

TECHNICAL SHEET



Article:	B0870B BE-EXTREME W
Norm:	UNI EN ISO 20345:2012
Safety Class:	S3 CI SRC
Footwear height:	Mod. C, H 245 mm (≥ 178 mm; Rif. EN 20345-5.2.2)
Width:	12
Weight (size 42)	725 gr.
Average weight of the insole	15 gr.
Construction:	STROBEL; INJECTED SOLE PU/TPU SKIN, TECHNOLOGY 4X4
Cleaning and maintenance:	Use only soft brushes and water. Do not use substances like alcohol, thinners, gasoline, oil or any other chemicals. Keep the footwear, dry and clean, in a proper place at room temperature.
Suggested fields:	Construction, heavy industry, agriculture, handicraft.

Entirefootwear: components				
Component	Description	Value	Norm Requirements	EN 20345
Metal-free SLIMCAP toe-cap	Impact resistance (200 J) • Free height after impact Compression resistance (15 kN) • Free height after compression	15,5 mm 18,5 mm	≥ 14 mm ≥ 14 mm	5.3.2.3 5.3.2.4
Sole (SRC)	Slip resistance • SRA – sole (entire sole) • SRA – heel (angle of 7°) • SRB – sole (entire sole) • SRB – heel (angle of 7°)	0,48 0,42 0,28 0,15	≥ 0,32 ≥ 0,28 ≥ 0,18 ≥ 0,13	5.3.5.4 5.3.5.4 5.3.5.4 5.3.5.4
Fresh'n Flex (P)	Puncture resistance	No perforation	≥ 1100 N	6.2.1
Footbed (A)	Antistatic properties • Electrical resistance	Dry: 3,1 x 10 ⁸ Ω Humid: 8,5 x 10 ⁸ Ω	≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω ≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω	6.2.2.2 6.2.2.2
Sole/upper Heat (HI) Cold (CI)	Thermal insulation • Insole temperature increase • Insole temperature decrease •	N/A 6,0° C	≤ 22°C ≤ 10°C	6.2.3.1 6.2.3.2
Heel (E)	Shock-absorption in the heel region	36 J	≥ 20 J	6.2.4
(WR)	Water resistance (water absorption)	N/A	≤3 cm ² wet area after 4800 cycles	6.2.5
(M)	Metatarsal protection	N/A	≥ 40 mm	6.2.6

Upper				
Component	Description	Value	Norm requirements	EN 20345
Waxy grain leather	Tear resistance	133 N	≥ 120 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm ²	5.4.4
	Water steam permeability	4,5 mg/cm ² h	≥ 0,8mg/cm ² h	5.4.6
	Water steam coefficient	44,0 mg/cm ²	≥ 15 mg/cm ²	5.4.6
	pH value	4,0	≥ 3,2	5.4.7
	Chromium VI	Not detected	Not detectable	5.4.9
	Water passed	0,0 g	≤ 0.2 g	6.3
	Water absorption	8,4%	≤ 30%	6.3

Lining				
Component	Description	Value	Norm Requirements	EN 20345
EcoWool	Tear Resistance	16 N	≥ 15 N	5.5.1
	Abrasion resistance	<ul style="list-style-type: none"> Dry: the surface shows no holes Humid: the surface shows no holes 	No holes till 51.200 cycles	5.5.2
	Water vapour permeability	71,6 mg/cm ² h	≥ 2,0 mg/cm ² h	5.5.3
	pH value	N/A	Not detectable	5.5.4
	Chromium VI	N/A	Not detectable	5.5.5

Insole				
Component	Description	Value	Norm requirements	EN 20345
Fresh'n Flex	Thickness	3,7 mm	≥ 2,0 mm	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	86 mg/cm ²	≥ 70 mg/cm ²	5.7.3
	Water release	94%	≥ 80 %	5.7.3
	Abrasion resistance (after 400 cycles)	No damage	Damage ≤ to norms reference	5.7.4.1
	Chromium VI	N/A	Not detectable	5.7.5

Removable footbed				
Component	Description	Value	Norm requirements	EN 20345
Breathable technical textile and expanded polymer material	Thickness	3±0,5 mm (tip)	N/A	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	Permeable	Permeable or ≥ 70mg/cm ²	5.7.3
	Water release	Permeable	Permeable or ≥ 80%	5.7.3
	Abrasion resistance	No damage	Dry: no holes till 25600 cycles humid: no holes till 12800	5.7.4.2
	Chromium VI	N/A	Not detectable	5.7.5

*Footwear also certified with DRY'N AIR OMNIA, DRY'N AIR SCAN&FIT OMNIA, DRY'N AIR GEL, SECOSOL and SECOSOL COMPLETE footbeds

Sole				
Component	Description	Value	Norm requirements	EN 20345
Midsole PU;	Sole thickness without profiles	5,2 mm	≥ 4 mm	5.8.1.1
	Profile height	4,0 mm	≥ 2,5 mm	5.8.1.3
	Tear resistance	8,2 kN/m	≥ 8 kN/m	5.8.2
	Abrasion resistance	<ul style="list-style-type: none"> Relative volume loss 	≤ 250 mm ³	5.8.3
Outsole TPU-SKIN (high density TPU)	Flexion resistance	<ul style="list-style-type: none"> Notches increase after 30.000 cycles 	≤ 4 mm	5.8.4
	Hydrolysis	<ul style="list-style-type: none"> Notches increase after 150.00 cycles 	≤ 6mm	5.8.5
	Outsole-Midsole detachment	4,2*	≤ 4 N/mm; (*) ≤ 3 N/mm with sole ripping	5.8.6
	(HRO) (Contact heat resistance 300°C)	N/A	No damage (melting, breaking)	6.4.1
	(FO) Fuel resistance (volume variations)	-0,5%	≤ 12%	6.4.2

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