



## TECHNICAL SHEET ART. ASSEN

**Description** High shoe in Waxy black full grain, 100% polyester lining, Non-Metallic HRP Insole, ESD Sport – Lite 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** Mechanical Industry, Building / Construction, Logistic / Packaging, 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



Class: S3 SRC  
 Sizes: 38-48  
 Instep : 12  
 Weight(±10%): 534 gr. (\*)

Complete shoe	Norm	Description	Unit	FTG result	EN ISO 20345 requirement
<b>Toe cap:</b> THIN CAP toe cap, impact resistant 200 J	5.3.2.3	Impact resistance	mm	14,5	>= 14
	5.3.2.4	Compression resistance	mm	14,0	>= 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	>= 1.100
<b>ESD footwear:</b> dissipation capacity of the electrostatic charge	EN ISO 61340-5-1	Electric resistance Class 2	Mohm	30,0	< 35
<b>Capacity of energy absorption in the heel area</b>	6.2.4	Energy absorption in the heel area	J	25,0	>= 20
<b>Upper:</b> Waxy black full grain, thickness 2,0 mm	5.4.6	Water vapour permeability	mg/cmq h	2,8	>= 0,8
		Coefficient of permeability	mg/cmq	31,8	>= 15
	5.4.3	Tearing strength	N	244	>= 120
<b>Vamp lining:</b> non woven textile for toe cap, grey color	5.5.3	Water vapour permeability	mg/cmq h	3,4	>= 2
		Coefficient of permeability	mg/cmq	30,2	>= 20
	5.5.1	Tearing strength	N	30	>= 15
	5.5.2	Abrasion resistance (dry)	cycles	no rupture	25.600
		Abrasion resistance (wet)	cycles	no rupture	12.800
<b>Quarter lining:</b> 100% honeycomb finished polyester, breathable, abrasion resistant, red color	5.5.3	Water vapour permeability	mg/cmq h	6,8	>= 2
		Coefficient of permeability	mg/cmq	54,4	>= 20
	5.5.1	Tearing strength	N	25	>= 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>	78	>= 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	10,5	>= 8
	5.8.3	Abrasion resistance	mm <sup>3</sup>	74	<= 150
	5.8.4	Bending resistance	mm	2,5	<= 4
	5.8.5	Hydrolysis	mm	1,0	<= 6
	6.4.2	Hydrocarbons resistance (volume increase)	%	0,3%	<= 12%
	5.11	Slip resistance on ceramic floor with water and detergent	flat	0,42	>= 0,32
		Slip resistance on steel floor with glycerine	inclined	0,40	>= 0,28
		flat	0,20	>= 0,18	
		inclined	0,17	>= 0,13	

Azo dye free: no presence of azo dye forbidden by normative 1907/2006/CE Attachment XVII (method UNI EN 14362-1:2012 + UNI EN 14362-3:2012 – Textile)

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