

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 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
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
	•Ceramic + Glycerin (SR) - Tip	0,26	$\geq 0,22$	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
	•SRB – Sole (Full sole)	0,21	$\geq 0,18$	5.3.5.3
Fresh'n Flex ESD Weareco (P)	Puncture resistance. 20345:2011			6.2.1.1.1
	Puncture resistance. 20345:2022	1288 N		6.2.1.1.4
Footwear with insole (A)	Antistatic properties			
	• Electrical resistance		$\geq 10^5 \Omega, \leq 10^9 \Omega$	6.2.2.2
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	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		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			5.5.2
				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		5.5.5

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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