

TECHNICAL SHEET



Article: **B1705A PARIS**

Norm: **EN ISO 20345:2022**

Safety Class: **S1PS ESD LG SC FO SR**

Sole	S70 BLACK ORANGE
Weight, size 42:	575 g
Footwear height:	130
Width:	11,5
Construction / Sole:	STROBEL; ESD AirTech/Tpu-Skin injected outsole
Anti-perforation insert	Fresh'n Flex Plus Super Light (PS)
Insole:	
Footbed supplied:	Dry'n Air Omnia Comfort Cube
Other usable Footbeds (certified):	Dry'n Air Omnia ESD; Dry'n Air Scan&Fit Omnia; Dry'n Air Omnia ESD Weareco; Super Comfort; Secosol; S
ESD Protection for electronic devices	CEI EN 61340-4-3:2018; CEI EN 61340-4-5:2018; CEI EN 61340-5-1:2016

ESD Protection (Electrostatic discharges) for electronic devices

Suitable for use in EPA areas (Electrostatic discharges protected area)

Component	Description	Value	Minimum Requirement	Norm
ESD Footwear	Sole electrical ground resistance (resistance of the whole worn footwear / metal floor)	$1,38 \times 10^7 \Omega$	$< 1,00 \times 10^9 \Omega$	CEI EN 61340-5-1
	Sole electrical transversal resistance (footwear resistance)	$6,23 \times 10^6 \Omega$	$\leq 1,00 \times 10^8 \Omega$	CEI EN 61340-5-1
	Chargeability	67,28 V	$< 100 \text{ V}$	CEI EN 61340-5-1

Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
SlimCap toe-cap	Impact Resistance (200J)	16,5 mm	$\geq 14,0 \text{ mm}$	5.3.2.3
	Compression Resistance (15 kN)	20,0 mm	$\geq 14,0 \text{ mm}$	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Heel	0,38	$\geq 0,31$	5.3.5.2
	•Ceramic + Det. + Forepart	0,42	$\geq 0,36$	5.3.5.2
	•Ceramic + Glycerin (SR) - Heel	0,24	$\geq 0,19$	6.2.10.1
	•Ceramic + Glycerin (SR) - Forepart	0,28	$\geq 0,22$	6.2.10.1
Fresh'n Flex Plus Super Light (PS)	Puncture resistance. 20345:2022	1380 N	Average value $\geq 1100\text{N}$; Single value $\geq 950\text{N}$	6.2.1.1.4
Footwear with insole (A)	Antistatic properties			
	Electrical resistance	wet $40,5 \text{ M}\Omega$ - dry $7,98 \text{ M}\Omega$	$0,1 \div 1000 \text{ M}\Omega$	6.2.2.2
Energy absorption (E)	Shock-absorption in the heel region	31 J	$\geq 20 \text{ J}$	6.2.4
(SC)	•Abrasion resistance of the toe region	Comforms	After 8000 cycles, the SC has no holes	6.2.9

Upper

Materials	Description	Value	Minimum Requirement	Norm
Technical fabric	Tear strenght	90 N	≥ 60 N	5.4.3
	Tensile Strenght	N/A	≥ 15 N/mm ²	5.4.4
	Water vapour permeability	7,7 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water vapour coefficient	69,8 mg/cm ²	≥ 15mg/cm ²	5.4.6
Technical fabric	Tear strenght	200 N	≥ 60 N	5.4.3
	Tensile Strenght	N/A	≥ 15 N/mm ²	5.4.4
	Water vapour permeability	20,6 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water vapour coefficient	166.6 mg/cm ²	≥ 15mg/cm ²	5.4.6

Lining

Materials	Description	Value	Minimum Requirement	Norm
Hi-tech 3D fabric	Tear Strenght	51 N	≥ 15 N	5.5.1
	Abrasion resistance	• No dry hole	No holes before 51,200 cycles	5.5.2
		• No hole in humid environment	No holes before 25,600 cycles	5.5.2
	Water steam permeability	80,1 mg/cm ² h	≥ 2,0 mg/cm ² h	5.5.3
	Chromium VI content (if leather)	N/A	Not detectable	5.5.5

Sole

Materials	Description	Value	Minimum Requirement	Norm
AirTech et Tpu Skin ESD Anti-Fatigue Sole	Cleat height	4,0 mm	≥ 2,5 mm	5.8.1.3
	Tear Strenght	11,4 kN/m	≥ 8 kN/m	5.8.2
	Abrasion resistance	169 mm ³	≤ 250 mm ³	5.8.3
	Flexural resistance after 30,000 cycles	2 mm	≤ 4,0 mm	5.8.4
	Flexural resistance after 150,000 cycles (hydrolysis)	3,5 mm	≤ 6,0 mm	5.8.5
	Upper/outsole bond strenght	N/A	> 4 N/mm; ≥ 3 N/mm with sole tear*	5.8.6
	Hydrocarbon resistance FO (volume change)	4 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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