TECHNICAL DATA SHEET

LUANA grey-turquoise Low ESD S1 No. 749125 Sz. 35 - 42







LABELLING ACCORDING TO STANDARD

Standard for safety footwear EN ISO 20345 S1	Basic requirement for S1: **A** Antistatic shoe - **E** Energy absorption in the heel - **FO** Fuel resistance - Closed heel area
Additional requirements	**FO** FUEL RESISTANCE

FORM

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

FIT

Ladies' fit	The shoe last is ideally tailored to the ergonomics of female feet.

AREAS OF APPLICATION

Areas of application	Dry work areas Industry, storage, transport, assembly etc. (S1) Areas where there is a risk of electrostatic discharge (ESDS/ESD) Workplaces on hard Undergrounds: The revolutionary Infinergy® sole core cushions impacts and provides for a rebound effect when the compressive impulse subsides - for more energy in every step.

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.
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.
Laces and stitching made from 100% recycled material	Laces made from 100% recycled polyester. Sewing thread made of 100% recycled PET bottles.
Leather-free equipment	• Suitable for persons allergic to leather
UPPER MATERIAL	
Mesh material (rec)	• Areas of application S1 • Synthetic material with recycled material content • Retains its shape • Tear-resistant • Quick drying • Abrasion-resistant and light
Microfibre (rec)	• Synthetic material with recycled material content • Particularly soft • Retains its shape • Tear-resistant • Quick drying • Abrasion-resistant and light
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 (rec)



- 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.
- Inlay sole with recycled material content
- 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.

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

MAXXIMO extended wedge double-density sole





- Excellent slip resistance
- Antistatic

Outsole: TPU (thermoplastic polyurethane)

- Colour: lightgrey
- 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) with a core made of Infinergy® by BASF

- 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

RECYCLING MATERIAL



PERCENTAGES RECYCLED MATERIAL

- Upper material 71%
- Laces and stitching 100%
- Breathable fabric lining 96%
- Inlay sole 75%
- Small parts 8%