# HONEYWELL OTTER PREMIUM GUARD MID

## Take a Step Ahead in Quality.

When it comes to safety, always settle for more. A world-renowned leader in safety innovation, Honeywell has joined hands with Otter, respecting its German quality values and committing to taking them further. Honeywell Otter Premium combines the heritages of the two brands, addressing workers in construction, chemical, or industrial maintenance and many other industries who need premium-quality protective work shoes with effective performances. With an iconic, traditional design, Honeywell Otter Premium footwear provides increased protection, enhanced stability and improved comfort. Benefit from great slip and anti-puncture protection, high shock absorption, antistatic properties plus high- and low-temperature resistance, being fully aware when your shoes wear off with their unique indicators. Enjoy comfort for long-time use due to Honeywell Otter Premium's modular insole system created to offer a perfect fit for everyone.


### GUARD MID
### S3 HI HRO SRC ESD

- Extra wide metallic toecap
- TPU overcap
- Mid-cut style
- High quality full grain leather upper
- Black mesh lining with foam
- Stainless steel anti-perforation interlayer
- PU/Nitrile outsole
- Wear off indicators
- HI marking: resistance to inimical environments - heat insulation of the sole complex
- HRO marking: resistance to hot contact
- ESD marking: electrical resistance
- EN ISO 20345:2011 S3 HI HRO SRC ESD
- DGUV 112-191 coming soon

## PERFORM BEYOND STANDARDS

After demonstrating compliance with all applicable regulations, Honeywell has gone the extra mile to prove that the Otter Premium range takes you a step ahead of requirements*:

**1. Longitudinal flexibility – strength to bend the sole up to 45°** – The longitudinal flexing compliance of Guard Mid has an average value of 3.17 daN, which translates into excellent flexibility, more comfort and less fatigue.

**2. The breathability of the whole shoe** – The average amount of water (sweat) that evaporates from Guard Mid is of 1.64 grams in one hour, which translates into reduced sweating, improved comfort and high breathability.

**3. Internal torsion rigidity in the waist area** – Tests have shown that Guard Mid provides improved comfort and safety outdoors by preventing foot twisting when walking: 6.8 N.m.

**4. The sole's transfer coefficient** – The impact transmitted through the sole to the wearer shows Guard Mid's impact energy absorption is excellent: the heel absorbs 10% of the impact in the outsole.

**5. The energy return from the sole** – Guard Mid causes less fatigue due to the improved sole, which absorbs, stores and returns kinetic energy to the wearer, supporting the muscles during the natural walking motion:

- the transmitted energy is of 2,580 N
- the restored energy is of 1,714 N
- the percentage of transmitted energy is of 66.5%

Honeywell

OTTER

*) Test results represent average values.

# ALL-ROUND PERFORMANCE – AT YOUR FEET

## TOECAP

- Extra wide metallic toecap
- Durable, metallic, anti-perforation interlayer (1,100 N)

## SOLE

- 8 wear-off indicators on the outer layer
- Heel shock absorption system
- PU/Nitrile outsole
- On steel floor: 0.16 heel (minimum standard 0.13)
- Flat: 0.18 (minimum standard 0.18)
- On ceramic floor: 0.37 heel (minimum standard 0.28)
- Flat: 0.37 (minimum standard 0.32)
- Energy absorption capacity >20 J
- Abrasion resistance: loss in volume <150 mm3 (under a 10 Newtons (1 kg) load)
- Elongation at break: 650%
- Resistance to repeated flexion optimized: >30,000
- Flexometer tested – standard: >30,000
- Resistance to fuel oil

## TECHNICAL SPECIFICATIONS AND STANDARDS:

- European Regulation: (EU) 2016/425*
- Standard: EN ISO 20345:2011**
- Quality assurance: ISO 9001 Version 2015***
- Marking: S3 HI HRO SRC ESD
- Average weight for 1 shoe 42 size: 759 g

*) https://osha.europa.eu/en/safety-and-health-legislation
**) https://www.iso.org/home.html
***) https://group.bureauveritas.com/

## OUTSOLE SLIP RESISTANCE PERFORMANCE

| MARKING | SURFACE | LUBRICANT | FRICTION FACTOR: FLAT |
|---|---|---|---|
| SRA | Ceramic plates | Sodium lauryl sulfate | 0.37 (minimum requirement 0.32) |
| SRB | Steel | Glycerol | 0.18 (mimimum standard 0.18) |
| SRC | Meets requirements of the above 2 tests (SRA plus SRB) | | |

## ORDERING INFORMATION

| DESCRIPTION | REF. | SIZE |
|---|---|---|
| Guard Mid S3 HI HRO SRC ESD | 65 516 21 | 36-48 |