TECHNICAL DATA SHEET

OWEN black Mid ESD S2 No. 769470 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.

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) 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. 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.

FEATURES	
Certification in accordance with DGUV rule 112-191	• Certified for orthopaedic inserts
Padded tongue	• Excellent wearing comfort: The tongue prevents pressure marks.
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.
Leather-free equipment	• Suitable for persons allergic to leather
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	
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
Mesh material	• Areas of application S1 • Synthetic material • 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

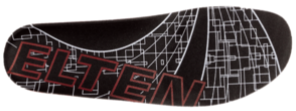
LINING

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 • Permanent edge coverage for cushioning • Ergonomically shaped • Comfortable toe room • Good coverage of the little toe area • Low weight - weighs less than conventional steel caps • 100% metal-free • 100% anti-magnetic

INLAY SOLE

Full-length inlay sole ESD PRO (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. • 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.

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. • Integrated omissions supports the cushioning effect • 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	
WELLMAXX double-density sole with profile	• Excellent slip resistance • Antistatic
	Outsole: TPU (thermoplastic polyurethane) • Colour: translucent • Profile depth: 3.0 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

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.