

SUMMER BOOT
(REF. ML 350 DV)

TECHNICAL SPECIFICATION

NATO STOCKS NR : 8430270252614
CE ENISO 20347:2004 O1 HRO



1-SUBJECT

This specification covers the technical specifications, control and test methods of Jungle boot – style ref. ML 350 DV Summer Boot

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

NATO STOKS NR. 8430270252614

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

2- SPECIFICATIONS

A. GENERAL

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

Full grain, good quality cow leather in black colour and free from defects like cracks, rotten, burnt, scorched etc. Split leather is never advised for uppers.

Padded collar for comfort and secure fit.

Eyelets are resistant against rust

Supported toe and back heel

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

Direct vulcanized single density rubber sole durable against very tough conditions, hot and/or cold environments.

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

Size range is between 39 – 48 French Sizing / 6 – 13 British Sizing

Standards : NATO and European (ENISO 20347:2004 O1 HRO)

B. TECHNICAL SPECIFICATION

UPPER LEATHER :

Upper Material :	Full grain genuine Cow leather
Colour :	Black
Thickness :	1.8 mm (minimum)
Breaking strength :	20 N/mm ² (minimum)
Tearing strength :	140 N (minimum)
pH :	3,2 (minimum)
Oil :	2.5 – 9 % (Between)
Ash :	4.5 % (maximum)
Chrome :	2.5 – 7.5 % (between)

QUARTER & TONGUE & COLLAR :

Material :	Nylon 6.6 Cordura by Invista
Colour :	Black
Property :	Water Repellent
Tensile strength :	Warp : 260 kgf (minimum) Weft : 220 kgf (minimum)
Tearing strength :	Warp : 35 kgf (minimum) Weft : 35 kgf (minimum)
Water Repellency :	4 (minimum)
Colour Fastness :	4 (minimum)

LASTING INSOLE BOARD :

Property :	Anti-static, anti-bacteriel, sweat absorber
Material :	Non-woven bonded fibre board
Thickness :	2,0 mm (minimum)
Cracking angle :	90 degree (minimum)

SUPPORTS :

Toe cap support :	Thermoplastic fibre board
Thickness :	1,8 mm (minimum)
Stiffener support :	Bonded Fibre board
Thickness :	1,6 mm (minimum)
Ankle Support :	6mm, 65 density PU foam

ACCESSORIES AND OTHERS :

Eyelets (holes) :	3 pairs round eyelets, 1 pair easy roller at ankle 5 pairs d-ring per boot Rustproof
Sewing thread:	Polyester or Polyamide Breaking strength : 30N (minimum)
Laces:	Polyester or Polyamide Flat-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 Antistaticness: 0,1 mOhm – 1000 mOhm (between) Water absorbtion : 35% (minimum)

SOLE :

Property : Direct vulcanized and Moulded : It provides durability and resistance against sole-upper separation
Rubber : High durability
High performance
Anti-staticness (A) : It provides to minimize electrostatic build up to avoid the risk of spark ignition.
Hydrolysis resistance: It provides durability on sole against very humidity, hot and cold 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 outsole up to 300 °C degree (HRO)

Material :	Rubber
Outsole density :	1,15 gr /cm 3 (± 0,2 tolerance)
Hardness :	Outer layer: 65 ± 8 Shore A
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 :	volume loss 130 mm ³ (maximum)
Tearing strength :	8 kN/m (minimum)
Energy absorbtion (E) :	20 joules (minimum)
Electrical resistance (A) :	100 kΩ (minimum) – 1000 mΩ (maximum)
Upper / outsole bonding:	4 newton/mm (minimum) if the sole material tear during the test , the result will be min.3 N /mm
Interlayer bond strength:	4 newton/mm (minimum)) if the sole material tear during the test , the result will be min.3 N /mm
Heat resistance (HRO):	No melting or crack after contact at 300 °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 SATRA International Notified Body in UK and by Turkish Standard Institute (TSE) .

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

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

4 - LABELLING AND PACKAGING

The single boot in each box separated by tissue paper or polypropylene paper to prevent them from coming into contact.

Each pair of footwear is packed in a box with handle in corrugated cardboard inner boxes. The inner boxes shall be placed in outer boxes made of double wall cardboard having, with 10 or 12 pairs in each outer box.

On one side of the inner box the indications below is printed on a sticker with clearly visible characters.

- exact name, reference and/or article of the product contained;
- size details of the product contained;

The outer boxes shall be closed and sealed with adhesive tape on all the flaps.

On one side of the outer boxes the indications below is printed on a sticker with clearly visible characters.

- name of the supplier company (if required);
- exact name, reference and/or article of the product contained;
- quantity of the product contained;
- size details of the product contained;

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