EN ISO 20345:2022

Class: SB E WPA PS HI CI HRO FO
Sizes: 38-47
Instep: 12
Weight (±10%): **683 gr.** (*)

TECHNICAL SHEET ART. PERSEUS

Description: high shoe in HIGH-TEX, 100% polyester lining, non-metallic HRP Insole, ATOMIC insole, anatomic and breathable, dual component in polyurethane and rubber sole, bending resistant, abrasion resistant and oil resistant
Suggested sectors of usage: Cold Environment, Mechanical industry, Petrochemical Industry, Oil & Gas Industry, Professional / Craftsman, Steel Industry / Foundries
Care and Maintenance: clean periodically the outsole and the upper with non-aggressive substances which could compromise quality, safety and durability of the shoe, do not dry close to direct heat source

Complete shoe	Norm	Description	Unit	FTG result	EN ISO 20345 requirements
Toe Cap: non-metallic toe cap TOP COMPOSITE, impact resistant 200 J	5.3.2.6	Impact resistance	mm	20,0	≥ 14
	5.3.2.7	Compression resistance	mm	18,0	≥ 14
Midsole: non-metallic HRP Insole with high tenacity fibres multi layers, polyester composition, perforation resistant	6.2.1	Perforation resistance single value	N	1.476	≥ 950
		Average value		1.282	≥ 1.100
	5.7.3	Water absorption	mg/cm^2	120	≥ 70
		Water desorption		100%	≥ 80%
Capacity of Energy Absorption in the heel area	6.2.4	Energy absorption in the heel area	J	41	≥ 20
Upper: HIGH-TEX, black color	5.4.6	Water vapour permeability	mg/cm^2 · h	6,8	≥ 0,8
		Coefficient of permeability	mg/cm^2	55,9	≥ 15
	5.4.3	Tearing Strength	N	103	≥ 60
Vamp/Quarter Lining: honeycomb 100% finished polyester, breathable, abrasion resistant, grey colour	5.5.4	Water vapour permeability	mg/cm^2 · h	119,6	≥ 2
		Coefficient of permeability	mg/cm^2	978,7	≥ 20
	5.5.2	Tearing Strength	N	33,3	≥ 15
	5.5.3	Abrasion resistance (dry)	cycles	no rupture	25.600
		Abrasion resistance (wet)	cycles	no rupture	12.800
Sole: dual component in polyurethane and rubber sole, bending resistant, abrasion resistant, oil resistant	5.8.3	Tearing Strength	kN/m	19,2	≥ 8,0
	5.8.4	Abrasion resistance	mm^3	93	≤ 150
	5.8.5	Bending resistance	mm	0	≤ 4
	5.8.6	Hydrolysis	mm	0	≤ 6
	6.4.2	Hydrocarbons resistance (volume increase)	%	2,9%	≤ 12%
	6.2.3.1	Warm Insulation of the Sole (HI)	°C	4,0	≤ 22
	6.2.3.2	Cold Insulation of the Sole (CI)	°C	3,5	≤ 10

Electric insulation law CSA Z195-14:
current after 1 min. at 20 kVrms size 42 = at voltage of 20 kVmrs the footwear shows no signs of perforation (result: <1 mA)

In model PERSEUS and its components there is no presence of dangerous substances by Annex XVII to regulation no. 1907/2006/CE and subsequent amendments and additions
(*) = Indicative weight that refers to ½ pair in size 42