



EN ISO 20345:2011

Class: S1P SRC  
ESD  
Sizes: 34-48  
Available in stock only sizes:  
35-47  
Instep: 12  
Weight ( $\pm 10\%$ ): **505 gr.** (\*)

## TECHNICAL SHEET ART. JUDO

**Description:** low shoe in black MESH with padded storm-cuff, 100% polyester lining, non-metallic HRP Insole, SPORT-LITE Insole anatomic antistatic and antibacterial, 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:** Servicing, Mechanical Industry, Professional / Craftsman, Electronic / Electrotechnic, Logistic / Packaging

**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 Thin Cap toe cap, impact resistant 200 J	5.3.2.3	Impact resistance	mm	14,5	$\geq 14$
	5.3.2.4	Compression resistance	mm	16,0	$\geq 14$
<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	$\geq 1.100$
<b>ESD footwear:</b> dissipation capacity of the electrostatic charge	EN ISO 61340 5-1	Resistance to floor (footwear/floor resistance)	Ohm	$3,88 \times 10^7$	$< 1,00 \times 10^8 \Omega$
		Transverse resistance of the sole	Ohm	$3,05 \times 10^7$	$\leq 1,00 \times 10^8 \Omega$
		Chargeability	V	$< 20 \text{ V}$	$< 100 \text{ V}$
<b>Capacity of Energy Absorption in the heel area</b>	6.2.4	Energy absorption in the heel area	J	24,0	$\geq 20$
<b>Upper:</b> black MESH	5.4.6	Water vapour permeability	mg/cm <sup>2</sup> h	9,4	$\geq 0,8$
	5.4.3	Coefficient of permeability	mg/cm <sup>2</sup>	74,5	$\geq 15$
		Tearing Strength	N	135	$\geq 60$
<b>Vamp and Quarter Lining:</b> honeycomb finished polyester, breathable, abrasion resistant, black colour	5.5.3	Water vapour permeability	mg/cm <sup>2</sup> h	6,2	$\geq 2$
	5.5.1	Coefficient of permeability	mg/cm <sup>2</sup>	52,8	$\geq 20$
		Tearing Strength	N	73	$\geq 15$
	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	$\geq 70$
		Ability to release water		99%	$\geq 80\%$
<b>Sole:</b> double density polyurethane, bending resistant, abrasion resistant, oil resistant, slip resistant, ESD	5.8.2	Tearing Strength	kN/m	8,9	$\geq 8$
	5.8.3	Abrasion resistance	mm <sup>3</sup>	86	$\leq 150$
	5.8.4	Bending resistance	mm	0,5	$\leq 4$
	5.8.5	Hydrolysis	mm	1,5	$\leq 6$
	6.4.2	Hydrocarbons resistance (volume increase)	%	0,5%	$\leq 12\%$
	5.11	Slip resistance on ceramic floor with water and detergent	heel forward 7°	0,47	$\geq 0,32$
		tip back 7°	0,32	$\geq 0,28$	
	Slip resistance on steel floor with glycerine	heel forward 7°	0,24	$\geq 0,18$	
	tip back 7°	0,22	$\geq 0,13$		

JUDO style and its components: no presence of dangerous substances by Annex VII to regulation no. 1907/2006/CE and subsequent amendments and additions

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