

TECHNICAL SHEET



Article: **B0668A KOMODO**

Norm: **EN ISO 20345:2022**

Safety Class: **S1PS ESD FO SR**

Sole	S10 WEARECO
Weight, size 42:	525 g
Footwear height:	90 mm
Width:	11
Construction / Sole:	STROBEL; injected sole Airtech/Tpu-Skin ESD Weareco
Anti-perforation insert	Ballistic Fabric
Insole:	
Footbed supplied:	Dry'n air Record ESD Weareco
Other usable Footbeds (certified):	Dry'n Air Scan&Fit Record; Secosol; 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
Entire ESD footwear	Sole electrical ground resistance (resistance of the whole worn footwear / metal floor)	$6,56 \times 10^7 \Omega$	$< 1,00 \times 10^9 \Omega$	CEI EN 61340-5-1
	Sole electrical transversal resistance (footwear resistance)	$6,75 \times 10^7 \Omega$	$\leq 1,00 \times 10^8 \Omega$	CEI EN 61340-5-1
	Chargeability	9,15 V	$< 100 \text{ V}$	CEI EN 61340-5-1

Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
SlimCap toe-cap	Impact Resistance (200J)	16,0 mm	$\geq 14,0 \text{ mm}$	5.3.2.3
	Compression Resistance (15 kN)	17,0 mm	$\geq 14,0 \text{ mm}$	5.3.2.4
Outsole (SR)	•Ceramic + Det. - Hill	0,43	$\geq 0,31$	5.3.5.2
	•Ceramic + Det. + Tip	0,47	$\geq 0,36$	5.3.5.2
	•Ceramic + Glycerin (SR) - Hill	0,23	$\geq 0,19$	6.2.10.1
	•Ceramic + Glycerin (SR) - Tip	0,26	$\geq 0,22$	6.2.10.1
Outsole (SRC)	•SRA – Hill (angle of 7°)	0,49	$\geq 0,28$	5.3.5.2
	•SRA – sole (full sole)	0,42	$\geq 0,32$	5.3.5.2
	•SRB – Hill (angle of 7°)	0,26	$\geq 0,13$	5.3.5.3
	•SRB – Sole (Full sole)	0,21	$\geq 0,18$	5.3.5.3
Fresh'n Flex ESD Weareco (P)	Puncture resistance. 20345:2011	No perforation	No perforation at $\geq 1100\text{N}$	6.2.1.1.1
	Puncture resistance. 20345:2022	1288 N	Average value $\geq 1100\text{N}$; Single value $\geq 950\text{N}$	6.2.1.1.4
Energy absorption (E)	Shock-absorption in the heel region	33 J	$\geq 20 \text{ J}$	6.2.4

Upper

Materials	Description	Value	Minimum Requirement	Norm
Technical fabric Weareco	Tear resistance	202 N	$\geq 60 \text{ N}$	5.4.3
	Traction resistance	N/A	$\geq 15 \text{ N/mm}^2$	5.4.4
	Water steam permeability	11,9 mg/cm ² h	$\geq 0,8 \text{ mg/cm}^2 \text{ h}$	5.4.6
	Water steam coefficient	97,3 mg/cm ²	$\geq 15,0 \text{ mg/cm}^2$	5.4.6
	Chromium VI content (if leather)	N/A	Not detectable	5.4.9
	Water passed	N/A	$\leq 0,2 \text{ g}$	6.3
	Water absorption	N/A	$\leq 30\%$	6.3

Lining

Materials	Description	Value	Minimum Requirement	Norm
3D Hi-Tech Weareco Lining	Tear resistance	53 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	26,6 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

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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