



Prod. Ref.	18550-N01
Safety cat.	S3S FO SR
Range of sizes	35 - 48 (2 - 13)
Weight (sz. 8)	490 g
Shape	B
Width	11

Description: Black/orange **TECHSHELL**, innovative, very tough, abrasion resistant, water repellent and breathable fabric ankle boot, **SANY-DRY**[®] lining, antistatic, anti-shock, slipping resistant, non metallic **APT Plus** midsole **Zero Perforation**

Plus: FOOT-PAD 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. Perfumed sole. **TPU toe cap protection**

Suggested uses: Construction, maintenance, warehouses, transportation sector, industries

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	Requirement
Complete shoe	Toe cap: ALUMINIUM made, ultra light, impact resistant until 200 J and compression resistant until 1500 kg	5.3.2.6	Shock resistance (clearance after shock)	mm	15	≥ 14
		5.3.2.7	Compression resistance (clearance after compression)	mm	16,5	≥ 14
	Anti perforation midsole: in multi-layers highly tensile fabric, penetration resistant, Zero Perforation	6.2.1	Penetration resistance (PS requirement with Ø 3,0 mm nail)	N	To 1100 N No perforation	≥ 1100
	Antistatic shoe: the bottom is fit for the dissipation of electrostatic charges	6.2.2.2	Electric resistance - wet - dry	MΩ MΩ	269,35 465,33	≥ 0.1 ≤ 1000
Upper	Energy absorption system TECHSHELL , innovative, very tough, abrasion resistant, water repellent and breathable fabric, colour black and orange	6.2.4	Shock absorption	J	35	≥ 20
		5.4.6	Water vapour permeability	mg/cmq h	> 5	≥ 0,8
			Permeability coefficient	mg/cmq	> 41.5	≥ 15
		6.3	Water absorption		13,37%	≤ 30%
			Water penetration		0,0 g	≤ 0,2 g
Upper	Black water repellent microfibre thickness 1,8 mm	5.4.3	Tear resistance Abrasion resistance	N Cycle	233 > 600.000	≥ 60
		5.4.6	Water vapour permeability	mg/cmq h	> 12,4	≥ 0,8
			Permeability coefficient	mg/cmq	> 99,8	≥ 15
		6.3	Water absorption		16%	≤ 30%
			Water penetration		0,0 g	≤ 0,2 g
Vamp lining	Textile, breathable, abrasion resistant, colour black Thickness 1,2 mm	5.5.4	Water vapour permeability	mg/cmq h	> 84,7	≥ 2
			Permeability coefficient	mg/cmq	> 677,4	≥ 20
Quarter lining	SANY-DRY [®] , breathable, abrasion resistant, colour black thickness 1,2 mm	5.5.4	Water vapour permeability	mg/cmq h	> 64,4	≥ 2
			Permeability coefficient	mg/cmq	> 515,4	≥ 20
Sole	Antistatic Polyurethane/TPU directly injected in the upper: Outsole: orange TPU, slipping resistant, abrasion resistant and hydrocarbons resistant.	5.8.4	Abrasion resistance (lost volume)	mm ³	89	≤ 150
		5.8.5	Flexing resistance (cut increase)	mm	1,6	≤ 4

Midssole: black polyurethane, low density, comfortable and anti-shock.
Adherence coefficient of the sole (Slip resistance)

5.8.7	Interlayer bond strength	N/mm	3,1	≥ 3
6.4.2	Hydrocarbons resistance (ΔV = volume increase)	%	6,5	≤ 12
5.3.5.2	ceramic + detergent solution – forepart (contact angle 7°)		0,40	≥ 0,36
	ceramic + detergent solution – heel (contact angle 7°)		0,33	≥ 0,31
6.2.10	SR : ceramic + glycerol – forepart (contact angle 7°)		0,26	≥ 0,22
	SR : ceramic + glycerol – heel (contact angle 7°)		0,24	≥ 0,19