

# TECHNICAL DATA SHEET

**THUNDER XXSW black-blue Low ESD S3S No. 724951**


**Sz. 36 - 48**



## LABELLING ACCORDING TO STANDARD





<p>Standard for safety footwear EN ISO 20345:2022 S3S</p>	<p>Basic requirement for S3S:  <b>A</b> Antistatic shoe - <b>E</b> Energy absorption in the heel -  <b>WPA</b> Water penetration and absorption -  <b>S</b> Textile penetration protection - Closed heel area - Basic Slip resistance test on ceramic tile + NaLS (soap solution) - Profiled outsole</p>
<p>Additional requirements</p>	<p><b>FO FUEL RESISTANCE</b></p> <p><b>SR SLIP RESISTANCE</b> on ceramic tile with glycerine.</p> <p><b>HRO HEAT RESISTANT OUTSOLE</b> Heat resistance against contact heat, also during short-term high temperatures</p>

## FORM

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

<p>Areas of application</p>	<p>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)</p> <p>Areas where there is a risk of electrostatic discharge (ESDS/ESD)</p> <p>E.g. airports, airplane construction, automobile manufacturing            No scratches from metal parts            Close to induction loops / metal detectors</p> <p>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.</p>
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<b>FEATURES</b>		
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)	<ul style="list-style-type: none"> <li>Expanded size range: available in sizes 36 - 48</li> </ul>	
Certification in accordance with DGUV rule 112-191	<ul style="list-style-type: none"> <li>Certified for orthopaedic inserts</li> </ul>	
Padded upper edge	<ul style="list-style-type: none"> <li>Excellent wearing comfort: the padded upper edge protects the Achilles tendon.</li> </ul>	
Padded tongue	<ul style="list-style-type: none"> <li>Excellent wearing comfort: The tongue prevents pressure marks.</li> </ul>	
Heel loop	<ul style="list-style-type: none"> <li>Quicker into the shoe: The heel loop makes it easier to get inside the shoe</li> </ul>	
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.	
No metal or leather	<ul style="list-style-type: none"> <li>Low weight</li> <li>Suitable for work areas sensitive to metal</li> <li>Does not trigger metal detectors</li> <li>Use around induction loops is possible</li> <li>Suitable for persons allergic to leather</li> </ul>	
<b>UPPER MATERIAL</b>		
Hydrophobized textile material with recycled material content	<ul style="list-style-type: none"> <li>Areas of application S2/S3</li> <li>Synthetic material with recycled material content</li> <li>Shape-retaining</li> <li>Tear-resistant</li> <li>Dries quickly</li> <li>Wear-resistant and light</li> <li>Water penetration/absorption in accordance with EN ISO 20345 S2</li> <li>By hydrophobation, higher resistance against water penetration and water absorption</li> </ul>	
<b>LINING</b>		
Breathable fabric lining with recycled material content	<ul style="list-style-type: none"> <li>Climate-regulating</li> <li>Good ventilation</li> <li>Skin-friendly</li> <li>High absorption and emission of moisture</li> </ul>	
Heel pocket lining	<ul style="list-style-type: none"> <li>The abrasion-resistant microfibre material is particularly sturdy and provides for a pleasant wearing comfort.</li> </ul>	

## 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