



# SPN.9100 S3 SRC ESD

## SAFETY BOOT KEVLAR/COMPOSITE METAL FREE

REF: 41107000SPN9100QD



**Upper:** High Quality Cow Full-grain Suede Leather

**Lining:** Breathable Sandwich Air Mesh

**Insole:** Comfortable EVA Coated Mesh

**Outsole:** PU/PU Dual Density

**Protective Toecap:** Composite

**Protective midsole:** Kevlar Plate

**Size:** EU 36-47# , UK 2-13# , US 3-14#

**Standard:** CE EN ISO 20345:2011 S3 SRC ESD

**Application:** Industry, Construction, Logistics, Mechanics, Oil & Gas, Chemical Factory, Electrical Worksite, etc.



200 JOULE  
TOECAP



SHOCK  
ABSORPTION



PROTECTIVE  
MIDSOLE



SLIP RESISTANT



OIL AND FUEL  
RESISTANT



ANTI-STATIC



WATER RESISTANT  
UPPER



DISSIPATIVE  
ELETROSTATIC ENERGY



METAL FREE



### Composite Toe Cap Protection • AN1 - EN 12568

Made with lightweight fiber-glass material, which can reach 200 joules from falling or rolling objects. It is stronger and lighter than a steel toecap.



### Kevlar Plate Protection • AN1 - EN 12568

Kevlar midsole plate, is zero-penetration resistant. It can resist 1100 newtons nail puncture from sharp objects. It is stronger and more flexible than steel plate.



### Water Resistant Cow Leather Upper • CE EN ISO 20345:2011

High quality smooth cow leather with a thickness between 1.6-1.8 mm. It's treated with a water resistant coating to protect the feet in a rainy workday. The tear strength is 10% higher than the European test requirement, to reach a longer lifespan.



### Heavy Duty PU/PU Outsole • CE EN ISO 20345:2011

The outsole is made with PU/PU dual density material. The midsole is 45±5 degree hardness PU, witch is soft and shock absorbent. The outsole is 65±5 degree hardness PU, which is tough and abrasion resistant. It also passes the SRC slip-resistant test.

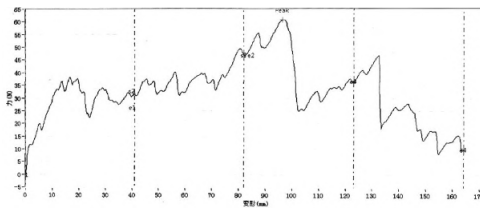


### Slip resistant SRC • CE EN ISO 20345:2011

SRC safety shoes are certified slip resistant and have both SRA and SRB features. SRC is a combination SRA (Resistant on ceramic + Sodium Lauryl Sulphate) and SRB (Steel + Glycerol), due to the surfaces they are tested on.

### Sole Bonding Strength Test

- EN ISO 20344:2011, 5.2 (Between Upper & Sole)
- Average Test Result 5.8±5 (N/mm)



### Upper, Lining & Bonding Strength Test Result

Leather Tear Strength ≥	120.0 Newtons
Leather Tensile Properties ≥	15.0 N/mm <sup>2</sup>
Lining Tear Strength ≥	15.0 N/mm
Bonding Strength ≥	4.0 N/mm

✓ Protection with Composite Toecap (200 Joules)	Result
Impact Resistance: Impact Energy: 200 ± 4 Joules, Internal Height Clearance ≥ 14mm	PASS
Compression Resistance: Compression Force: (15 ± 0.1) KN, Internal Height Clearance ≥ 14mm	
✓ Penetration Resistance (1100 N)	Result
Penetration Resistance Force ≥ 1100 N	PASS
✓ Protection With Slip Resistant (SRC)	Result
Test Requirement: SRA (Eurotile 2+Nal 5) Forward Heel Slip ≥0.28 & Forward Flat Slip: ≥0.32 SRB (Steel Floor+Glycerine) Forward Heel Slip ≥0.13 & Forward Flat Slip: ≥0.18	PASS
Standards: EN ISO 20344:2011(5.11) , SRC Means both SRA & SRB requirements are fulfilled.	
✓ Protection Against Electrical Hazard (EH 18KV)	Result
Test Requirement: Test Voltage 18KV, Test Period 1 Minute, Leakage Current ≤ 1.0mA	PASS
Standards: ASTM F2412-18a, Clause 9	



√ Protection Resistant to Fuel Oil		Result
Test Requirement: Change in Volume and Change in Hardness (Outsole) is No More Than +12%(*)		PASS
Standards: ENISO 20344:2011(8.6.1)		
Standard Package Instruction (Average 42# for Reference)		
Shoes Weight : 1.2-1.3 KGS / Pair	1 Pair / Color Box, Dimensions: 34×23×12 CM	

### User Instructions:

- 1. RECOMMENDED USE:** Industry, Construction, Logistics, Mechanics, Oil & Gas, Chemical Factory, Electrical Worksite, etc.
- 2. LIMITATIONS OF USE:** It is very important that footwear selected must be suitable for the right workplaces. The protection against risks or hazards which are not mentioned in this document is not warranted.
- 3. FITTING & SIZE:** All footwear are marked with standard size on tongue label. Some display a different size comparison, such as EU size, UK size, US size etc.

Please wear footwear in a suitable size. Footwear that is too loose or tight may not provide optimum level of protection.

- 4. STORAGE:** Keep the footwear in its original packaging, under ordinary temperature, non-humid conditions and in clean, covered and a ventilated area.
- 5. CLEANING:** Clean the footwear regularly with high quality cleaning treatments recommended for the purpose. Don't use caustic or corrosive cleaning agents.