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|---------------------------|-------------------|
| Article | BLACKFIRE LOW ESD |
| Category | S1 P SRC, ESD |
| Sizes | 36 - 48 |
| 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 |

| | Requirements | Test Results |
|--|---|-----------------------|
| UPPER | EN ISO 20345:2011 | |
| Water Vapour Permeability | mg/cmq* ^h ≥ 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) | MΩ ≥ 0,1 | 300 |
| - dry condition (30% relative humidity) | MΩ ≤ 1000 | 650 |
| ESD features (EN 61340-5-1) | | |
| Ground electrical resistance | Ω ≤ 3,5 x 10 ⁷ | 3,4 x 10 ⁷ |
| Transversal sole electrical resistance | Ω ≥ 1x10 ⁵ R ≤ 1x10 ⁸ | 9 x 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 ≥ 0,13 | 0,15 |
| steel ground with glycerine | Flat ≥ 0,18 | 0,19 |
| Slip resistance on | 7° Heel ≥ 0,28 | 0,33 |
| ceramics ground with detergent | Flat ≥ 0,32 | 0,46 |

bdry

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