TECHNICAL SHEET

Article:	**B0251 PIXEL**
Norm:	**UNI EN ISO 20345:2012**
Safety Class:	**S1P SRC**
ESD protection for electronic devices	
Footwear height:	**Mod. A, H 85 mm (< 113 mm, Ref. EN 20345-5.2.2)**
Width:	**11**
Construction:	**STROBEL; DRY'N AIR GEL, BIDENSITY INJECTED SOLE**
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 :	**Building, mechanics, light industry, logistics.**

Entire footwear: components

Component	Description	Value	Norm Requirements	EN 20345
Aluminium toe-cap	Impact resistance(200 J)			
	• Free height after impact	14 mm	≥ 14 mm	5.3.2.3
	Compression resistance (15 kN)			
	• Free height after compression	15 mm	≥ 14 mm	5.3.2.4
Sole (SRC)	Slip resistance			
	• SRA – Sole (entire sole)	0,34	≥ 0,32	5.3.5.4
	• SRA – Heel (Angle of 7°)	0,30	≥ 0,28	5.3.5.4
	• SRB – Sole (entire sole)	0,24	≥ 0,18	5.3.5.4
	• SRB – Heel (Angle of 7°)	0,15	≥ 0,13	5.3.5.4
Fresh'n Flex (P)	Puncture resistance	No perforation	≥ 1100 N	6.2.1.1.2
Foot bed (A)	Antistatic properties			
	• Electrical resistance	Dry: 4,5 x 10^8 Ω	≥ 10^5Ω , ≤ 10^9Ω	6.2.2.2
		Humid: 2,33 x 10^8Ω	≥ 10^5Ω , ≤ 10^9Ω	6.2.2.2
Sole/Upper	Thermal insulation			
Heat (HI)	Insole temperature increase	N/A	≤ 22°C	6.2.3.1
Cold (CI)	Insole temperature release	N/A	≤ 10°C	6.2.3.2
Heel (E)	Shock-absorption in the heel region	29 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	198 N	≥ 120 N	5.4.3
	Traction resistance	21 N/mm^2	≥ 15 N/mm^2	5.4.4
Suede	Water steam permeability	3,5 mg/cm^2 h	≥0,8 mg/cm^2 h	5.4.6
Leather	pH value	4,05	≥ 3,2	5.4.7
	Chromium VI	Not detected	Not detectable	5.4.9
	Water passed	N/A	≤ 0,2 g	6.3
	Water absorption	N/A	≤ 30%	6.3

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Lining

Component	Description	Value	Norm Requirements	EN 20345
3D hi-tech Fabric	Tear resistance	45 N	≥ 15 N	5.5.1
	Abrasion resistance	• Dry : the surface shows no holes	No holes till 51.200 cycles	5.5.2
		• humid: the surface shows no holes	No holes till 25.600 cycles	5.5.2
	Water steam release	21,0 mg/cm² h	≥ 2,0 mg/cm² 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/cm²	≥ 70 mg/cm²	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	Not detectable	5.7.5

Removable footbed

Component	Description	Value	Norm Requirements	EN 20345
Dry'n Air gel	Thickness	3,5±0,5 mm	N/A	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	Permeable	Permeable or ≥ 70mg/cm²	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 cycles	5.7.4.2
	Chromium VI	N/A	Non detectable	5.7.5

Sole

Component	Description	Value	Norm Requirements	EN 20345
PU Midsole Outsole TPU SKIN: (TPU high density)	Sole thickness without profiles	7 mm	≥ 4 mm	5.8.1.1
	Profile height	3,0 mm	≥ 2,5 mm	5.8.1.3
	Tear resistance	6,9 kN/m	≥ 5 kN/m	5.8.2
	Abrasion resistance • relative volume loss	76 mm³	≤ 250 mm³	5.8.3
	Flexion resistance • Notches increase after 30.000 cycles	2,5 mm	≤ 4 mm	5.8.4
	• Hydrolysis	3 mm	≤ 6 mm	5.8.5
	Notches increase after 150.00 cycles	N/A	≥ 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 changes)	2,5 %	≤ 12%	6.4.2

Date: 20/06/2017

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