

TECHNICAL SHEET



Article: **B0666B YELLOWSTONE**

Norm: **EN ISO 20345:2022**

Safety Class: **S3S ESD FO SR**

Sole	S10 WEARECO
Weight, size 42:	515 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)	Slip Resistance 20345:2022			
	•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
Outsole (SRC)	Slip resistance 20345:2011			
	•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
Fresh'n Flex ESD Weareco (P)	•SRB – Sole (Full sole)	0,21	$\geq 0,18$	5.3.5.3
	Puncture resistance. 20345:2011	No perforation	No perforation at $\geq 1100\text{N}$	6.2.1.1.1
Energy absorption (E)	Puncture resistance. 20345:2022	1288 N	Average value $\geq 1100\text{N}$; Single value $\geq 950\text{N}$	6.2.1.1.4
	Shock-absorption in the heel region	33 J	$\geq 20 \text{ J}$	6.2.4

Upper

Materials	Description	Value	Minimum Requirement	Norm
Technical fabric	Tear resistance	122 N	≥ 60 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm ²	5.4.4
	Water steam permeability	12,4 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water steam coefficient	101,2 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	0,0 g	≤ 0,2 g	6.3
	Water absorption	13 %	≤ 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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