

TECHNICAL DATA SHEET

MATTHEW TPU Mid ESD S3S Typ 2 No. 7676102

Sz. 40 - 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

FORM

Safety laced boot



Form B - in size 42, the upper height must be at least 11.3 cm.

FIT

ERGO-ACTIVE Fußtypensystem	ERGO-ACTIVE foot type system with three fit variants The right shoe for everyone: Three different types of lasts do not only take into account length and width of the foot, but also toe length, heel width and angle of the ball of the foot.	
	Foot type 1: • For larger feet • Short toes • Wide ball and heel area • Steep ball angle	
	Foot type 2: • For normal feet • Long toes • Medium-wide ball and heel area • Flat ball angle	
	Foot type 3: • For slim feet • Medium-sized toes • Narrow ball and heel area • Medium ball angle	

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	
Full, padded bellows tongue	• Excellent wearing comfort: The tongue prevents pressure marks and avoids dirt from entering into the shoe.	
Collar padding	• Excellent wearing comfort: the ankle-wrapping, softly padded upper edge provides for stability and grip in the shoe.	
Reflective material	• Good visibility in the dark	
Heel loop	• Quicker into the shoe: The heel loop makes it easier to get inside the shoe	

FEATURES	
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

Semi-orthopaedic inlay sole 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 sole's footbed is tailored to the fit of the shoe as well as to the natural, intact longitudinal arch of the foot.
- The improved heel damping is kind to the entire musculoskeletal system – from foot to spinal column.
- 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.

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

ERGO-ACTIVE double-density sole with profile



- S-line shaped configuration of the tread blocks, for an ergonomic foot roll
- Contrasting colours for dynamic design
- Excellent slip resistance
- Antistatic

Outsole: TPU (thermoplastic polyurethane)

- Colour: lightgrey, with coloured inserts
- 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