

TECHNICAL SHEET



Article:	B1006A K-BALANCE
Norm:	UNI EN ISO 20345:2011
Safety Class:	S1P HRO SRC
Footwear height:	Mod. A, H 87 mm (< 113 mm; Rif. EN 20345-5.2.2)
Width:	11,5
Weight:	555 g
Construction:	STROBEL; CEMENTED DUAL DENSITY - PU/GUMMI
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:	Construction, light industry, automotive, automation, handicraft, services.

Entire footwear: components				
Component	Description	Value	Norm Requirements	EN 20345
Aluminium toe-cap	Impact resistance (200 J)	17 mm	≥ 14 mm	5.3.2.3
	• Free height after impact			
	Compression resistance (15 kN)	21 mm	≥ 14 mm	5.3.2.4
	• Free height after compression			
Sole (SRC)	Slip resistance			
	• SRA – sole (entire sole)	0,56	≥ 0,32	5.3.5.4
	• SRA – heel (angle of 7°)	0,36	≥ 0,28	5.3.5.4
	• SRB – sole (entire sole)	0,20	≥ 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
Footbed (A)	Antistatic properties	Electrical resistance		
			dry 5,82 x 10 ⁸ Ω	≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω
		humid 7,26 x 10 ⁷ Ω	≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω	6.2.2.2
Sole/upper	Thermal insulation			
	Heat (HI)	• Insole temperature increase	N/A	≤ 22°C
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 wetted area after 4800 cycles	6.2.5
(M)	Metatarsal protection	N/A	≥ 40 mm	6.2.6

Upper				
Component	Description	Value	Norm requirements	EN 20345
Technical textile	Tear resistance	75 N	≥ 60 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm ²	5.4.4
	Water stream permeability	3,7 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water vapor coefficient	22,6 mg/cm ²	≥ 15 mg/cm ²	5.4.6
	pH value	N/A	≥ 3,2	5.4.7
	Chromium VI	N/A	Not detectable	5.4.9
	Water passed	N/A	≤ 0.2 g	6.3
	Water absorption	N/A	≤ 30%	6.3

Lining				
Component	Description	Value	Norm Requirements	EN 20345
3D hi-tech Fabric	Tear Resistance	47 N	≥ 15 N	5.5.1
	Abrasion resistance	<ul style="list-style-type: none"> Dry: the surface shows no holes 	No holes till 51.200 cycles	5.5.2
		<ul style="list-style-type: none"> Humid: the surface shows no holes 	No holes till 25.600 cycles	5.5.2
	Water stream release	21,1 mg/cm ² h	≥ 2,0 mg/cm ² 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	86 mg/cm ²	≥ 70 mg/cm ²	5.7.3
	Water release	94 %	≥ 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 Omnia	Thickness	3,5 ± 0,5 mm (tip) 9 ± 0,5 mm (heel)	N/A	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	Permeable through the holes	Permeable or ≥ 70mg/cm ²	5.7.3
	Water release	Permeable through the holes	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

*Footwear also certified with DRY'N AIR SCAN&FIT OMNIA and DRY'N AIR GEL footbeds

Sole					
Component	Description	Value	Norm requirements	EN 20345	
Midsole PU;	Sole thickness without profile	6 mm	≥ 4 mm	5.8.1.1	
	Profile height	4 mm	≥ 2,5mm	5.8.1.3	
	Tear resistance	8,3 kN/m	≥ 8 kN/m	5.8.2	
	Abrasion resistance	<ul style="list-style-type: none"> Relative volume loss 	75 mm ³	≤ 250 mm ³	5.8.3
	Flexion resistance	<ul style="list-style-type: none"> Notches increase after 30.000 cycles 	1,5 mm	≤ 4 mm	5.8.4
Outsole GUMMI	Hydrolysis	<ul style="list-style-type: none"> Notches increase after 150.00 cycles 	2 mm	≤ 6mm	5.8.5
	Sole thickness without profile	4,7	≤ 4 N/mm; (*) ≤ 3 N/mm with sole ripping	5.8.6	
	(HRO) (Contact heat resistance 300°C)	No damage	No damage (melting, breaking)	6.4.1	
	(FO) Fuel resistance (volume changes)	2%	≤ 12%	6.4.2	

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