

TECHNICAL SHEET



Article: **B1045C K-SUPER**

Altre Norme

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

Safety Class: **S1PS ESD HRO SC FO SR**

ASTM F2413-18 M/I/C SD 100 PR

Sole	S31 LIME
Weight, size 42:	560 g
Footwear height:	94 mm
Width:	11,5
Construction / Sole:	STROBEL; double density PU/Rubber cemented outsole
Anti-perforation insert	Fresh'n Flex Plus Super Light (PS)
Insole:	
Footbed supplied:	Dry'n Air Comfort Cube
Other usable Footbeds (certified):	Dry'n Air Comfort Plus; Dry'n Air Omnia ESD; Dry'n Air Scan&Fit Omnia; Dry'n Air Omnia ESD Weareco; 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
ESD Footwear	Sole electrical ground resistance (resistance of the whole worn footwear / metal floor)	89,6 MΩ	< 1,00 x 10 ⁹ Ω	CEI EN 61340-5-1
	Sole electrical transversal resistance (footwear resistance)	74,1 MΩ	≤ 1,00 x 10 ⁸ Ω	CEI EN 61340-5-1
	Chargeability	9,1 V	< 100 V	CEI EN 61340-5-1

Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
Aluminium toe-cap	Compression Resistance (15 kN)	19,5 mm	≥14,0 mm	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Heel	0,50	≥ 0,31	5.3.5.2
	•Ceramic + Det. + Forepart	0,52	≥ 0,36	5.3.5.2
	•Ceramic + Glycerin (SR) - Heel	0,30	≥ 0,19	6.2.10.1
	•Ceramic + Glycerin (SR) - Forepart	0,29	≥ 0,22	6.2.10.1
Fresh'n Flex Plus Super Light (PS)	Puncture resistance. 20345:2022	1321 N	Average value ≥1100N; Single value ≥950N	6.2.1.1.4
Footwear with insole (A)	Antistatic properties			
	Electrical resistance	dry 82,7 - wet 63,3 MΩ	0,1 ÷ 1000 MΩ	6.2.2.2
Energy absorption (E)	Shock-absorption in the heel region	29 J	≥ 20 J	6.2.4
(SC)	•Abrasion resistance of the toe region	Comforms	After 8000 cycles, the SC has no holes	6.2.9

Upper

Materials	Description	Value	Minimum Requirement	Norm
Technical fabric	Tear Strengh	90 N	≥ 60 N	5.4.3
	Water vapour permeability	7,7 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water vapour coefficient	69,8 mg/cm ²	≥ 15mg/cm ²	5.4.6

Lining

Materials	Description	Value	Minimum Requirement	Norm
Hi-tech 3D fabric	Tear Strenght	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 ² h	≥ 2,0 mg/cm ² h	5.5.3

Sole

Materials	Description	Value	Minimum Requirement	Norm
	Cleat height	3,0 mm	≥ 2,5 mm	5.8.2.3
	Tear Strenght	15,7 kN/m	≥ 5 kN/m	5.8.3
	Abrasion resistance	69 mm ³	≤ 150 mm ³	5.8.4
	Flexural strength after 30.000 cycles	1,0 mm	≤ 4mm	5.8.5
	Flexural strength after 150.00 cycles (hydrolysis)	1,5 mm	≤ 6 mm	5.8.6
	Upper/outsole bond strenght	4,8 N/m	≥ 4N/mm; *≥ 3 mm with sole tear*	5.8.7
	HRO Contact heat resistance (300°C)	No damage	No damage (melting, breaking)	6.4.1
	FO Fuel resistance (volume changes)	5,9 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



The content of this technical sheet is copyright of BASE PROTECTION Unipersonale Srl. Reproduction, even partial, of texts and / or images presented here is expressly forbidden.

Technical sheet subject to revision at the same time as the certificate is issued. Typographical errors excepted. BASE PROTECTION reserves the right to modify the content of the technical sheet.