



PRODUCT PERFORMANCE PASSION

Article	ENDURANCE HIGH ESD
Category	S3L LG FO SR, ESD
Sizes	36 - 48
Width	11
Weight (half pair, sz 42)	580 gr
Metal free	Yes
Certification	CE



**E·LITE**  
collection

<b>UPPER</b>	Water resistant full grain and abrasion resistant leather
<b>LINING</b>	extremely breathable polyamide lining. It absorbs moisture quickly and ensures a greater comfort during the whole working day. Optimal resistance to abrasion and anti-bacterial
<b>TOE CAP</b>	non-magnetic toecap, from composite materials. 50% lighter than steel
<b>ANTI-PERFORATION MIDSOLE</b>	non-magnetic, perforation resistance composite fabric plate. It is 40% lighter and more flexible than steel plate and at the same time guarantees an optimal protection covering 100% of the foot surface. Certified EN 12568:2010
<b>FOOTBED</b>	insole PU 10mm expanded, covered with antibacterial fabric
<b>SOLE</b>	PU double density with optimal absorption of strains on the vertebral column thanks to the use of expanded PU midsole. Maximum stability

	Requirements		Test
	EN ISO 20345:2022		Results
	+ A1:2024		
<b>UPPER</b>			
Water Vapour Permeability	mg/cmq*h	≥ 0,8	3,5
Water Vapour Coefficient	mg/cmq	≥ 15	37
<b>LINING</b>			
Water Vapour Permeability	mg/cmq*h	≥ 2	11,1
Water Vapour Coefficient	mg/cmq	≥ 20	97,7
<b>TOECAP</b>			
Impact resistance: clearance under the toecap	mm	≥ 14	14
Compression resistance: clearance under the toecap	mm	≥ 14	14
<b>ANTI-PERFORATION MIDSOLE</b>			
Penetration resistance (EN ISO 12568:2010)	N	≥ 1100	≥ 1100
<b>ELECTRICAL RESISTANCE</b>			
- wet condition (85% relative humidity)	MΩ	≥ 0,1	300
- dry condition (30% relative humidity)	MΩ	≤ 1000	650
<b>ESD features (EN 61340-5-1)</b>			
Ground electrical resistance	Ω	≤ 3,5 x 10 <sup>7</sup>	3,4 x 10 <sup>7</sup>
Transversal sole electrical resistance	Ω	≥ 1x10 <sup>5</sup> R ≤ 1x10 <sup>8</sup>	9 x 10 <sup>7</sup>
<b>SOLE</b>			
Abrasion resistance: relative volume loss	mm <sup>3</sup>	≤ 150	45
Flexing resistance: cut growth	mm	≤ 4	1,5
Resistance to fuel oil: volume increase	%	≤ 12	1,1
Energy absorption of seat region	J	≥ 20	23
Slip resistance on	Condition A	≥ 0,31	0,35
ceramic tile with sodium lauryl sulphate	Condition B	≥ 0,36	0,38
Slip resistance on	Condition C	≥ 0,19	0,23
ceramic tile with glycerine	Condition D	≥ 0,22	0,25



www.perf-safety.it

info@perf-safety.it

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