TECHNICAL SHEET

Article:	B0537 LITIO
Norm:	UNI EN ISO 20345:2012
Safety class:	S2 SRC
Footwear height:	Mod. A, H 77 mm (<113 mm, Rif. EN ISO 20345-5.2.2)
Width:	11
Construction:	STROBEL; DOUBLE DENSITY INJECTED SOLE – LIFE PLUS PU/TPU SKIN
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:	Food industry, chemical-pharmaceutical industry.

Entirefootwear: components

Component	Description	Value	Norm requirements	EN 20345
Steel 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)	0,42	≥ 0,32	5.3.5.4
	• SRA – heel (angle of 7°)	0,40	≥ 0,28	5.3.5.4
	• SRB – sole (entire sole)	0,19	≥ 0,18	5.3.5.4
	• SRB – heel (angle of 7°)	0,14	≥ 0,13	5.3.5.4
(P)	Puncture resistance	N/A	≥ 1100 N	6.2.1.1.2
Footbed (A)	Antistatic properties			
	• Electrical resistance	Dry: 6,25 x $10^8\Omega$	≥ $10^5\Omega$, ≤ $10^9\Omega$	6.2.2.2
		Humid: 2,43 x $10^8\Omega$	≥ $10^5\Omega$, ≤ $10^9\Omega$	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 decrease	N/A	≤ 10°C	6.2.3.2
Heel (E)	Shock-absorption in the heel region	33 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	110 N	≥ 60 N	5.4.3
Water-resistant	Traction resistance	N/A	≥ 15 N/mm^2	5.4.4
Microfibre	Water steam permeability	1,9 mg/cm^2 h	≥0.8 mg/cm^2 h	5.4.6
	pH value	N/A	≥ 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	23 %	≤ 30%	6.3

Lining

Component	Description	Value	Norm requirements	EN 20345
3D hi-tech fabrics	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

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		• Humid: the surface shows no holes	No holes till 25.600 cycles	5.5.2
	Water-steam permeability	21 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**
TNT	Thickness	2,5 mm	≥ 2,0 mm	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	95 mg/cm²	≥ 70 mg/cm²	5.7.3
	Water release	90%	≥ 80 %	5.7.3
	Abrasion resistance (after 400 cycles)	No damage	Damage≤ to normsreference	5.7.4.1
	Chromium VI	N/A	Not detectable	5.7.5

Removablefootbed				
Component	**Description**	**Value**	**Normrequirements**	**EN 20345**
Anatomical, breathable, textile and expanded polymeric material	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	5.7.4.2
	Chromium VI	N/A	Not detectable	5.7.5

Sole				
Component	**Description**	**Value**	**Norm requirements**	**EN 20345**
PU Midsole; TPU SKIN Outsole (high density TPU sole)	Sole thickness without profiles	8 mm	≥ 4 mm	5.8.1.1
	Profile height	4,5 mm	≥ 2,5mm	5.8.1.3
	Tear resistance	5,6 kN/m	≥ 5 kN/m	5.8.2
	Abrasion resistance • Relative volume loss	105 mm³	≤ 250 mm³	5.8.3
	Flexion resistance • Notches increase after 30.000 cycles	2,0 mm	≤ 4 mm	5.8.4
	Hydrolysis • Notches increase after 150.00 cycles	1,0 mm	≤ 6 mm	5.8.5
	Outsole-midsole detachment	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 variations)	0,8 %	≤ 12%	6.4.2

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