



Class:  
EN ISO 20345:2011  
S3 SRC  
Sizes: 38-48  
Instep: 12  
Weight(±10%): 585 gr. (\*)

## TECHNICAL SHEET ART. TOMCAT

**Description** Low shoe in black smooth grain leather with padded storm-cuff, 100% polyester lining, Non-Metallic HRP Insole , LIGHT & SOFT Insole antistatic and breathable, traslucid double density polyurethane sole with overcap, bending resistant , abrasion resistant , oil resistant , slip resistant.

**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 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
<b>Toe Cap:</b> Non-Metallic TOP COMPOSITE toe cap, impact resistant 200 J	5.3.2.3	Impact resistance	mm	14,5	≥ 14
	5.3.2.4	Compression resistance	mm	14,5	≥ 14
<b>Midsole:</b> non metallic HRP Insole with high tenacity fibres layers, ceramized and treated with plasma	6.2.1.1	Perforation resistance	N	1.100 without holes	≥ 1.100
<b>Antistatic footwear:</b> dissipation capacity of the electrostatic charge	6.2.2.2	Electric resistance			
		- Wet	Ω	2,30 x 10 <sup>7</sup>	≥ 1,00 x 10 <sup>5</sup> Ω
		- Dry	Ω	3,80 x 10 <sup>7</sup>	and ≤ 1,00 x 10 <sup>8</sup> Ω
<b>Capacity of Energy Absorption in the heel area</b>	6.2.4	Energy absorption in the heel area	J	24,0	≥ 20
<b>Upper:</b> Black smooth grain leather	5.4.6	Water vapour permeability	mg/cm <sup>2</sup> h	1,2	≥ 0,8
		Coefficient of permeability	mg/cm <sup>2</sup>	17,6	≥ 15
	5.4.3	Tearing Strength	N	195	≥ 120
		Water absorption	%	19	≤ 30
		Water penetration	g	0	≤ 0,2
<b>Vamp Lining:</b> honeycomb finished polyester, breathable, abrasion resistant, turquoise colour	5.5.3	Water vapour permeability	mg/cm <sup>2</sup> h	6,5	≥ 2
		Coefficient of permeability	mg/cm <sup>2</sup>	54,3	≥ 20
	5.5.1	Tearing Strength	N	27	≥ 15
	5.5.2	Abrasion resistance (dry)	cycles	no rupture	25.600
Abrasion resistance (wet)		cycles	no rupture	12.800	
<b>Quarter Lining:</b> honeycomb finished polyester, breathable, abrasion resistant, turquoise colour	5.5.3	Water vapour permeability	mg/cm <sup>2</sup> h	6,5	≥ 2
		Coefficient of permeability	mg/cm <sup>2</sup>	54,3	≥ 20
	5.5.1	Tearing Strength	N	27	≥ 15
	5.5.2	Abrasion resistance (dry)	cycles	no rupture	25.600
Abrasion resistance (wet)		cycles	no rupture	12.800	
<b>Insole lining:</b> textile anti perforation midsole HRP insole	5.7.3	Water Absorption	mg/cm <sup>2</sup>	76	≥ 70
		Ability to release water		99%	≥ 80%
<b>Sole:</b> traslucid double density polyurethane with overcap, bending resistant, abrasion resistant, oil resistant, slip resistant	5.8.2	Tearing Strength	kN/m	8,3	≥ 8
	5.8.3	Abrasion resistance	mm <sup>3</sup>	140	≤ 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)	%	1,0%	≤ 12%
	5.1.1	Slip resistance on ceramic floor with water and detergent	flat	0,45	≥ 0,32
		Slip resistance on steel floor with glycerine	inclined	0,30	≥ 0,28
		flat	0,25	≥ 0,18	
		inclined	0,21	≥ 0,13	

(\*) = Indicative weight that refers to 1/2 pair in size 42