

TECHNICAL SHEET



Article:	B0323 KATE
Norm:	UNI EN ISO 20345:2012
Safety Class:	S3 SRC
Footwear height:	Mod. A, H 78 mm (tg.38<105 mm, Rif. EN 20345-5.2.2)
Width:	9
Construction:	STROBEL; BIDENSITY SOLE
Cleaning and maintenance:	Use only soft brushes and water. Do not use substances such as alcohol, thinners, gasoline, oil or any other chemicals. Keep the footwear, dry and clean, in a proper place at room temperature.
Suggested fields:	Services, light industry

Entire footwear: protections					
Component	Description	Value	Norm Requirements	EN 20345	
Steel	Impact resistance(200 J)				
	• Free height after impact	14 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)	0,46	≥ 0,32	5.3.5.4	
	• SRA – Heel (Angle of 7°)	0,37	≥ 0,28	5.3.5.4	
	• SRB – Sole (entire sole)	0,22	≥ 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 7.25 x 10 ⁸ Ω humid 1.16 x 10 ⁸ Ω	≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω ≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω	6.2.2.2 6.2.2.2
Sole/Upper	Thermal insulation				
		Heat (HI)	Insole temperature increase	N/A	≤ 22°C
	Cold (CI)	Insole temperature decrease	N/A	≤ 10°C	6.2.3.2
Heel (E)	Shock-absorption in the heel region	22 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
Water-resistant Suedeleather and technical textile	Tear resistance	168 N	≥120 N	5.4.3
	Traction resistance	16 N/mm ²	≥ 15 N/mm ²	5.4.4
	Water steam permeability	3,8 mg/cm ² h	≥0.8 mg/cm ² h	5.4.6
	pH value	4,05	≥ 3,2	5.4.7
	Chromium VI	Not relevant	No detectable	5.4.9
	Water passed	0,01	≤ 0.2 g	6.3
	Water absorption	7,3	≤ 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	• Dry : the surface shows no holes	No holes till 51.200 cycles	5.5.2
		• humid: the surface shows no holes	No holes till 25.600 cycles	5.5.2
	Water steam release	21 mg/cm ² h	≥ 2,0 mg/cm ² h	5.5.3
	pH value	N/A	No detectable	5.5.4
	Chromium VI	N/A	No 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	No detectable	5.7.2
	Water absorption	82 mg/cm ²	≥ 70 mg/cm ²	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	No detectable	5.7.5

Removable footbed				
Component	Description	Value	Norm requirements	EN 20345
Dry'n air gel	Thickness	3,5 ± 0,5 mm	N/A	5.7.1
	Ph value	N/A	No detectable	5.7.2
	Water absorption	Permeable	Permeable or ≥ 70mg/cm ²	5.7.3
	Water release	Permeable	Permeable or ≥ 80%	5.7.3
	Abrasion resistance	No damage	Dry No holes till 12.800 Cycles	5.7.4.2
	Chromium	N/A	25.600 cycles Humid no holes till 12.800 Cycles	5.7.4.2
			No detectable	5.7.5

Sole					
Component	Description	Value	Norm Requirements	EN 20345	
PU Monodensity Sole	Sole thickness without profiles	4,5 mm	≥ 4 mm	5.8.1.1	
	Profiles height	3 mm	≥ 2,5 mm	5.8.1.3	
	Tear resistance	6,5 kN/m	≥ 8 kN/m	5.8.2	
	Abrasion resistance	• relative volume loss	149 mm ³	≤ 250 mm ³	5.8.3
		Flexion resistance	2,5 mm	≤ 4 mm	5.8.4
	• Notches increase after 30.000 cycles				
		Hydrolysis	2.00 mm	≤ 6 mm	5.8.5
	• Notches increase after 150.00 cycles				
		Outsole – insole 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 changes)	-0,3 %	≤ 12%	6.4.2	

Date: 18/02/2019

Copy in accordance with the Italian sheet