

## TECHNICAL SHEET



**Article:** B0982A DIONE

**Norm:** EN ISO 20345:2022

**Safety Class:** S3L FO SR

<b>Sole</b>	S29 BLACK
<b>Weight, size 42:</b>	510 gr
<b>Footwear height:</b>	90 mm
<b>Width:</b>	12
<b>Construction / Sole:</b>	STROBEL; single density AirTech injected outsole
<b>Anti-perforation insert</b>	Fresh'n Flex ballistic fabric
<b>Insole:</b>	
<b>Footbed supplied:</b>	
<b>Other usable Footbeds (certified):</b>	Dry'n Air Gel; Dry'n Air Omnia; Dry'n Air Scan&Fit Omnia; Secosol; Secosol Dynamic

## Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
SlimCap toe-cap	Impact Resistance (200J)	15,0 mm	≥ 14,0 mm	5.3.2.3
	Compression Resistance (15 kN)	15,5 mm	≥14,0 mm	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Heel	0,46	≥ 0,31	5.3.5.2
	•Ceramic + Det. + Forepart	0,40	≥ 0,36	5.3.5.2
	•Ceramic + Glycerin (SR) - Heel	0,22	≥ 0,19	6.2.10.1
	•Ceramic + Glycerin (SR) - Forepart	0,25	≥ 0,22	6.2.10.1
Outsole (SRC)	Slip resistance 20345:2011			
	•SRA – Heel (angle of 7°)	0,45	≥ 0,28	5.3.5.2
	•SRA – Flat (full sole)	0,42	≥ 0,32	5.3.5.2
	•SRB – Heel (angle of 7°)	0,23	≥ 0,13	5.3.5.3
	•SRB – Sole (Full sole)	0,24	≥ 0,18	5.3.5.3
Fresh'n Flex (P)	Puncture resistance 20345:2011	No perforation	≥ 1100 N	5.2.1.1.2
Fresh'n Flex (PL)	Puncture resistance. 20345:2022	No perforation	No perforation at ≥1100N	6.2.1.1.3
Footwear with insole (A)	Antistatic properties			
	Electrical resistance	wet $5,5 \times 10^8 \Omega$ - dry $2,4 \times 10^8 \Omega$	$1,00 \times 10^5 \Omega$ - $1,00 \times 10^9 \Omega$	6.2.2.2
Energy absorption (E)	Shock-absorption in the heel region	32 J	≥ 20 J	6.2.4

## Upper

Materials	Description	Value	Minimum Requirement	Norm
Nabutek suedeleather	Tear Strenght	225 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	8,8 mg/cm <sup>2</sup> h	≥ 0,8 mg/cm <sup>2</sup> h	5.4.6
	Water vapour coefficient	59,3 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	15 %	≤ 30%	6.3

## Lining

Materials	Description	Value	Minimum Requirement	Norm
Hi-tech 3D fabric	Tear Strenght	47 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	21,1 mg/cm <sup>2</sup> h	≥ 2,0 mg/cm <sup>2</sup> h	5.5.3
	Chromium VI content (if leather)	N/A	Not detectable	5.5.5

## Sole

Materials	Description	Value	Minimum Requirement	Norm
Single density AirTech outsole	Cleat height	4,6 mm	≥ 2,5 mm	5.8.1.3
	Tear Strenght	10,0 kN/m	≥ 5 kN/m	5.8.2
	Abrasion resistance	172 mm <sup>3</sup>	≤ 250 mm <sup>3</sup>	5.8.3
	Flexural resistance after 30,000 cycles	2,2 mm	≤ 4,0 mm	5.8.4
	Flexural resistance after 150,000 cycles (hydrolysis)	2,5 mm	≤ 6,0 mm	5.8.5
	Upper/outsole bond strenght	N/A	> 4 N/mm; ≥ 3 N/mm with sole tear*	5.8.6
	Hydrocarbon resistance FO (volume change)	4 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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