

Prod. Ref	26820-N00
Occupational Cat	SB E PS CI HI WPA HRO LG FO SR
Size range	36 - 48 (3 - 13)
Weight (size 42)	715 g
Shape	B
Width (3 - 6)	10
Width (6,5 - 13)	11

Description: Black water repellent full grain leather ankle boot, **SANY-DRY**[®] lining, anti-shock, slipping resistant, non metallic **APT PLUS** midsole **Zero Perforation**, with high electrical resistance

Plus: Insole and sole are highly electric resistant. The whole boot has been designed in order not to have any metal parts (**100 % Metal Free**). **FOOT-PAD HEAT** footbed, extremely soft and comfortable footbed. Thanks to the very low density polyurethane, the footbed is self-molding granting a right distribution of the body weight and providing an immediate feeling of comfort. High shock absorption is provided from highly resilient material and a perfect cushion in the central area of the heel. **ANTI TORSION SUPPORT** made of polycarbonate and fibreglass conveniently placed between heel and sole, which provides support and protection of the plantar arch, thus preventing harmful bendings and/or unwilling torsion. Outsole resistant to +300°C (1 minute contact).

Suggested use: Given the high electrical resistance, it is possible to use this boot as a secondary protective equipment in addition to the primary ones (obligatory) for installation of electric plants and all activities where it is important to reduce the risk of lesions for accidental contacts with hot electric wires. **Footwear for electricians**

Instructions: This boot is not a primary protective equipment. It does not prevent the risk of electrical shock when working with dangerous tensions and does not insulate from high voltage. Apart from these footwear the worker must use other electrical shock protective equipment (i.e. gloves and insulating rubber carpets or alternative systems in the work place). The resistance against electric shocks fails in wet environments and when the outer surface of the sole is contaminated by chemical agents (i.e. road salt) or entrapped conductive materials (i.e. nails or metal swarf). Therefore it is necessary to check the footwear carefully. They must be replaced if damaged or too worn. The use of this shoe is absolutely not advisable in explosive stores or any place with risk of fire

Care and maintenance: Clean after each use and dry off away from direct heat. Avoid contact with aggressive chemicals or extreme temperature. Avoid immersion in sea water, lime water or cement mixed with water



MATERIALS / ACCESSORIES

SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345:2022	Description	Unit	Cofra result	Standards Requirement
Complete shoe	Value of electric resistance higher than that of antistatic footwear		Resistance against electric shocks of the whole footwear	MΩ	> 2000	≥ 1000
	Toe cap: non metallic TOP RETURN toe cap, impact resistant until 200 J	5.3.2.6	Shock resistance (clearance after shock)	mm	14,5	≥ 14
	and compression resistant until 1500 kg	5.3.2.7	Compression resistance (clearance after compression)	mm	15	≥ 14
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation , with high electric resistance	6.2.1	Penetration resistance (PS requirement with Ø 3,0 mm nail)	N	To 1100 N No perforation	≥ 1100
	Heat insulation	6.2.3.1	Heat insulation (temp. increase after 30' at 150 °C)	°C	11	≤ 22
	Cold insulation	6.2.3.2	Cold insulation (temp. decrease after 30' C at -17 °C)	°C	5	≤ 10
	Energy absorption system	6.2.4	Shock absorption	J	36	≥ 20
Upper	Black water repellent full grain leather	5.4.6	Water vapour permeability	mg/cm q h	> 2,1	≥ 0,8
	thickness 1,8/2,0 mm		Permeability coefficient	mg/cm q	> 22,1	≥ 15
		6.3	Water absorption		2,2%	≤ 30%
			Water penetration		0,0 g	≤ 0,2 g

Vamp	Textile, breathable, abrasion resistant, colour black	5.5.4	Water vapour permeability	mg/cmq h	> 84,7	≥ 2	
lining	Thickness 1,2 mm		Permeability coefficient	mg/cmq	> 677,4	≥ 20	
Quarter lining	SANY-DRY® , breathable, abrasion resistant, colour red thickness 1,2 mm	5.5.4	Steam permeability	mg/cmq h	> 64,4	≥ 2	
			Permeability coefficient	mg/cmq	> 515,4	≥ 20	
Sole	Polyurethane - nitrile rubber, with high electrical resistance, directly injected in the upper:	5.8.4	Abrasion resistance (lost volume)	mm ³	106	≤ 150	
		5.8.5	Flexing resistance (cut increase)	mm	2	≤ 4	
	Outsole: black nitrile rubber, slipping resistant, abrasion resistant, hydrocarbons resistant, and hot resistant.	5.8.7	Interlayer bond strength	N/mm	4,5	≥ 3	
	Midsole: black polyurethane, made of a special compound which resists to 150°C for 30 minutes without its chemical-physical features being altered	6.4.4	Hot resistance (300 °C)	----	any melting	any melting	
	Electric insulation of the footwear bottom in dry condition	6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	7,7	≤ 12	
	Adherence coefficient of the sole (Slip resistance)	CAN/CSA Z195-14	Test voltage	18.000 Volts	mA	0,25	≤ 1
			Test time	1 minute			
		5.3.5.2	ceramic + detergent solution – forepart (contact angle 7°)		0,50	≥ 0,36	
			ceramic + detergent solution – heel (contact angle 7°)		0,47	≥ 0,31	
		6.2.10	SR : ceramic + glycerol – forepart (contact angle 7°)		0,29	≥ 0,22	
			SR : ceramic + glycerol – heel (contact angle 7°)		0,25	≥ 0,19	