TECHNICAL DATA SHEET

TORNADO XXSW BOA® black-blue Low ESD S1PS No. 724921 — Sz. 36 - 48







LABELLING ACCORDING TO STANDARD

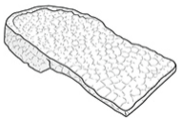
Standard for safety footwear EN ISO 20345:2022 S1PS	Basic requirement for S1PS: **A** Antistatic shoe - **E** Energy absorption in the heel - **P** Steel midsole - **S** Textile penetration protection - Closed heel area - Basic Slip resistance test on ceramic tile + NaLS (soap solution)
Additional requirements	**FO** FUEL RESISTANCE **SR** SLIP RESISTANCE on ceramic tile with glycerine. **SC** SCUFF CAP The overcap manages a certain amount of abrasion. **HRO** HEAT RESISTANT OUTSOLE Heat resistance against contact heat, also during short-term high temperatures

FORM

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

AREAS OF APPLICATION

Areas of application	Dry work areas Industry, storage, transport, assembly etc. Areas where there is a risk of penetration from pointed and sharp objects (S1P/ S1PL/S1PS) 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.
Sizes (unisex model)	• Expanded size range: available in sizes 36 - 48
Certification in accordance with DGUV rule 112-191	• Certified for orthopaedic inserts
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.
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
TPU scuff cap	• Excellent wear protection in the shoe tip • Protects the upper leather in this area against premature wear
UPPER MATERIAL	
Hydrophobized microfibre with recycled material content	• Areas of application S2/S3 • Synthetic material with recycled material content • 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 with recycled material content	• Climate-regulating • Good ventilation • Skin-friendly • High absorption and emission of moisture

LINING

Heel pocket lining	• The abrasion-resistant microfibre material is particularly sturdy and provides for a pleasant wearing comfort.

TOE PROTECTION CAP

Carbon cap 	• Carbon cap made from high-strength carbon fibre • Protection against impacts of at least 200 joules and a compressive load of at least 15 kN • Metal-free, anti-magnetic, corrosion-resistant • Very low weight to reduce fatigue • Ergonomically shaped for optimum fit • Freedom of movement for toes while still being a compact shape

INLAY SOLE

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

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

WELLMAXX SKYWALK triple-component sole with profile





- Antistatic
- Excellent slip resistance
- ultralight, very flexible sole

Outsole: Rubber

- Colour: black
- Profile depth: 3.0 mm
- Particularly abrasion-resistant
- Heat-resistant to approx. 200°C, for short periods to 300°C
- Oil and fuel resistant

Midsole: SCF (Supercritical-Foaming)

- Excellent damping qualities
- Innovative midsole foam made of EVA and eTPU, among other materials, for lightness and durability
- Low material density, thereby lower weight
- The core made of Infinergy® provides a very good cushioning with rebound effect