

Article	BLACKFIRE LOW ESD
Category	S1 P SRC, ESD
Sizes	36 - 47
Width	11
Weight (half pair, sz 42)	545 gr
Metal free	Yes
Certification	CE



E.LITE collection

UPPER	suede and abrasion resistant leather with nylon inserts
LINING	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
TOE CAP	non-magnetic toecap, from composite materials. 50% lighter than steel
ANTI-PERFORATION MIDSOLE	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
FOOTBED	insole PU 10mm expanded, covered with antibacterial fabric
SOLE	PU double density with optimal absorption of strains on the vertebral column thanks to the use of expanded PU midsole. Maximum stability

bdry

TAP
DEFENCE

Shield PRO

PSD
TECHNOLOGY

	Requirements EN ISO 20345:2011	Test Results
UPPER		
Water Vapour Permeability	mg/cmq*h $\geq 0,8$	5,1
Water Vapour Coefficient	mg/cmq ≥ 15	47,8
LINING		
Water Vapour Permeability	mg/cmq*h ≥ 2	11,1
Water Vapour Coefficient	mg/cmq ≥ 20	97,7
TOECAP		
Impact resistance: clearance under the toecap	mm ≥ 14	14
Compression resistance: clearance under the toecap	mm ≥ 14	14
ANTI-PERFORATION MIDSOLE		
Penetration resistance (EN ISO 12568:2010)	N ≥ 1100	≥ 1100
ELECTRICAL RESISTANCE		
- wet condition (85% relative humidity)	M Ω $\geq 0,1$	300
- dry condition (30% relative humidity)	M Ω ≤ 1000	650
ESD features (EN 61340-5-1)		
Ground electrical resistance	$\Omega \leq 3,5 \times 10^7$	$3,4 \times 10^7$
Transversal sole electrical resistance	$\Omega \geq 1 \times 10^5$ R $\leq 1 \times 10^8$	9×10^7
SOLE		
Abrasion resistance: relative volume loss	mm ³ ≤ 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	7° Heel $\geq 0,13$	0,15
steel ground with glycerine	Flat $\geq 0,18$	0,19
Slip resistance on	7° Heel $\geq 0,28$	0,33
ceramics ground with detergent	Flat $\geq 0,32$	0,46

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