

TECHNICAL SHEET

Article: B0177 CHESTER TOP

Norm: EN ISO 20345:2022

Safety Class: S3L FO SR

Sole	S55 BLACK
Weight, size 42:	654 g
Footwear height:	140 mm
Width:	11
Construction / Sole:	STROBEL; single density AirTech injected outsole
Anti-perforation insert	Fresh'n Flex ballistic fabric
Insole:	
Footbed supplied:	Dry'n Air Omnia Comfort Plus
Other usable Footbeds (certified):	B07; 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
Steel toe-cap	Impact Resistance (200J)	16,0 mm	≥ 14,0 mm	5.3.2.3
	Compression Resistance (15 kN)	19,0 mm	≥14,0 mm	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Heel	0,36	≥ 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
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	dry 313 MΩ- wet 238 MΩ	0,1 ÷ 1000 MΩ	6.2.2.2
Energy absorption (E)	Shock-absorption in the heel region	27 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 ²	≥ 15 N/mm ²	5.4.4
	Water vapour permeability	8,8 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water vapour coefficient	59,3 mg/cm ²	≥ 15mg/cm ²	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	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
Single density AirTech outsole	Cleat height	3,9 mm	≥ 2,5 mm	5.8.1.3
	Tear Strenght	11,7 kN/m	≥ 5 kN/m	5.8.2
	Abrasion resistance	85 mm ³	≤ 250 mm ³	5.8.3
	Flexural resistance after 30,000 cycles	0,8 mm	≤ 4,0 mm	5.8.4
	Flexural resistance after 150,000 cycles (hydrolysis)	1,1 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)	3 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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