

## TECHNICAL SHEET



**Article:** **B0636 BOB**

**Norm:** **EN ISO 20345:2022 +A1:2024**

**Safety Class:** **S3S ESD FO SR**

<b>Sole</b>	S10 WHITE
<b>Weight, size 42:</b>	540 g
<b>Footwear height:</b>	80 mm
<b>Width:</b>	11
<b>Construction / Sole:</b>	STROBEL; ESD AirTech/Tpu-Skin injected outsole
<b>Anti-perforation insert</b>	Ballistic fabric Fresh'n Flex (PS) ESD
<b>Insole:</b>	
<b>Footbed supplied:</b>	Dry'n Air Record ESD
<b>Other usable Footbeds (certified):</b>	Dry'n air Record ESD Weareco; Dry'n Air Scan&Fit Record; Secosol; Secosol Dynamic
<b>ESD Protection for electronic devices</b>	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 )	$6,24 \times 10^7 \Omega$	$< 1,00 \times 10^9 \Omega$	CEI EN 61340-5-1
	Sole electrical transversal resistance (footwear resistance)	$5,9 \times 10^7 \Omega$	$\leq 1,00 \times 10^8 \Omega$	CEI EN 61340-5-1
	Chargeability	10 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 (15 kN)	16.5 mm	$\geq 14,0 \text{ mm}$	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Heel	0.42	$\geq 0.31$	5.3.5.2
	•Ceramic + Det. + Forepart	0.45	$\geq 0,36$	5.3.5.2
	•Ceramic + Glycerin (SR) - Heel	0.23	$\geq 0,19$	6.2.10.1
	•Ceramic + Glycerin (SR) - Forepart	0.26	$\geq 0,22$	6.2.10.1
Fresh'n Flex ESD (PS)	Puncture resistance. 20345:2022	1295 N	Average value $\geq 1100\text{N}$ ; Single value $\geq 950\text{N}$	6.2.1.1.4
Footwear with insole (A)	Antistatic properties			
	Electrical resistance	dry 116,4 M $\Omega$ - wet 11,4 M $\Omega$	$0,1 \div 1000 \text{ M}\Omega$	6.2.2.2
Energy absorption (E)	Shock-absorption in the heel region	29 J	$\geq 20 \text{ J}$	6.2.4

**Upper**

Materials	Description	Value	Minimum Requirement	Norm
Water resistant microfiber	Tear Strenght	133 N	$\geq 60 \text{ N}$	5.4.3
	Water vapour permeability	3,3 mg/cm <sup>2</sup> h	$\geq 0,8 \text{ mg/cm}^2 \text{ h}$	5.4.6
	Water vapour coefficient	31,6 mg/cm <sup>2</sup>	$\geq 15\text{mg/cm}^2$	5.4.6
	Water passed	0,2 g	$\leq 0,2 \text{ g}$	6.3
	Water absorption	27 %	$\leq 30\%$	6.3

## Lining


Materials	Description	Value	Minimum Requirement	Norm
Hi-tech 3D fabric	Tear Strength	51 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	80,1 mg/cm <sup>2</sup> h	≥ 2,0 mg/cm <sup>2</sup> h	5.5.3

## Sole

Materials	Description	Value	Minimum Requirement	Norm
AirTech et Tpu Skin ESD Anti-Fatigue Sole	Cleat height	4,5 mm	≥ 2,5 mm	5.8.1.3
	Tear Strength	10,8 kN/m	≥ 5 kN/m	5.8.2
	Abrasion resistance	170 mm <sup>3</sup>	≤ 250 mm <sup>3</sup>	5.8.3
	Flexural strength after 30,000 cycles	1,5 mm	≤ 4mm	5.8.4
	Flexural strength after 150.00 cycles (hydrolysis)	2,5 mm	≤ 6 mm	5.8.5
	FO Fuel resistance (volume changes)	3,9 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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