TECHNICAL SHEET

Article:	**B0473 METATARSAL**
Norm:	**UNI EN ISO 20345:2011**
Safety Class:	**S3 M SRC**
Footwear height:	**Mod. B, H 113 mm (≥113 mm; Rif. EN 20345-5.2.2)**
Width:	**11**
Construction:	**STROBEL; PU/GUM 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:	**Mechanic, Construction, light industry, services, shipbuildings, big plants, handicraft.**

Entirefootwear: components

Component	Description	Value	Norm Requirements	EN 20345
Steel	Impact resistance (200 J)			
Toe-cap	• Free height after impact	15 mm	≥ 14 mm	5.3.2.3
	Compression resistance (15 kN)			
	• Free height after compression	15,5 mm	≥ 14 mm	5.3.2.4
Sole (SRC)	Slip resistance			
	• SRA – sole (entire sole)	0,40	≥ 0,32	5.3.5.4
	• SRA – heel (angle of 7°)	0,38	≥ 0,28	5.3.5.4
	• SRB – sole (entire sole)	0,18	≥ 0,18	5.3.5.4
	• SRB – heel (angle of 7°)	0,15	≥ 0,13	5.3.5.4
Steel sheet (P)	Puncture resistance	1200 N	≥ 1100 N	6.2.1.1.2
Footbed (A)	Antistatic properties			
	• Electrical resistance	Dry: 5,84 x $10^8\Omega$	≥ $10^5\Omega$, ≤ $10^9\Omega$	6.2.2.2
		Humid: 1,28 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	36 J	≥ 20 J	6.2.4
(WR)	Water resistance (water absorption)	N/A	≤3 cm^2	6.2.5
(M)	Metatarsal protection	40,50 mm	≥ 40 mm	6.2.6

Upper

Component	Description	Value	Norm requirements	EN 20345
	Tear resistance	195 N	≥120 N	5.4.3
Full grain	Traction resistance	N/A	≥ 15 N/mm^2	5.4.4
	Water steam permeability	2,2 mg/cm^2 h	≥0,8 mg/cm^2 h	5.4.6
	pH value	4,1	≥ 3,2	5.4.7
	Chromium VI	Not detected	Not detectable	5.4.9
	Water passed	0,2 g	≤ 0.2 g	6.3
	Water absorption	8%	≤ 30%	6.3

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Lining

Component	Description	Value	Norm Requirements	EN 20345
	Tear Resistance	30 N	≥ 15 N	5.5.1
	Abrasione resistance	• Dry: the surface shows no holes	No holes till 51.200 cycles	5.5.2
3D Hi tech Fabric		• Humid: the surface shows no holes	No holes till 25.600 cycles	5.5.2
	Water steam release	7,2 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
	Thickness	2 mm	≥ 2,0 mm	5.7.1
	pH value	N/A	Not detectable	5.7.2
TNT	Water absorption	121 mg/cm²	≥ 70 mg/cm²	5.7.3
	Water release	97%	≥ 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
	Thickness	3,5±0,5 mm	N/A	5.7.1
Anatomical, breathable textile and expanded polymer material	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
	Sole thickness without profiles	10 mm	≥ 4 mm	5.8.1.1
	Profile height	4 mm	≥ 2,5 mm	5.8.1.3
	Tear resistance	5,5 kN/m	≥ 5 kN/m	5.8.2
PU Midsole; TPU SKIN Outsole (High density TPU)	Abrasion resistance • Relative volume loss	38 mm³	≤ 250 mm³	5.8.3
	Flexion resistance • Notches increase after30.000 cycles	2,5 mm	≤ 4 mm	5.8.4
	Hydrolysis • Notches increase after 150.00 cycles	3,5 mm	≤ 6mm	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)	0,5 %	≤ 12%	6.4.2

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