354

All tests are made in accordance with the Europian Norm ENISO 20344:2004 and the product is complying with the Europian Norm ENISO 20347:2004

2- SPECIFICATIONS

A. GENERAL

This boot is designed according to the desert conditions. All materials provide comfort and flexibility in desert.

Soft and good quality cow leather in desert colour

Padded collar for comfort

Unlined to reach maximum breathablity

Hooks system on top part of boot for speed fastening

Hooks and eyelets are resistant against rust.

Supported toe and back heel

Ultra light weight

Sweat absorber, anti-bacterial, anti-static sock insert (inlay sole)

Available fittings are medium and large

Direct injection double density polyurethane sole durable against hydrolysis in very hot and humidity environment

Electrical resistance, Antistatic footwear to minimize electrostatic build up to avoid the risk of spark ignition

Size range is between 36 – 48 French Sizing / 3 – 13 British Sizing Standards: NATO and European (ENISO 20347:2004 O1 A E FO)

B. TECHNICAL SPECIFICATION

LEATHER:

Upper Material: Cow suede leather

Colour: Desert

Thickness:

Breaking strength:

Tearing strength:

pH value:

1.8mm (minimum)

2 kg/mm² (minimum)

14 kgf (minimum)

3,2 (minimum)

QUARTER / CANVAS:

Material: Nylon 6.6 Cordura by Dupont

Colour: Beige Weaving: Plain 1/1

Weight: $300 \text{ gr/m2} \pm 20$

Yarn count: Warp: 12 pieces/cm (minimum)

Weft: 11 pieces /cm (minimum

Breaking strength: Warp: 275 kgf (minimum)

Weft: 230 kgf (minimum)

Tearing strength: Warp: 40 kgf (minimum)

Weft: 40 kgf (minimum)

Water Repellency: 4 (minimum)

Colour Fastness (weather conditions): 4 (minimum)

LASTING INSOLE BOARD:

Property: Anti-static, anti-bacterial, sweat absorber

Material: Non-woven bonded fibre board

Thickness: 2 mm (minimum)
Cracking angle: 90 degree (minimum)

Water absorption: 35% (minimum) Water desorption: 35% (minimum)

SUPPORTS:

Toe cap support : Thermoplastic
Thickness : 1,8 mm (minimum)
Ankle (stiffener) support : Thermoplastic

Thickness: 1,6 mm (minimum)

ACCESSORIES AND OTHERS:

Eyelets (holes): 4 pairs per boot

Rustproof

Brass caoted nickel

Hooks (closed): 5 pairs per boot

Rustproof

Brass caoted nickel

Sewing thread: Polyester or Polyamide

Breaking strength: 30N (minimum)

Laces: Polyester or Polyamide

Round shape

Breaking strength: 500 N (minimum)

Length: According to the boot

Inlay Sole (Footbed): Anti-static, sweat absorber, anti-bacterial, removable

Material: Non-woven textile coated felt

Antistationess: 0,1 mOhm – 1000 mOhm (between)

Water absorption: 35% (minimum) Water desorption: 35% (minimum)

SOLE:

Property: - Direct Injection and Moulded: It provides durability and

resistance against sole-upper separation

- Double density polyurethane (PU/PU): Midlayer provides

cushining and comfort as well as flexibility.

- High performance

- Anti-staticness (A) : It provides to minimize electrostatic

build up to avoid the risk of spark ignition.

- Energy Absorbing Heel (E): It provides comfort when jumping walking, running, etc. by absorbing downward force in excess of a body weight. It is to absorb a minimum energy

level 20 joules to take the shock our of the heel area

- Hydrolysis resistance: It provides durability on sole against very humidity and hot weather conditions and longer self life

for products at international storage terms

- Oil resistant outsole (FO): The sole will not swell or become brittle and crack when worn in harsh industrial

environments

- Slip resistant outsole

- Heat resistant up to 110 °C degree

Material: Polyurethane in double layer (PU/PU)

midsole layer (softer) and outsole layer (harder)

Slip resistance : Co-efficient of friction 0.28 heel - 0.32 flat (minimum) Flexing resistance : Cut growth 4 mm after 30.000 cycles (maximum) Abrasion resistance : Density > 0.9 : volume loss 150 mm3 (maximum)

Tearing strength: 8 kN/mm (minimum) Energy absorption (E): 20 joules (minimum)

Electrical resistance (A): 100 k Ω (minimum) – 1000 m Ω (maximum)

Upper / outsole bonding: 4 newton/mm (minimum)

Heat resistance: No melting or crack after contact at 110 0 C for 60 sec.

3 - QUALITY ASSURANCE

All raw materials before production and all finished products after production are being tested in our laboratory which has been accredited by Turkish Standard Institute (TSE) and accredited by SATRA International Notified Body in UK.

It is supported by the implementation of ISO 9001:2000 and membership of SATRA (international laboratory in U.K.) to audit and test the product.

Product is according to NATO standard.

Product is according to European Standards called ENISO 20347:2004 and marked with **CE** label.

P0001 : Manufacturer reference

CE 0312 : SATRA Notified Body reference

EN ISO 20347:2004: Number of European standard of occupational footwear

for professional use

O1 : Type of classification FO A E : Additional property code G550-01 : Product group identification

42 (8) : Size EUR (UK) 12 / 2010 : Date of manufacture

Each pair of boot has a customer information leaflet, which is put, in inner boxes. This leaflet includes information about product, standard and products care.

4 - LABELLING AND PACKAGING

LABELLING:

CE label is stitched inside tongue and each pair bears this CE marking.

Each inner box bears a label sticker, which shows product name and size of the boot. Each outer box bears a label sticker, which shows product name, size of the boot and quantity pairs inside box.

PACKAGING:

Each pair of boot is packed separately in tough cardboard box (inner box). Then one set will be packed together.

10 pairs of boots are packed in a ripped cardboard box (outer box). This quantity can be changed according to customer requirement.

Final packaging shall maintain enough protection to prevent any damage of goods under normal shipment and handling conditions.