# TECHNICAL DATA SHEET

IMPULSE EA blue Mid ESD S2 Typ 2 No. 7672602

Sz. 40 - 48











# **LABELLING ACCORDING TO STANDARD**

Standard for safety footwear EN ISO 20345 S2 Basic requirement for S2:

A Antistatic shoe - E Energy absorption in the heel - FO Fuel resistance - WRU Water penetration and water absorption resistant upper - Closed heel area

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**

Safety laced boot



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



ETT		
ERGO-ACTIVE foot-type system	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 electrostatic discharge (ESDS/ESD)	
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.	ESD
Certification in accordance with DGUV rule 112-191	Certified for orthopaedic modifications / inserts	
Full, padded bellows tongue	Excellent wearing comfort: The tongue prevents pressure marks are avoids dirt from entering into the shoe.	nd
Collar padding	<ul> <li>Excellent wearing comfort: the ankle-wrapping, softly padded upper provides for stability and grip in the shoe.</li> </ul>	r edge
Reflective material	Good visibility in the dark	



# Abrasion-resistant toe protection • Directly applied to the upper in the shoe tip area • Excellent wear protection in the shoe tip area • Protects the upper in this critical area against premature wear Winner Plus X Award The independent jury for the Plus X Award, the Innovation Prize for Technology, Spot, and Lifestyle, grants a total of seven seals of approval to brands that offer products with a competitive edge in terms of quality and innovation. ELTEN has always seen itself as an innovative business at the cutting edge of technology.

# **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

# 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.



# **INSOLE**

#### ESD soft-fleece insole

ESD equipment: Protection against electrostatic discharge (ESD), and without using additional means fulfilling a bridge function to the outsole.

- Approximately 50 % lighter than comparable soles made of natural materials
- · Flexible and shape-retaining
- · Good air permeability
- Excellent wear resistance
- High moisture absorption
- Quick drying (virtually overnight)

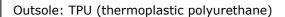
# **OUTSOLE**

# ERGO-ACTIVE doubledensity 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



· 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



