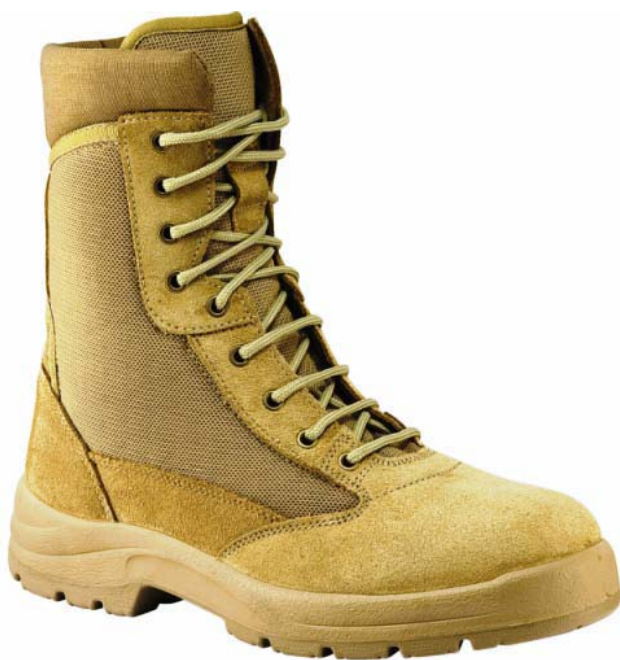


DESERT FIELD BOOT  
( REF. ELTP 1005 DESERT BOOT )

**TECHNICAL SPECIFICATION**

NATO STOCKS NR. 8430270539683

CE ENISO 20347:2004 O1 FO ORO



## **1-SUBJECT**

This specification covers the technical specifications, control and test methods of Desert field boot – style ref. ELTP 1005 Desert Boot

The following NATO Stock Numbers (NSN) is covered by this specification:  
NATO STOKS NR. 8430270539683

## **2- SPECIFICATIONS**

### **2.1. GENERAL PROPERTIES**

- This boot is designed according to the desert conditions. All materials provide comfort and flexibility in desert conditions.
- Soft and good quality, cow leather in desert colour ( see item 2.2.1. )
- Padded collar and tongue for comfort
- Breathable lining ( see item 2.2.4. )
- Flexible points for ankle at front and back
- The zipper on side for Easy fastening ( Wear and Move )
- Eyelets are resistant against rust.
- Sweat absorber , anti-bacterial, anti-static sock insert ( inlay sole )
- There will an optional second inlay sole to adjust the fitting of foot inside boot to reach the best comfort ( see item 2.2.7 )
- Size range is between 36 – 48 Continental Sizing / 3 – 13 British Sizing  
Samples may be submitted in each size and required quantity
- Direct injection double density polyurethane sole durable against hydrolysis in hot and humidity environment ( see item 2.2.8. )
- Standards : The boot will comply with NATO standards  
The boot will comply with European Norm ENISO20347 O1.  
EC Type Examination Certificate will be provided  
Testing to the following standard ENISO 20347:2004 ( +A1;2007 ) in the category O1  
Approved body identification no : 0321 ( SATRA )  
Issued to : Applicant's name  
Boot will have a CE label defining the above standard and category ( see item 3. )  
Boot will have cleaning instruction

### **2.2. TECHNICAL SPECIFICATION**

#### **2.2.1. UPPER LEATHER :**

Upper Material : Cow suede leather  
Colour : Desert  
Thickness : 1.8 mm ( minimum ) ( for vamp and counter )  
Breaking strength : 2.2 kg/mm<sup>2</sup> ( minimum )  
Tearing strength : 2 kgf (minimum)  
pH value : 3,2 ( minimum )

### 2.2.2. OUTER / CANVAS :

Material : Polyamide 6.6.(Cordura ®) laminated with non-wicking felt  
Colour : Beige  
Property : High abrasion resistance, non-running knitted fabric  
Durability and outstanding resistance to tear and scuff  
Breathable  
Weight fabric : 230 gr/m2 (minimum)  
Weight felt : 430 gr/m2 (minimum)

Tearing strength of the fabric	> 130 N	EN ISO 20344
Abrasion resistance	> 90.000 dry cycles > 40.000 wet cycles	EN ISO 20344 : 2007 ; 6.12
Water repellency	> 4	EN 24920
Colour fastness to weathering	> 4	EN ISO 105 B04

### 2.2.3. PADDED COLLAR

Material : Polyamide 6.6.(Cordura ®)  
Non-woven textile  
Colour : Beige  
Property : Water Repellent  
Tensile strength : Warp : 275 kgf ( minimum )  
Weft : 230 kgf ( minimum )  
Tearing strength : Warp : 35 kgf ( minimum )  
Weft : 35 kgf ( minimum )  
Water Repellency : 4 ( minimum )  
Colour Fastness : 4 ( minimum )

### 2.2.4. LINING :

Property : Breathable, sweat absorber, anti-bacterial  
Material : Polyamide textile  
Abrasion : Wet - 25600 revs ( minimum )  
Dry - 12800 revs ( minimum )  
Tearing strength : Warp : 2.5 kgf ( minimum )  
Weft : 2.5 kgf ( minimum )

### 2.2.5. LASTING INSOLE BOARD :

Property : Anti-static, anti-bacteriel, sweat absorber  
Material : Bonded synthetic fibre board Texon  
Thickness : 2,5 mm ( minimum )  
Cracking angle : 90 degree ( minimum )

### 2.2.6. SUPPORTS :

Toe cap support :	Thermoplastic fibre board
Thickness :	1,8 mm ( minimum )
Ankle (stiffener ) support :	Thermoplastic fibre board
Thickness :	1,6 mm ( minimum )
Collar Support :	6mm, 65 density PU foam
Tongue Support :	6mm, middle density sponge

### 2.2.7. ACCESSORIES AND OTHERS :

Eyelets ( holes ) :	9 pairs per boot Rustproof Bronzed colour
Zipper :	Rough plastic ( YKK Brand ) 20 cm ( minimum )
Zipper Puller Cover :	Cow suede leather in desert colour Fixed by polyamide or polyester velcro (YKK)
Sewing thread:	Polyester or Polyamide
Laces:	Polyester or Polyamide Round shape ( wick inside ) Length: According to the boot
Inlay Sole ( Footbed ) (1) :	Non-woven textile coated felt – Anti-static, sweat absorber, anti-bacterial
Inlay Sole ( Footbed ) (2) :	Micro fiber coated opencell PU – Anti-static, sweat absorber, anti-bacterial

The boot has two different types of detachable footbeds ( inlay soles ). It provides more comfort and good fitting for foot inside boot. By this way, fitting of foot can be adjusted personally by using one of the inlay sole or both two at the same time.

### 2.2.8. SOLE :

- Sole Technology : Direct Injection and Moulded :
- Material : Double density polyurethane ( midsole and outsole layers )
- Anti-staticness : provides to minimize electrostatic build up to avoid the risk of spark ignition.  
Electrical resistance : 0,1 megaohm ( minimum )  
1000 megaohm ( maximum )
- Shock Absorbing Heel : provides comfort when jumping ,walking, running , etc. by absorbing downward force in excess of a body weight  
Energy absorbtion : 20 joules ( minimum )
- Hydrolysis resistance : provides durability on sole against humidity and hot weather conditions and longer self life for products at international storage terms  
Hydrolysis test results will be minimum; when Polyurethane outsoles and soles with an outer layer composed of polyurethane are tested in accordance with ENISO 20344:2004, 8.5. The cut growth shall not be greater than 6,0mm before 150.000 flex cycles. 150mm length strip sample will be places in an oven of 70 °C

suspended above water for 14 days, then the sample is placed in a room conditioned to 23 °C with 50% humidity

- Oil resistant outsole
- Slip resistant outsole : 0,32 ( minimum )
- Heat resistant up to 110 °C degree
  
- Light weight, flexible, high performance and comfort
- Flexing resistance : 4 mm ( maximum )
- Abrasion resistance : If density < 0,9 : volume loss 250 mm<sup>3</sup> ( maximum )  
If density > 0,9 : volume loss 150 mm<sup>3</sup> ( maximum )
- Tearing strength : 8 kn/m ( minimum )
- Upper / outsole bonding: 4 newton/mm ( minimum )

### **3 – QUALITY ASSURANCE**

Quality system 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.

Product is according to NATO standards.

Product is according to European Standards and marked with **CE** label.

P0001	:	Manufacturer reference
<b>CE</b>	EN ISO20347:2004	: Reference of European standard ( +A1;2007 )
O1	:	Type of classification
G505-01	:	Product group identification
0321	:	Notified Body No ( SATRA )

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**

#### **4.1. LABELLING:**

Each pair of boot will have cleaning instruction

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.

#### **4.2. PACKAGING:**

Each pair of boot is packed separately in tough recycled 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.