TECHNICAL SHEET

Article:	**B0888N BE-UNIFORM TOP**
Norm:	**UNI EN ISO 20345:2012**
Safety Class:	**S3 HRO CI HI SRC**
Footwear height:	**Mod. B, H 140 mm (≥113 mm; Rif. EN 20345-5.2.2)**
Width:	**12**
Construction:	**STROBEL; DUAL DENSITY**
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, agriculture, miner, extractive, heavy industry, light industry, shipbuilding, big plants, handicraft.**

Entirefootwear: components

Component	Description	Value	Norm Requirements	EN 20345
Metal-free	Impact resistance (200 J)			
SLIMCAP	• Free height after impact	14,5mm	≥ 14 mm	5.3.2.3
toe-cap	Compressionresistance (15 kN)			
	• Free height after compression	14,5mm	≥ 14 mm	5.3.2.4
Sole (SRC)	Slip resistance			
	• SRA – sole (entire sole)	0,62	≥ 0,32	5.3.5.4
	• SRA – heel (angle of 7°)	0,53	≥ 0,28	5.3.5.4
	• SRB – sole (entire sole)	0,31	≥ 0,18	5.3.5.4
	• SRB – heel (angle of 7°)	0,27	≥ 0,13	5.3.5.4
Fresh'n Flex(P)	Puncture resistance	No perforation	≥ 1100 N	6.2.1
Footbed (A)	Antistatic properties			
	• Electrical resistance	Dry 7,28 x $10^8\Omega$	≥ $10^5\Omega$, ≤ $10^9\Omega$	6.2.2.2
		Humid 1,34 x $10^8\Omega$	≥ $10^5\Omega$, ≤ $10^9\Omega$	6.2.2.2
Sole/upper	Thermal insulation			
Heat (HI)	• Insole temperature increase	13° C	≤ 22°C	6.2.3.1
Cold (CI)	• Insole temperature decrease	7,5°C	≤ 10°C	6.2.3.2
Heel (E)	Shock-absorption in the heel region	31 J	≥ 20 J	6.2.4
(WR)	Water resistance (water absorption)	N/A	≤3 cm^2	6.2.5
(M)	Metatarsal protection	N/A	≥ 40 mm	6.2.6

Upper

Component	Description	Value	Norm requirements	EN 20345
	Tear resistance	186 N	≥120 N	5.4.3
Full grain	Traction resistance	N/A	≥ 15 N/mm^2	5.4.4
leather	Water stream permeability	1,5 mg/cm^2 h	≥0,8 mg/cm^2 h	5.4.6
	pH value	5	≥ 3,2	5.4.7
	Chromium VI	N/A	Not detectable	5.4.9
	Water passed	0,0 g	≤ 0.2 g	6.3
	Water absorption	22 %	≤ 30%	6.3

weareco
Il marchio green di Base Protection

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
3D Fabric	Tear Resistance	45 N	≥ 15 N	5.5.1
	Abrasion resistance	• Dry: the surface shows no holes	No hole till 51.200 cycles	5.5.2
		• Humid: the surface shows no holes	No hole till 25.600 cycles	5.5.2
	Water steam release	21 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	82 mg/cm^2	≥ 70 mg/cm^2	5.7.3
	Water release	90 %	≥ 80 %	5.7.3
	Abrasion resistance (after 400 cycles)	No damage	Damage≤ to norms reference	5.7.4.1
	Chromium VI	N/A	Notdetectable	5.7.5

Removable footbed

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

Sole

Component	Description	Value	Norm requirements	EN 20345
Midsole PU; Rubber Outsole	Sole thickness without profiles	7,1 mm	≥ 4 mm	5.8.1.1
	Profile height	3,5 mm	≥ 2,5 mm	5.8.1.3
	Tear resistance	9,5 kN/m	≥ 8 kN/m	5.8.2
	Abrasion resistance • Relative volume loss	110 mm^3	≤ 250 mm^3	5.8.3
	Flexion resistance • Notches increase after 30.000 cycles	2,2 mm	≤ 4 mm	5.8.4
	Hydrolysis • Notches increase after 150.00 cycles	3,2 mm	≤ 6mm	5.8.5
	Detachment outsole-midsole	3,7 *	≤ 4 N/mm; (*) ≤ 3 N/mm with sole ripping	5.8.6
	(HRO) (Contact heat resistance 300°C)	No damage	No damage (melting, breaking)	6.4.1
	(FO) Fue lresistance (volume changes)	4,6 %	≤ 12%	6.4.2

Date: 29/05/2017

Issued by: Resp. technician Eng. Cataldo De Luca

Signature:

weareco
Il marchio green di Base Protection

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