

TECHNICAL SHEET



Article:	B0866 BE-BROWNY
Norm:	UNI EN ISO 20345:2012
Safety Class:	S3 CI SRC
Footwear height:	Mod. A, H 85 mm (<113 mm; Réf. EN 20345-5.2.2)
Width:	12
Weight size 42:	555 g
Size sole:	15 g
Construction:	STROBEL; INJECTED SOLE PU-TPU SKIN 4X4 TECHNOLOGY
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, construction site, crafts.

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	6.2.1.1.2
Footbed (A)	Antistatic properties • Electrical resistance	Dry 3,1 x 10 ⁸ Ω Humid 8,5 x 10 ⁷ 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) Cold -30°C	Thermal insulation • Insole temperature increase • Insole temperature decrease Insole temperature decrease	N/A 7,0° 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) (M)	Water resistance (water absorption) Metatarsal protection	N/A N/A	≤ 3 cm ² ≥ 40 mm	6.2.5 6.2.6

Upper				
Component	Description	Value	Norm requirements	EN 20345
Greased full-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	≥ 0,8 mg/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	Non	5.4.9
	Water passed	0,0 g	≤ 0.2 g	6.3
	Water absorption	8,4%	≤ 30%	6.3



Base Protection Srl
Via dell'Unione Europea, 61
Italy - 76121 Barletta (BT)
P.I. 06617940728

P +39 0883 334811
F +39 0883 334824
E info@basepro.it
W www.baseprotection.com

Lining				
Component	Description	Value	Norm Requirements	EN 20345
Hi-tech 3D fabric	Tear Resistance	47 N	≥ 15 N	5.5.1
	Abrasion resistance	<ul style="list-style-type: none"> Dry: the surface shows no holes 	No holes till 51.200 cycles	5.5.2
		<ul style="list-style-type: none"> Humid: the surface shows no holes 	No holes till 25.600 cycles	5.5.2
	Water vapour permeability	21,1 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
Anatomical, breathable, made of fabric and expanded polymer material	Thickness	3,5±0,5 mm	N/A	5.7.1
		N/A		5.7.2
	pH value	Permeable	Not detectable	5.7.3
	Water absorption	Permeable	Permeable or ≥ 70mg/cm ²	5.7.3
	Water release	No damage	Permeable or ≥ 80%	5.7.4.2
	Abrasion resistance	N/A	Dry: no holes till 25600 cycles humid: no holes till 12800	5.7.5

* Shoe certified even with soles: DRY'N AIR OMNIA, DRY'N AIR SCAN&FIT OMNIA, DRY'N AIR GEL, SECOSOL and SECOSOL COMPLETE.

Sole					
Component	Description	Value	Norm requirements	EN 20345	
Midsole PU; TPU SKIN tread (high density TPU)	Sole thickness without profiles	5,2 mm	≥ 4 mm	5.8.1.1	
	Profile height	4,0 mm	≥ 2,5mm	5.8.1.3	
	Tear resistance	8,2 kN/m	≥ 5 kN/m	5.8.2	
	Abrasion resistance	<ul style="list-style-type: none"> Relative volume loss 	134 mm ³	≤ 250 mm ³	5.8.3
	Flexion resistance	<ul style="list-style-type: none"> Notches increase after 30.000 cycles 	2,5 mm	≤ 4 mm	5.8.4
	Hydrolysis	<ul style="list-style-type: none"> Notches increase after 150.00 cycles 	4,1 mm	≤ 6 mm	5.8.5
	Outsole-Midsole detachment		4,2 N/mm	≤ 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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