

TECHNICAL DATA SHEET

MADDOX XXR BOA® black-grey Low ESD S3S No. 721231

Sz. 39 - 48



LABELLING ACCORDING TO STANDARD

Standard for safety footwear EN ISO 20345:2022 S3S	Basic requirement for S3S: A Antistatic shoe - E Energy absorption in the heel - WPA Water penetration and absorption - S Textile penetration protection - Closed heel area - Basic Slip resistance test on ceramic tile + NaLS (soap solution) - Profiled outsole
Additional requirements	FO FUEL RESISTANCE SR SLIP RESISTANCE on ceramic tile with glycerine.

FORM

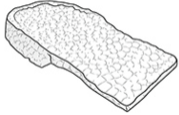
Safety shoe 	Form A - in size 42, the upper height must not exceed 11.2 cm.
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AREAS OF APPLICATION

Areas of application	Indoors and outdoors Areas where exposure to moisture is expected (S2) Areas where there is a risk of penetration from pointed and sharp objects (S3/S3L/S3S) Areas where there is a risk of electrostatic discharge (ESDS/ESD)
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FEATURES

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. 
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.
Reflective material	Good visibility in the dark 
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. 
BOA® Fit System Li2	The BOA® Fit System Li2 combines an ultra-flat, robust design with precise fine adjustment in both directions. In addition to precise tightening, the fit can also be loosened by turning it back without opening the fastener completely. In combination with durable cables and low-friction guides, Li2 enables quick, effortless adjustment to the foot at any time and, like all BOA® systems, is covered by the BOA® guarantee. 
Leather-free equipment	Suitable for persons allergic to leather
UPPER MATERIAL	
Hydrophobized microfibre	- Areas of application S2/S3 - Synthetic material - Particularly soft - Retains its shape - Tear-resistant - Dries quickly - Abrasion-resistant and light - 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 - Synthetic material - Shape-retaining - Tear-resistant - Dries quickly - Wear-resistant and light - Water penetration/absorption in accordance with EN ISO 20345 S2 - By hydrophobation, higher resistance against water penetration and water absorption

LINING

Breathable fabric lining	• Climate-regulating • Good ventilation • Skin-friendly • 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 with recycled
material content

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.

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.

The metal-free midsole (penetration protection) is made from 20% recycled polyester.

OUTSOLE

WELLMAXX RECHARGED
double-density sole with
profile



- Excellent slip resistance
- Antistatic

Outsole: PU (polyurethane)

- Colour: black
- Profile depth: 3.0 mm
- Particularly abrasion-resistant
- Extended wedge sole
- Heat-resistant to approx. 130°C
- Flexible at cold temperatures to approx. -20°C
- Oil and fuel resistant

Midsole: PU (polyurethane)

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