

## TECHNICAL SHEET



Article:	<b>B0118 MOZART</b>
Norm:	<b>UNI EN ISO 20345:2011</b>
Safety Class:	<b>S3 SRC</b>
Footwear height:	<b>Mod. A, H 82 mm (&lt; 113 mm, Rif. EN 20345-5.2.2)</b>
Width:	<b>11</b>
Construction:	<b>STROBEL; BIDENSITY INJECTED SOLE</b>
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 environments:	<b>Mechanics, building, services, light industry, ship building, automotive.</b>

Entire footwear: components				
Component	Description	Value	Norm Requirements	EN 20345
Steel toe-cap	Impact resistance(200 J)			
	• Free height after impact	14,0 mm	≥ 14 mm	5.3.2.3
Sole (SRC)	Compression resistance (15 kN)			
	• Free height after compression	14,5 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
Fresh'n Flex (P)	Puncture resistance			
		No perforation	≥ 1100 N	6.2.1.1.2
Footbed (A)	Antistatic properties			
		• Electrical resistance	dry 8,27 x 10 <sup>8</sup> Ω humid 5,44 x 10 <sup>8</sup> Ω	≥ 10 <sup>5</sup> Ω , ≤ 10 <sup>9</sup> Ω ≥ 10 <sup>5</sup> Ω , ≤ 10 <sup>9</sup> Ω
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	34 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
Water-resistant grain leather	Tear resistance	170 N	≥120 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm <sup>2</sup>	5.4.4
	Water steam permeability	30,4 mg/cm <sup>2</sup> h	≥0.8 mg/cm <sup>2</sup> h	5.4.6
	pH value	3,8	≥ 3,2	5.4.7
	Chromium VI content	Not detected	Not detectable	5.4.9
	Water passed	0,1 g	≤ 0.2 g	6.3
	Water absorption	9 %	≤ 30%	6.3

Lining					
Component	Description	Value	Norm Requirements	EN 20345	
3D hi-tech Fabric	Tear resistance	30 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 permeability	7,2 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 content	N/A	Not detectable	5.5.5	

Insole				
Component	Description	Value	Norm Requirements	EN 20345
Fresh'nFlex	Thickness	3,5 mm	≥ 2,0 mm	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	98mg/cm <sup>2</sup>	≥ 70 mg/cm <sup>2</sup>	5.7.3
	Water release	92%	≥ 80 %	5.7.3
	Abrasion resistance (after 400 cycles)	No damage	Damage ≤ to norms reference	5.7.4.1
	Chromium VI content	N/A	Not detectable	5.7.5

Removable footbed				
Component	Description	Value	Norm Requirements	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/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 content	N/A	Not detectable	5.7.5

Sole					
Component	Description	Value	Norm Requirements	EN 20345	
Midsole: PU Outsole: TPU SKIN (TPU high density)	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	
	Abrasion resistance	<ul style="list-style-type: none"> <li>relative volume loss</li> </ul>	38 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>	2,5 mm	≤ 4 mm	5.8.4
	Hydrolysis	<ul style="list-style-type: none"> <li>Notches increase after 150.00 cycles</li> </ul>	3,5 mm	≤ 6 mm	5.8.5
	Detachment Midsole/Outsole	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)	0,5 %	≤ 12%	6.4.2	

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