

## TECHNICAL SHEET



Article: **B0951B IZAR TOP**  
 Norm: **UNI EN ISO 20345:2012**  
 Safety Class: **S3 CI SRC**

Footwear height: **Mod. B, H 125 mm (≥ 113 mm, Rif. EN 20345-5.2.2)**

Width: **12**

Construction: **STROBEL; PU SOLE MONODENSITY**

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: **Mechanics, building finishes, light industry, craftsman, automotive, automated lines, services.**

Entire footwear: components				
Component	Description	Value	Norm Requirements	EN 20345
Composit toe-cap	Impact resistance (200 J)			
SLIMCAP	<ul style="list-style-type: none"> <li>Free height after impact</li> </ul>	14,0 mm	≥ 14 mm	5.3.2.3
	<ul style="list-style-type: none"> <li>Compression resistance (15 kN)</li> </ul>			
	<ul style="list-style-type: none"> <li>Free height after compression</li> </ul>	14,5 mm	≥ 14 mm	5.3.2.4
Sole (SRC)	Slip resistance			
	<ul style="list-style-type: none"> <li>SRA – sole (entire sole)</li> </ul>	0,48	≥ 0,32	5.3.5.4
	<ul style="list-style-type: none"> <li>SRA – heel (angle 7°)</li> </ul>	0,45	≥ 0,28	5.3.5.4
	<ul style="list-style-type: none"> <li>SRB – sole (entire sole)</li> </ul>	0,22	≥ 0,18	5.3.5.4
	<ul style="list-style-type: none"> <li>SRB – heel (angle 7°)</li> </ul>	0,20	≥ 0,13	5.3.5.4
Fresh'nFlex (P)	Puncture resistance	No perforation	≥ 1100 N	6.2.1.1.2
Footbed(A)	Antistatic properties			
	<ul style="list-style-type: none"> <li>Electrical resistance</li> </ul>	Dry: 4,0 x 10 <sup>8</sup> Ω	≥ 10 <sup>5</sup> Ω , ≤ 10 <sup>9</sup> Ω	6.2.2.2
		Humid: 1,8 x 10 <sup>8</sup> Ω	≥ 10 <sup>5</sup> Ω , ≤ 10 <sup>9</sup> Ω	6.2.2.2
Sole/Upper	Thermal insulation			
Heat (HI)	<ul style="list-style-type: none"> <li>Insole temperature increase</li> </ul>	N/A	≤ 22°C	6.2.3.1
Cold (CI)	<ul style="list-style-type: none"> <li>Insole temperature decrease</li> </ul>	6,5°C	≤ 10°C	6.2.3.2
Heel (E)	Shock-absorption in the heel region	35 J	≥ 20 J	6.2.4
(WR)	Water resistance (Water absorption)	N/A	≤ 3 cm <sup>2</sup>	6.2.5
(M)	Metatarsal protection	N/A	≥ 40 mm	6.2.6

Upper				
Component	Description	Value	Norm Requirements	EN 20345
	Tear resistance	90 N	≥60 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm <sup>2</sup>	5.4.4
Microfibre	Water steam permeability	1,5 mg/cm <sup>2</sup> h	≥0.8 mg/cm <sup>2</sup> h	5.4.6
	pH value	N/A	≥ 3,2	5.4.7
	Chromium VI	N/A	Not detectable	5.4.9
	Water passed	0,1 G	≤ 0.2 g	6.3
	Water absorption	14 %	≤ 30%	6.3

Lining					
Component	Description	Value	Norm Requirements	EN 20345	
3D hi-tech fabric	Tear resistance	45 N	≥ 15 N	5.5.1	
	Abrasion resistance	<ul style="list-style-type: none"> <li>Dry : the surface shows no holes</li> <li>humid: the surface shows no holes</li> </ul>	No holes till 51.200 cycles	5.5.2	
	Water steam release	21,0 mg/cm <sup>2</sup> h	≥ 2,0 mg/cm <sup>2</sup> 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'nFlex	Thickness	3,7 mm	≥ 2,0 mm	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	82 mg/cm <sup>2</sup>	≥ 70 mg/cm <sup>2</sup>	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

Removablefootbed				
Component	Description	Value	Norm Requirements	EN 20345
Anatomical, breathable, textile and expanded polymeric material	Thickness	3,0±0,5 mm	N/A	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	Permeable	Permeable or ≥ 70mg/cm <sup>2</sup>	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	Not detectable	5.7.5

Sole					
Component	Description	Value	Norm Requirements	EN 20345	
PU MONODENSIY SOLE	Sole thickness without profiles	6,5 mm	≥ 4 mm	5.8.1.1	
	Profile height	4,5 mm	≥ 2,5 mm	5.8.1.3	
	Tear resistance	6,2 kN/m	≥ 5 kN/m	5.8.2	
	Abrasion resistance	<ul style="list-style-type: none"> <li>relative volume loss</li> </ul>	100 mm <sup>3</sup>	≤ 250 mm <sup>3</sup>	5.8.3
	Flexion resistance	<ul style="list-style-type: none"> <li>Notches increase after 30.000 cycles</li> </ul>	2,1 mm	≤ 4 mm	5.8.4
		<ul style="list-style-type: none"> <li>Hydrolysis</li> </ul>		≤ 6 mm	5.8.5
	Notches increase after 150.00 cycles	3 mm	≥ 4 N/mm;	5.8.6	
	Sole-Midsole detachment	N/A	(*) ≥ 3 N/mm with sole ripping		
	(HRO) Contact heat resistance (300°C)	N/A	No damage (melting, breaking)	6.4.1	
	(FO) Fuel resistance (volume variations)	6 %	≤ 12%	6.4.2	

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