

Prod. Ref	75531-002
Occupational Cat	SB FO E P SRC
Size range	39 - 48
Weight (size 42)	580 g
Shape	A
Width	11

Description: Black high tenacity, extremely breathable nylon fabric and Microtech® shoe, textile lining, anti-shock, slipping resistant, non metallic **APT Plate** midsole.

Key points: insole and sole are highly electric resistant. The whole boot has been designed in order not to have any metal parts; **Upper made of nylon and mesh, highly breathable and resistant to abrasion (esclusive to Cofra); METATARSAL SUPPORT** footbed, made of soft PU, anatomic, removable, covered with cloth; it guarantees maximum comfort and shock absorption.

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.

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 use and let the shoe dry in airy places, away from heat sources; treat the leather with a suitable shoe-polish; it is better to avoid a continuous contact with aggressive acids or with extreme temperature. Avoid a complete immersion in sea and lime water, and in cement dry or mixed with water.



MATERIALS / ACCESSORIES

SAFETY TECHNICAL SPECIFICATIONS

		Clause EN ISO 20345	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 and compression resistant until 1500 kg	5.3.2.3	Shock resistance (clearance after shock)	mm	14,4	≥ 14
		5.3.2.4	Compression resistance (clearance after compression)	mm	14,2	≥ 14
Upper	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant	6.2.1	Penetration resistance	N	1400	≥ 1100
	Nylon and mesh, highly breathable and resistant to abrasion, colour black	5.4.6	Water vapour permeability	mg/cmq h	> 120,6	≥ 0,8
			Permeability coefficient	mg/cmq	> 967,8	> 20
		5.4.3	Tear resistance	N	118,7	≥ 60
Quarter lining	Textile, breathable, abrasion resistant, colour black Thickness 1,2 mm		Abrasion resistance	cycles	> 150.000	
		5.5.3	Steam permeability	mg/cmq h	> 8,6	≥ 2
			Permeability coefficient	mg/cmq	> 69,2	≥ 30
		6.2.4	Shock absorption	J	> 27,5	≥ 20
Sole	Polyurethane/TPU made of a new electrically insulating compound	5.8.3	Abrasion resistance (lost volume)	mm ³	40	≤ 150
	Outsole: Ice TPU, slipping resistant, abrasion resistant and hydrocarbons resistant	5.8.4	Flexing resistance (cut increase)	mm	2	≤ 4
	Midsole: Black polyurethane, low density, comfortable and anti-shock	5.8.5	Interlayer bond strength	N/mm	> 5	≥ 4
		5.8.7	Hydrocarbons resistance (ΔV = volume increase)	%	- 0,5	≤ + 12
	Electric insulation of the footwear bottom in dry condition	CAN/CSA Z195-02	Test voltage 18.000 Volts	mA	0,250	≤ 1
			Test time 1 minute			
	Adherence coefficient of the sole	5.3.5	SRA : ceramic + detergent solution – flat		0,36	≥ 0,32
			SRA : ceramic + detergent solution – heel (contact angle 7°)		0,38	≥ 0,28
			SRB : steel + glycerol – flat		0,18	≥ 0,18
			SRB : steel + glycerol – heel (contact angle 7°)		0,13	≥ 0,13

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