



Class:  
EN ISO 20345:2011  
S3 SRC  
Sizes: 34-48  
Instep: 12  
Weight (±10%): 585 gr. (\*)

## TECHNICAL SHEET ART. Douglas

**Description** Low 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.



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	15	≥ 14	
	5.3.2.4	Compression resistance	mm	15	≥ 14	
<b>Midsole:</b> no 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>ESD footwear:</b> dissipation capacity of the electrostatic charge	<b>EN ISO 61340 5-1:2016</b>	Resistance to floor (footwear/floor resistance)	Ohm	$5.76 \times 10^7$	$< 1,00 \times 10^8 \Omega$	
		Transverse resistance of the sole	Ohm	$5.13 \times 10^7$	$\leq 1,00 \times 10^8 \Omega$	
		Chargeability	V	14.27 V	$< 100 \text{ V}$	
<b>Capacity of Energy Absorption in the heel area</b>	6.2.4	Energy absorption in the heel area	J	26,0	≥ 20	
<b>Upper:</b> Top - Nabuk	5.4.6	Water vapour permeability	mg/cm <sup>2</sup> h	2.3	≥ 0,8	
		Coefficient of permeability	mg/cm <sup>2</sup>	19.9	≥ 15	
	5.4.3	Tearing Strength	N	158	≥ 60	
	6.3	Water absorption	%	13	≤ 30	
		Water penetration	g	0	≤ 0,2	
<b>Vamp Lining:</b> honeycomb finished polyester, breathable, abrasion resistant, black colour	5.5.3	Water vapour permeability	mg/cm <sup>2</sup> h	6,8	≥ 2	
		Coefficient of permeability	mg/cm <sup>2</sup>	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	
<b>Quarter Lining:</b> non-slip textile 100% polyester, breathable, abrasion resistant, black 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	51.200	
		Abrasion resistance (wet)	cycles	no rupture	25.600	
<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> 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	mm <sup>3</sup>	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
			inclined		0,31	≥ 0,28
	Slip resistance on steel floor with glycerine	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