

TECHNICAL SHEET



Article: B1212C ARYA

Norm: EN ISO 20345:11

Safety Class: S1P ESD SRC

Sole	S40 BLACK
Weight, size 37:	450 gr
Footwear height:	95 mm
Width:	10,5
Construction / Sole:	STROBEL; ESD AirTech/Tpu-Skin injected outsole
Anti-perforation insert	Fresh'n Flex ESD ballistic fabric
Insole:	
Footbed supplied:	Dry'n Air Omnia ESD Weareco
Other usable Footbeds (certified):	Dry'n Air Omnia ESD; 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)	$4,17 \times 10^7 \Omega$	$< 1,00 \times 10^9 \Omega$	CEI EN 61340-5-1
	Sole electrical transversal resistance (footwear resistance)	$5,81 \times 10^7 \Omega$	$\leq 1,00 \times 10^8 \Omega$	CEI EN 61340-5-1
	Chargeability	20,98 V	$< 100 \text{ V}$	CEI EN 61340-5-1

Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
SlimCap toe-cap	Impact Resistance (200J)	15,0 mm	$\geq 14,0 \text{ mm}$	5.3.2.3
	Compression Resistance (15kN)	18,0 mm	$\geq 14,0 \text{ mm}$	5.3.2.3
Outsole (SRC)	Slip resistance 20345:2011			
	•SRA – Heel (angle of 7°)	0,44	$\geq 0,28$	5.3.5.2
	•SRA – Flat (full sole)	0,46	$\geq 0,32$	5.3.5.2
	•SRB – Heel (angle of 7°)	0,13	$\geq 0,13$	5.3.5.3
	•SRB – Sole (Full sole)	0,18	$\geq 0,18$	5.3.5.3
Fresh'n Flex (P)	Puncture resistance 20345:2011	No perforation	$\geq 1100 \text{ N}$	5.2.1.1.2
Energy absorption (E)	Shock-absorption in the heel region	30 J	$\geq 20 \text{ J}$	6.2.4

Upper

Materials	Description	Value	Minimum Requirement	Norm
Velour microfiber	Tear strenght	94 N	≥ 60 N	5.4.3
	Tensile Strenght	N/A	≥ 15 N/mm ²	5.4.4
	Water vapour permeability	2,3 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water vapour coefficient	20,0 mg/cm ²	≥ 15 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
	Water absorption	N/A	≤ 30%	6.3
Technical fabric	Tear Strenght	83 N	≥ 60 N	5.4.3
	Tensile Strenght	N/A	≥ 15 N/mm ²	5.4.4
	Water vapour permeability	95,2 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water vapour coefficient	761,8 mg/cm ²	≥ 15mg/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
	Water absorption	N/A	≤ 30%	6.3

Lining

Materials	Description	Value	Minimum Requirement	Norm
Hi-tech 3D fabric	Tear Strenght	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
AirTech + Tpu-Skin anti-fatigue	Cleat height	4,5 mm	≥ 2,5 mm	5.8.1.3
	Tear Strenght	8,7 kN/m	≥ 8 kN/m	5.8.2
	Abrasion resistance	73 mm ³	≤ 250 mm ³	5.8.3
	Flexural resistance after 30,000 cycles	2,0 mm	≤ 4,0 mm	5.8.4
	Flexural resistance after 150,000 cycles (hydrolysis)	2,5 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)	9 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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