



EN ISO 20345:2022

Class: S3S FO SR ESD  
 Sizes: 34-48  
 Available in stock only sizes  
 35-47  
 Instep: 12  
 Weight ( $\pm 10\%$ ): **567 gr.** (\*)

## TECHNICAL SHEET ART. MOTION

**Description:** low shoe in black microfiber, water-repellent with padded storm-cuff; HIGH-TEX inserts, 100% polyester lining, non-metallic HRP Insole, DYNAMIC Insole, antistatic, breathable, 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:** Electronics / Electrotechnics, Mineral industry, Servicing  
**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	Results	EN ISO 20345 requirements	
<b>Toe Cap:</b> aluminum toe cap, impact resistant 200 J	5.3.2.6	Impact resistance	mm	17,5	$\geq 14$	
	5.3.2.7	Compression resistance	mm	22	$\geq 14$	
<b>Midsole:</b> non-metallic HRP Insole with high tenacity fibres multi layers, polyester composition, perforation resistant.	6.2.1	Perforation resistance (single value)	N	1.200	$\geq 950$	
		Average value		1.330	$\geq 1.100$	
<b>Insole:</b> DYNAMIC, anatomic, antistatic, antibacterial and ESD	5.7.3	Water absorption	Mg/cm <sup>2</sup>	228	$\geq 70$	
		Water desorption		92%	$\geq 80\%$	
<b>ESD footwear:</b> dissipation capacity of the electrostatic charge	EN ISO 61340-5-1	Electrical resistance for ESD footwear	Mohm	49,2	$< 100$	
<b>Capacity of Energy Absorption in the heel area</b>	6.2.4	Energy absorption in the heel area	J	28	$\geq 20$	
<b>Upper:</b> black microfiber, water-repellent with padded storm-cuff. HIGH-TEX inserts	5.4.6	Water vapour permeability	mg/cm <sup>2</sup> · h	2,2	$\geq 0,8$	
		Water vapour coefficient	mg/cm <sup>2</sup>	20,3	$\geq 15$	
	5.4.3	Tear strength	N	207	$\geq 60$	
<b>Vamp/Quarter Lining:</b> honeycomb 100% finished polyester, breathable, abrasion resistant	5.5.4	Water vapour permeability	mg/cm <sup>2</sup> · h	122,2	$\geq 2$	
		Water vapour coefficient	mg/cm <sup>2</sup>	977,6	$\geq 20$	
	5.5.2	Tear strength	N	57	$\geq 15$	
	5.5.3	Abrasion resistance (dry)	cycles	no holes	25.600	
		Abrasion resistance (wet)	cycles	no holes	12.800	
<b>Sole:</b> double density polyurethane, bending resistant, abrasion resistant, oil resistant, slip resistant, ESD, with COMFY-BOOST insert	5.8.3	Tear strength	kN/m	21,1	$\geq 8$	
	5.8.4	Abrasion resistance (black)	mm <sup>3</sup>	80	$\leq 150$	
	5.8.5	Bending resistance	mm	0	$\leq 4$	
	5.8.6	Hydrolysis	mm	0	$\leq 6$	
	6.4.2	Hydrocarbons resistance (volume increase)	%	4,3%	$\leq 12\%$	
	6.2.10	Slip resistance on ceramic glycerine (SR)	heel forward (7°)		0,22	$\geq 0,19$
			tip back (7°)		0,25	$\geq 0,22$

In model MOTION 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 1/2 pair in size 42