

## TECHNICAL SHEET

**Article:** B0323 KATE

**Norm:** EN ISO 20345:2022

**Safety Class:** S3L FO SR



<b>Sole</b>	S15 GRAY
<b>Weight, size 37:</b>	474 g
<b>Footwear height:</b>	80 mm
<b>Width:</b>	9
<b>Construction / Sole:</b>	STROBEL; AirTech/Tpu-Skin injected outsole
<b>Anti-perforation insert</b>	Fresh'n Flex ballistic fabric
<b>Insole:</b>	
<b>Footbed supplied:</b>	Dry'n Air Gel
<b>Other usable Footbeds (certified):</b>	Secosol; Secosol Dynamic

## Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
Steel toe-cap	Impact Resistance (200J)	13.5 mm	13.0 mm	5.3.2.3
	Compression Resistance (15 kN)	17.0 mm	13,0 mm	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Heel	0,39	≥ 0.31	5.3.5.2
	•Ceramic + Det. + Forepart	0,41	≥ 0,36	5.3.5.2
	•Ceramic + Glycerin (SR) - Heel	0,30	≥ 0,19	6.2.10.1
Fresh'n Flex (PL)	•Ceramic + Glycerin (SR) - Forepart	0,25	≥ 0,22	6.2.10.1
	Puncture resistance. 20345:2022	No perforation	No perforation at ≥1100N	6.2.1.1.3
Footwear with insole (A)	Antistatic properties			
	Electrical resistance	wet 291 MΩ- dry 534 MΩ	0,1 ÷ 1000 MΩ	6.2.2.2
Energy absorption (E)	Shock-absorption in the heel region	31 J	≥ 20 J	6.2.4

## Upper

Materials	Description	Value	Minimum Requirement	Norm
Split leather	Tear Strenght	149 N	≥ 120 N	5.4.3
	Tensile Strenght	17 N/mm <sup>2</sup>	≥ 15 N/mm <sup>2</sup>	5.4.4
	Water vapour permeability	4,8 mg/cm <sup>2</sup> h	≥ 0,8 mg/cm <sup>2</sup> h	5.4.6
	Water vapour coefficient	40,3 mg/cm <sup>2</sup>	≥ 15mg/cm <sup>2</sup>	5.4.6
	Chromium VI content (if leather)	Not detectable	Not detectable	6.11
	Water passed	0,0 g	≤ 0,2 g	6.3
	Water absorption	10,4 %	≤ 30%	6.3

## 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 <sup>2</sup> h	≥ 2,0 mg/cm <sup>2</sup> h	5.5.3	

## Sole

Materials	Description	Value	Minimum Requirement	Norm
AirTech + Tpu-Skin anti-fatigue sole	Cleat height	4,4 mm	≥ 2,5 mm	5.8.1.3
	Tear Strenght	10,7 kN/m	≥ 5 kN/m	5.8.2
	Abrasion resistance	51 mm <sup>3</sup>	≤ 250 mm <sup>3</sup>	5.8.3
	Flexural strength after 30,000 cycles	0,6 mm	≤ 4mm	5.8.4
	Flexural strength after 150.00 cycles (hydrolysis)	1.0 mm	≤ 6 mm	5.8.5
	Upper/outsole bond strenght	N/A	≥ 4N/mm; ≥ 3 mm with sole tear	5.8.6
	FO Fuel resistance (volume changes)	3,3 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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