

TECHNICAL SHEET

Article: **B1605 T-ROBUST**

Norm: **EN ISO 20345:2022**

Safety Class: **S7S HRO CI HI LG SC FO SR**

Sole	S60 BLACK
Weight, size 42:	770 g
Footwear height:	145 mm
Width:	12
Construction / Sole:	STROBEL; double density PU/Rubber injected outsole
Anti-perforation insert	Fortrex Insert
Insole:	Non-woven fabric
Footbed supplied:	Dry'n Air Omnia
Other usable Footbeds (certified):	Dry'n Air Gel; Dry'n Air Scan&Fit Omnia; Secosol; Secosol Complete; 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. - Hill	0,47	≥ 0,31	5.3.5.2
	•Ceramic + Det. + Tip	0,38	≥ 0,36	5.3.5.2
	•Ceramic + Glycerin (SR) - Hill	0,31	≥ 0,19	6.2.10.1
	•Ceramic + Glycerin (SR) - Tip	0,25	≥ 0,22	6.2.10.1
Outsole (SRC)	Slip resistance 20345:2011			
	•SRA – Hill (angle of 7°)	0,45	≥ 0,28	5.3.5.2
	•SRA – sole (full sole)	0,50	≥ 0,32	5.3.5.2
	•SRB – Hill (angle of 7°)	0,20	≥ 0,13	5.3.5.3
	•SRB – Sole (Full sole)	0,26	≥ 0,18	5.3.5.3
Fortrex	Puncture resistance 20345:2011			6.2.1.1.1
Fortrex (PS)	Puncture resistance 20345:2022	1418 N	Valor medio ≥ 1100N; Ogni singolo valore ≥ 950N	6.2.1.1.4
Footwear with insole (A)	Antistatic properties			
	• Electrical resistance		≥ 10 ⁵ Ω, ≤ 10 ⁹ Ω	6.2.2.2
Thermal insulation	Thermal insulation			
	• Insole Temp. Increase (HI)	11,0 °C	≤ 22 °C	6.2.3.1
	• Decreased Insole Temp. (CI)	6,0 °C	≤ 10°C	6.2.3.2
Energy absorption (E)	Shock-absorption in the heel region	30 J	≥ 20 J	6.2.4
(WR)	Resistance to water penetration			6.2.5
(SC)	•Abrasion resistance of the toe cover	Conforme	Dopo 8000 cicli, lo SC non deve presentare fori.	6.2.9

Upper

Materials	Description	Value	Minimum Requirement	Norm
Full grain waxy leather + H2St0p membrane	Tear resistance	228 N	≥ 120 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm ²	5.4.4
	Water steam permeability	2,5 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water steam coefficient	21,9 mg/cm ²	≥ 15 mg/cm ²	5.4.6
	Chromium VI content (if leather)			6.11
	Water passed	0,0 g	≤ 0,2 g	6.3
	Water absorption	4 %	≤ 30%	6.3

Lining

Materials	Description	Value	Minimum Requirement	Norm
Primaloft lining	Tear resistance	64 N	≥ 15 N	5.5.1
	Abrasion resistance			5.5.2
				5.5.2
	Water steam permeability	23,5 mg/cm ² h	≥ 2,0 mg/cm ² h	5.5.3
	Chromium VI content (if leather)	N/A		5.5.5

Sole

Materials	Description	Value	Minimum Requirement	Norm
Double Density Sole	Profile height	5,1 mm	≥ 2,5 mm	5.8.1.3
	Tear resistance	10,8 kN/m	≥ 8 kN/m	5.8.2
	Abrasion resistance	128 mm ³	≤ 150 mm ³	5.8.3
	Notches increase after 30.000 cycles	1,9 mm	≤ 4,0 mm	5.8.4
	Notches increase after 150.00 cycles (hydrolysis)	3,2 mm	≤ 6,0 mm	5.8.5
	Tread- Midsole detachment	4,3 * N/mm		5.8.6
	HRO Contact heat resistance (300°C)			6.4.1
	FO Fuel resistance (volume changes)	9 %	≤ 12%	6.4.2
	(LG) Geometrical Prescriptions 20345:2022			6.4.3

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



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