TECHNICAL SHEET

Article: **B1236A (EH) i-OMEGA TOP EH**

Norm: **EN ISO 20345:2022**

Safety Class: **SB E WPA PS CI FO SR**

Sole	S40 GREY
Weight, size 42:	593 g
Footwear height:	130 mm
Width:	11,5
Construction / Sole:	STROBEL; AirTech/Tpu-Skin injected insulating outsole
Anti-perforation insert	Fresh'n Flex EH (PS)
Insole:	
Footbed supplied:	Dry'n Air Comfort Plus EH
Other usable Footbeds (certified):	Dry'n air Omnia insulation

TEMPORARY

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)	16,5 mm	≥14,0 mm	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Heel	0,48	≥ 0.31	5.3.5.2
	•Ceramic + Det. + Forepart	0.40	≥ 0,36	5.3.5.2
	•Ceramic + Glycerin (SR) - Heel	0,33	≥ 0,19	6.2.10.1
	•Ceramic + Glycerin (SR) - Forepart	0,36	≥ 0,22	6.2.10.1
Fresh'n Flex EH (PS)	Puncture resistance. 20345:2022	1300 N	Average value ≥1100N; Single value ≥950N	6.2.1.1.4
Thermal insulation	Thermal insulation			
	● Decreased Insole Temp. (CI)	7,0 °C	≤ 10°C	6.2.3.2
Energy absorption (E)	Shock-absorption in the heel region	33 J	≥ 20 J	6.2.4
(EH)	Electric Hazard Resistant Footwear	0.78 mA	≤ 1,0 mA (18 kV at 60 Hz, 1 min)	ASTM F2412-18

Upper

Materials	Description	Value	Minimum Requirement	Norm
Nabutek suedeleather	Tear Strenght	225 N	≥ 120 N	5.4.3
	Tensile Strenght	17 N/mm²	≥ 15 N/mm²	5.4.4
	Water vapour permeability	8,8 mg/cm² h	≥ 0,8 mg/cm² h	5.4.6
	Water vapour coefficient	59,3 mg/cm²	≥ 15mg/cm²	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/cm² h	≥ 2,0 mg/cm² h	5.5.3

Sole

Materials	Description	Value	Minimum Requirement	Norm
AirTech et Tpu Skin Anti-Fatigue insulating	Cleat height	4,5 mm	≥ 2,5 mm	5.8.1.3
	Tear Strenght	8,0 kN/m	≥ 8 kN/m	5.8.2
	Abrasion resistance	100 mm^3	≤ 250 mm^3	5.8.3
	Flexural resistance after 30,000 cycles	2,0 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)	9 %	≤ 12%	6.4.2

Issued by: Innovation Director Ing. Cataldo De Luca **Signature**