TECHNICAL SHEET ART. Gladiator

Description High shoe in black Top-Nabuk with padded storm-cuff, 100% polyester lining, Non-Metallic HRP Insole , ATOMIC Insole, double density polyurethane sole , bending resistant , abrasion resistant , oil resistant , slip resistant , ESD.
Plus Midsole compound particularly studied to get a soft PU density for a higher comfort
Suggested sectors of usage Building/Construction, Utilities, Mechanical Industry, Farming/Zootechnics, Naval Industry, Professional / Craftsman.
Care and Maintenance clean periodically the outsole and the upper with no aggressive substances which could compromise quality, safety and durability of the shoe, do not dry close to direct heat source.

Class:
EN ISO 20345:2011
S3 SRC
Sizes: 34-48
Instep: 12
Weight(±10%): 625 gr. (*)

Complete shoe	Norm	Description	Unit	FTG Result	EN ISO 20345 Requirements
Toe Cap: Non-Metallic TOP COMPOSITE toe cap, impact resistant 200 J	5.3.2.3	Impact resistance	mm	15	≥ 14
	5.3.2.4	Compression resistance	mm	15	≥ 14
Midsole: no metallic HRP Insole with high tenacity fibres layers, ceramized and treated with plasma	6.2.1.1	Perforation resistance	N	1.100 no hole	≥ 1.100
ESD footwear: dissipation capacity of the electrostatic charge	**EN ISO 61340 5-1:2016**	Resistance to floor (footwear/floor resistance)	Ohm	5.76×10^7	$< 1{,}00 \times 10^8\ \Omega$
		Transverse resistance of the sole	Ohm	5.13×10^7	$\leq 1{,}00 \times 10^8\ \Omega$
		Chargeability	V	14.27 V	< 100 V
Capacity of Energy Absorption in the heel area	6.2.4	Energy absorption in the heel area	J	26,0	≥ 20
Upper: Top - Nabuk	5.4.6	Water vapour permeability	mg/cm² h	2.3	≥ 0,8
		Coefficient of permeability	mg/cm²	19.9	≥ 15
	5.4.3	Tearing Strength	N	158	≥ 60
	6.3	Water absorption	%	13	≤ 30
		Water penetration	g	0	≤ 0,2
Vamp Lining: honeycomb finished polyester, breathable, abrasion resistant, black colour	5.5.3	Water vapour permeability	mg/cm² h	6,8	≥ 2
		Coefficient of permeability	mg/cm²	54,4	≥ 20
	5.5.1	Tearing Strength	N	25	≥ 15
	5.5.2	Abrasion resistance (dry)	cycles	no rupture	25.600
		Abrasion resistance (wet)	cycles	no rupture	12.800
Quarter Lining: non slip textile 100% polyester, breathable, abrasion resistant, light black colour	5.5.3	Water vapour permeability	mg/cm² h	6,5	≥ 2
		Coefficient of permeability	mg/cm²	54,3	≥ 20
	5.5.1	Tearing Strength	N	27	≥ 15
	5.5.2	Abrasion resistance (dry)	cycles	no rupture	51.200
		Abrasion resistance (wet)	cycles	no rupture	25.600
Insole lining: textile anti perforation midsole HRP insole	5.7.3	Water Absorption	mg/cm²	76	≥ 70
		Ability to release water		99%	≥ 80%
Sole: double density polyurethane , bending resistant, abrasion resistant, oil resistant, slip resistant, ESD	5.8.2	Tearing Strength	kN/m	8,4	≥ 8
	5.8.3	Abrasion resistance	mm³	100	≤ 150
	5.8.4	Bending resistance	mm	1,5	≤ 4
	5.8.5	Hydrolysis	mm	2,0	≤ 6
	6.4.2	Hydrocarbons resistance (volume increase)	%	2,0%	≤ 12%
	5.11	Slip resistance on ceramic floor with water and detergent	flat	0,44	≥ 0,32
		Slip resistance on steel floor with glycerine	inclined	0,31	≥ 0,28
			flat	0,20	≥ 0,18
			inclined	0,15	≥ 0,13

Azocolourants free : no presence of dangerous substances by Annex VII to regulation no. 1907/2006/CE and subsequent amendments and additions
(*) = Indicative weight that refers to ½ pair in size 42