# TECHNICAL DATA SHEET

## MARAIS black-blue Low ESD O1 No. 972020 Sz. 36 - 48

## LABELLING ACCORDING TO STANDARD

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| Standard for occupational shoes EN ISO 20347:2022 O1 | Basic requirement for O1:<br>**A** Antistatic shoe - **E** Energy absorption in the heel - Closed heel area |
| Additional requirements | **FO** FUEL RESISTANCE<br>**SR** SLIP RESISTANCE on ceramic tile with glycerine.<br>**HRO** HEAT RESISTANT OUTSOLE<br>Heat resistance against contact heat, also during short-term high temperatures |

## FORM

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| Occupational work shoe  | Form A - in size 42, the upper height must not exceed 11.2 cm. |

## AREAS OF APPLICATION

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| Areas of application | Dry work areas<br>Areas where there is no risk of falling heavy objects<br>Areas where there is a risk of electrostatic discharge (ESDS/ESD) |

## FEATURES

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| ESD equipment | Thanks to its excellent discharge capability, the shoe is suitable for work in ESD sensitive or electrostatically protected areas (EPA). The shoes comply to the standard 61340-5-1. |
| Sizes (unisex model) | • Expanded size range: available in sizes 36 - 48 |
| Certification in accordance with DGUV rule 112-191 | • Certified for orthopaedic inserts |

| FEATURES | |
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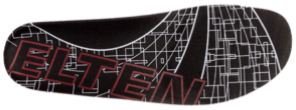
| Low weight | • Use of especially light textile materials<br>• Comfortable |
| Low weight sole | • Comfortable |
| Padded upper edge | • Excellent wearing comfort: the padded upper edge protects the Achilles tendon. |
| Padded tongue | • Excellent wearing comfort: The tongue prevents pressure marks. |
| Leather-free equipment | • Suitable for persons allergic to leather |
| **UPPER MATERIAL** | |
| Mesh material | • Areas of application S1<br>• Synthetic material<br>• Retains its shape<br>• Tear-resistant<br>• Quick drying<br>• Abrasion-resistant and light |
| **LINING** | |
| Breathable fabric lining | • Climate-regulating<br>• Good ventilation<br>• Skin-friendly<br>• High absorption and emission of moisture |
| Heel pocket lining | • The abrasion-resistant microfibre material is particularly sturdy and provides for a pleasant wearing comfort. |
| **INLAY SOLE** | |
| Full-length inlay sole ESD PRO<br>  | • ESD EQUIPMENT: Protection against electrostatic discharge (ESD). The full-length, exchangeable inlay sole is conductive and designed for the use in ESD safety footwear according to the standards DIN EN ISO 20345 and DIN EN 61340-5-1.<br>• The full-length, exchangeable inlay sole provides the highest possible comfort in safety shoes.<br>• The inlay sole is functionally absorbing and releasing moisture and thus provides for a pleasant foot climate.<br>• The extreme softness of the PU foam absorbs shocks on impact and increases walking comfort.<br>• Improvement of the shoe climate thanks to the PU foam's open cell structure. So the foot is always kept comfortably dry. |

| INSOLE | |
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| ESD soft-fleece insole | ESD equipment: Protection against electrostatic discharge (ESD), and without using additional means fulfilling a bridge function to the outsole.<br>• Approximately 50 % lighter than comparable soles made of natural materials<br>• Flexible and shape-retaining<br>• Good air permeability<br>• Excellent wear resistance<br>• High moisture absorption<br>• Quick drying (virtually overnight) |
| **OUTSOLE** | |
| TRANSFOAMERS double-density sole with profile<br>  <br>  | • Antistatic<br>• Excellent slip resistance<br>• ultralight, very flexible sole |
| | Outsole: Rubber<br>• Colour: blue<br>• Profile depth: 2.5 mm<br>• Particularly abrasion-resistant<br>• Heat-resistant to approx. 200°C, for short periods to 300°C<br>• Flexible at cold temperatures to approx. -20°C<br>• Oil and fuel resistant<br>• with rubber inserts for better grip<br>• Excellent damping qualities<br>• Low material density, thereby lower weight |
| | Midsole: SCF (Supercritical-Foaming)<br>• Innovative midsole foam made of EVA and TPU, among other materials, for lightness and durability<br>• Excellent damping qualities<br>• Low material density, thereby lower weight |