# TECHNICAL DATA SHEET

## MADDOX black-red Low ESD S3 No. 729561 Sz. 35 - 48








## LABELLING ACCORDING TO STANDARD

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| Standard for safety footwear EN ISO 20345 S3 | Basic requirement for S3:<br>**A** Antistatic shoe - **E** Energy absorption in the heel - **FO** Fuel resistance - **WRU** Water penetration and water absorption resistant upper - **P** Penetration resistance - Closed heel area - Profiled outsole |
| Additional requirements | **SRC** Slip resistance: Slip resistant on floors of ceramic tiles with a sodium lauryl sulfate (SLS) solution and on steel floors with glycerol. When it comes to slip resistance as defined by EN ISO 20345, SRC signifies the best possible rating a safety shoe can reach. |

## FORM

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| Safety 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 | Indoors and outdoors<br>Areas where exposure to moisture is expected (S2)<br>Areas where there is a risk of penetration from pointed and sharp objects (S3)<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 35 - 48 |
| Certification in accordance with DGUV rule 112-191 | • Certified for orthopaedic inserts |

| FEATURES | |
|---|---|
| Padded upper edge | • Excellent wearing comfort: the padded upper edge protects the Achilles tendon. |
| Padded tongue | • Excellent wearing comfort: The tongue prevents pressure marks. |
| Heel loop | • Quicker into the shoe: The heel loop makes it easier to get inside the shoe |
| Sole core made of Infinergy® by BASF  | The sole core consists of expanded, thermoplastic polyurethane in the form of oval foam beads. These stick together and are very light and elastic. This revolutionary technology cushions the impact and bounces back extremely well on pressure, so that the energy can be returned to the wearer. Even under low temperatures of -20 °C, the core maintains its high elasticity. |
| Leather-free equipment | • Suitable for persons allergic to leather |
| Winner Plus X Award | The Plus X Award honours brands for the leading edge in quality and innovation of their products. An independent jury gave award to the MADDOX models of our Wellmaxx series in the categories High Quality, Design and Functionality. |
| **UPPER MATERIAL** | |
| Hydrophobized microfibre | • Areas of application S2/S3<br>• Synthetic material<br>• Particularly soft<br>• Retains its shape<br>• Tear-resistant<br>• Dries quickly<br>• Abrasion-resistant and light<br>• Water penetration and absorption in accordance with EN ISO 20345 S2; an improved resistance against water penetration is achieved by a special hydrophobation of the material |
| Hydrophobized textile material | • Areas of application S2/S3<br>• Synthetic material<br>• Shape-retaining<br>• Tear-resistant<br>• Dries quickly<br>• Wear-resistant and light<br>• Water penetration/absorption in accordance with EN ISO 20345 S2<br>• By hydrophobation, higher resistance against water penetration and water absorption |
| **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. |

## TOE PROTECTION CAP

Steel toe cap



- Protection against impacts of min. 200 joules and pressure loading of min. 15 kN
- Permanent edge coverage for cushioning
- Ergonomically shaped
- Comfortable toe room
- Good coverage of the little toe area

## INLAY SOLE

Full-length inlay sole SPORTIVE ESD




- 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.
- The full-length, exchangeable inlay sole provides the highest possible comfort in safety shoes.
- Improvement of the shoe climate thanks to the PU foam's open cell structure. So the foot is always kept comfortably dry.
- The extreme softness of the PU foam absorbs shocks on impact and increases walking comfort.

## PENETRATION RESISTANCE

Metal-free penetration protection

The textile midsole complies with the penetration safety standard EN 12568 and furthermore fulfils the additional requirements for penetration protection in accordance with EN ISO 20344 / 20345. The light and flexible material enables an increased elasticity of the shoe, which can particularly be recognized when working on uneven grounds or on your knees. Thanks to its thermo-insulating effect, it also keeps the foot dry and warm.

The textile variant offers 100 % foot coverage compared to steel midsoles (foot coverage 85 % due to limits in the shoe manufacturing process). Being 100 % metal-free and antimagnetic, this equipment is used as penetration protection in safety shoes.

## OUTSOLE

MAXXIMO extended wedge double-density sole





- Excellent slip resistance
- Antistatic

Outsole: TPU (thermoplastic polyurethane)

- Colour: red
- Profile depth: 3.5 mm
- Particularly abrasion-resistant
- Heat-resistant to approx. 130°C
- Flexible at cold temperatures to approx. -30°C
- Oil and fuel resistant

Midsole: PU (polyurethane)

- The soft PU core provides a good impact absorption and high wearing comfort
- The core made of Infinergy® provides a very good cushioning with rebound effect