# TECHNICAL DATA SHEET

## MILES BOA® Mid ESD S3 No. 769491 Sz. 40 - 48







## LABELLING ACCORDING TO STANDARD

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|---|---|
| Standard for safety footwear EN ISO 20345 S3 | Basic requirement for S3: **A** Antistatic shoe - **E** Energy absorption in the heel - **FO** Fuel resistance - **WRU** Water penetration and water absorption resistant upper - **P** Penetration resistance - Closed heel area - Profiled outsole |
| 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. |

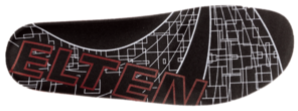
## FORM

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

## AREAS OF APPLICATION

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| Areas of application | Indoors and outdoors<br>Areas where exposure to moisture is expected (S2)<br>Areas where there is a risk of penetration from pointed and sharp objects (S3)<br><br>Areas where there is a risk of electrostatic discharge (ESDS/ESD)<br><br>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.<br><br>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 |
| 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. |
| 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 | Delivering fit solutions purpose-built for performance, the BOA® Fit System is featured in products across industries (including sports, workwear and medical) and consists of three integral parts: a micro adjustable dial, a super-strong lightweight lace and low friction lace guides. Each unique configuration is engineered for fast, effortless, precision fit and is backed by the BOA® Guarantee. |
| Abrasion-resistant toe protection | • Directly applied to the upper in the shoe tip area<br>• Excellent wear protection in the shoe tip area<br>• Protects the upper in this critical area against premature wear |
| Ergonomic Product IGR certification | The IGR quality seal (Interessengemeinschaft der Rückenschullehrer/-innen e.V. / Association of back specialists) confirms the highly praised features and practical functionality of the tested products. The IGR certification attests the degree of the product's customisability to the physical characteristics of the test person. In accordance with DIN 33419 / EN ISO 15537, the product's usability and ergonomics were tested. Products recommended by IGR e.V. bear the title "Ergonomic Product". |
| **UPPER MATERIAL** | |
| Cowhide leather | • Areas of application S1/S2/S3<br>• Natural material<br>• Wear-resistant<br>• Breathable<br>• Water penetration/absorption in accordance with EN ISO 20345 S2 |
| Hydrophobized nubuck leather | • Areas of application S2/S3<br>• Natural material<br>• Wear-resistant<br>• Breathable<br>• Water penetration/absorption in accordance with EN ISO 20345 S2<br>• By hydrophobation, higher resistance against water penetration and water absorption |

| LINING | |
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| Breathable fabric lining | • Climate-regulating<br>• Good ventilation<br>• Skin-friendly<br>• 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** | |
| Composite toe cap  | • Protection against impacts of min. 200 joules and pressure loading of min. 15 kN<br>• Permanent edge coverage for cushioning<br>• Ergonomically shaped<br>• Comfortable toe room<br>• Good coverage of the little toe area<br>• Low weight - weighs less than conventional steel caps<br>• 100% metal-free<br>• 100% anti-magnetic |
| **INLAY SOLE** | |
| Full-length inlay sole ESD PRO  | • 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.<br>• The full-length, exchangeable inlay sole provides the highest possible comfort in safety shoes.<br>• The inlay sole is functionally absorbing and releasing moisture and thus provides for a pleasant foot climate.<br>• The extreme softness of the PU foam absorbs shocks on impact and increases walking comfort.<br>• Improvement of the shoe climate thanks to the PU foam's open cell structure. So the foot is always kept comfortably dry. |
| **INSOLE** | |
| ESD soft-fleece insole with integrated omissions  | ESD equipment: Protection against electrostatic discharge (ESD), and without using additional means fulfilling a bridge function to the outsole.<br>• Integrated omissions supports the cushioning effect<br>• Approximately 50 % lighter than comparable soles made of natural materials<br>• Flexible and shape-retaining<br>• Good air permeability<br>• Excellent wear resistance<br>• High moisture absorption<br>• Quick drying (virtually overnight) |

| PENETRATION RESISTANCE | |
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| Steel midsole | Best possible protection from below: The corrosion-resistant midsole made of stainless steel complies with the penetration safety standard EN 12568 and furthermore fulfils the additional requirements for penetration protection in accordance with EN ISO 20344 / 20345. Particularly recommendable when working in areas where there is an increased risk of injuries due to pointed or sharp objects, such as in the construction industry. |
| **OUTSOLE** | |
| WELLMAXX double-density sole with profile | • Excellent slip resistance<br>• Antistatic |
| | Outsole: TPU (thermoplastic polyurethane)<br>• Colour: translucent<br>• Profile depth: 3.0 mm<br>• Particularly abrasion-resistant<br>• Heat-resistant to approx. 130°C<br>• Flexible at cold temperatures to approx. -30°C<br>• Oil and fuel resistant |
| | Midsole: PU (polyurethane) with a core made of Infinergy® by BASF<br>• The soft PU core provides a good impact absorption and high wearing comfort<br>• The core made of Infinergy® provides a very good cushioning with rebound effect |

## OUTSOLE




ERGONOMIC OUTSOLE WELLMAXX

**01 PIVOT POINT** The solution! The pivot point in the sole decisively reduce frictional resistance during rotational movements.

**02 S-LINE** The configuration of the tread bars follows an S-line, which supports the physiological rolling of the foot.

**03 FLEX GROOVES** They facilitate improved physiological rolling of the foot and easier physiological bending during kneeling activities.

**04 LIMITING THE RISK OF STUMBLING AND TWISTING** Both ends of the sole exhibit a negative profile, which prevents „sticking", in particular with turning movements and when setting the foot down.

**05 HONEYCOMB** Increased slip resistance on smooth industrial floors. These ensure good slip resistance and optimum stability when standing.

**06 INFINERGY®** The outstanding cushioning characteristics of Infinergy® steadily prevent the joints from damage. The wearer’s feet remain fitter with Infinergy®. Furthermore, they tire less quickly.