

TECHNICAL SHEET



Article: **B0967A SYRIUS**

Norm: **EN ISO 20345:2022**

Safety Class: **S1PL ESD FO SR**

Sole	S29 ESD BLACK
Weight, size 42:	537 gr
Footwear height:	96 mm
Width:	12
Construction / Sole:	STROBEL; ESD single density AirTech injected outsole
Anti-perforation insert	Fresh'n Flex ESD ballistic fabric
Insole:	
Footbed supplied:	Dry'n Air Omnia ESD
Other usable Footbeds (certified):	Dry'n Air Scan&Fit Omnia; Secosol; Secosol Complete; Secosol Dynamic
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)	$3,98 \times 10^7 \Omega$	$< 1,00 \times 10^9 \Omega$	CEI EN 61340-5-1
	Sole electrical transversal resistance (footwear resistance)	$2,60 \times 10^7 \Omega$	$\leq 1,00 \times 10^8 \Omega$	CEI EN 61340-5-1
	Chargeability	5,20 V	$< 100 \text{ V}$	CEI EN 61340-5-1

Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
SlimCap toe-cap	Impact Resistance (200J)	15,5 mm	$\geq 14,0 \text{ mm}$	5.3.2.3
	Compression Resistance (15 kN)	18,5 mm	$\geq 14,0 \text{ mm}$	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Hill	0,76	$\geq 0,31$	5.3.5.2
	•Ceramic + Det. + Tip	0,68	$\geq 0,36$	5.3.5.2
	•Ceramic + Glycerin (SR) - Hill	0,36	$\geq 0,19$	6.2.10.1
	•Ceramic + Glycerin (SR) - Tip	0,39	$\geq 0,22$	6.2.10.1
Outsole (SRC)	Slip resistance 20345:2011			
	•SRA – Hill (angle of 7°)	0,72	$\geq 0,28$	5.3.5.2
	•SRA – sole (full sole)	0,69	$\geq 0,32$	5.3.5.2
	•SRB – Hill (angle of 7°)	0,29	$\geq 0,13$	5.3.5.3
	•SRB – Sole (Full sole)	0,34	$\geq 0,18$	5.3.5.3
Footwear with insole (A)	Antistatic properties			
	Electrical resistance	dry 81,4 M Ω - wet 38,7 M Ω	$0,1 \div 1000 \text{ M}\Omega$	6.2.2.2
Energy absorption (E)	Shock-absorption in the heel region	36 J	$\geq 20 \text{ J}$	6.2.4

Upper

Materials	Description	Value	Minimum Requirement	Norm
Technical fabric	Tear resistance	251 N	≥ 60 N	5.4.3
	Water steam permeability	2,3 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water steam coefficient	19,3 mg/cm ²	≥ 15,0 mg/cm ²	5.4.6
	Chromium VI content (if leather)	N/A	Not detectable	5.4.9
	Water passed	N/A	≤ 0,2 g	6.3
	Absorption d'eau	N/A	≤ 30%	6.3

Lining

Materials	Description	Value	Minimum Requirement	Norm
Hi-tech 3D fabric	Tear resistance	47 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	21,1 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
ESD single density AirTech anti-fatigue outsole	Crampon height	4,0 mm	≥ 2,5 mm	5.8.1.3
	Tear resistance	10,1 kN/m	≥ 5 kN/m	5.8.2
	Abrasion resistance	143 mm ³	≤ 250 mm ³	5.8.3
	Flexural strength after 30,000 cycles	1,9 mm	≤ 4,0 mm	5.8.4
	Flexural strength after 150,000 cycles (hydrolysis)	4,1 mm	≤ 6,0 mm	5.8.5
	Tread-midsole detachment	N/A	> 4 N/mm; ≥ 3 N/mm with sole tear*	5.8.6
	Hydrocarbon resistance FO (volume change)	6,5 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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