

# HONEYWELL OTTER FLEX

Tradition Meets Technology



**Honeywell**





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# ADAPT. STEP. FLEX. RELAX.

The human foot is created for mobility. The Honeywell Otter Flex range has combined Honeywell's latest technological innovations and Otter's renowned German quality into a modern design to provide superior protection and an easy, natural flexing motion.

Wearing rigid, poorly fitting safety shoes during long work hours can cause significant discomfort and affect employee performance and morale. A world leader in safety innovation, Honeywell has joined hands with Otter, a German safety shoe brand dating back to 1887, to bring foot protection to the next level.

Enjoy ultimate safety, comfort and fit with Honeywell Otter Flex's incorporated technological inventions. The uniquely designed, soft heel inserts provide excellent shock absorption, reducing fatigue and relieving the stress on your joints. The patented Flex Fit lacing system respects individual foot anatomy and needs for movement while securing ankle stability and a strong tide. The patented Otter MFUS metatarsal bandages ensure a personalized fit and foot support while maintaining flexibility.



## INDUSTRIES

- Logistic and transportation
- Light industry
- Industrial maintenance
- General manufacturing
- Automotive
- Construction

For an even more comfortable walking experience, the orthopedic insoles further enhance comfort, providing more cushioning and reducing foot fatigue. Made from a combination of polyurethane (PU) and thermoplastic polyurethane (TPU), the outsoles ensure great slip and abrasion resistance, the high-quality steel plate insoles offer protection against perforation risks, while the composite and fiberglass toe cap delivers high impact protection.

Rely on your good-quality, durable shoes and quickly notice when it's time to replace them due to their unique wear-off indicators. Created for both indoor and outdoor rough work conditions, Honeywell Otter Premium shoes offer you the protection you need, the comfort you want and the quality you deserve. All developed through technological innovations.

## KEEP IN STEP WITH TECHNOLOGY

Honeywell Otter Flex has been developed to fully deliver on your safety and comfort needs with patented technologies that improve your walking experience.

### THE UNIQUE DESIGN OF THE HEEL INSERTS



The patented heel inserts, made of soft PU foam, provide enhanced shock absorption, improve comfort and reduce foot fatigue.

### THE FLEX FIT LACING SYSTEM



The innovative lacing system secures the foot firmly while respecting individual foot anatomy and allowing a natural movement.

### THE OTTER MFUS



The metatarsal bandages wrap around the feet to ensure foot support and a personalized fit while maintaining flexibility.

## DISCOVER A NEW WALKING EXPERIENCE

- Good slip and abrasion resistance
- Enhanced shock absorption
- Super flexibility
- Great stability and adjustability
- Personalized fit and foot support
- Comfort for long term use
- Toe impact protection
- Puncture resistance
- Antistatic protection
- Wear off indicators
- Good quality materials
- Enhanced durability
- Modern design
- Wide size range: 35 - 49

## THE VALUE LIES IN THE DETAILS



## STANDARDS

- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S2 SRC ESD
- DGUV 112-191 coming soon

# STANDARD COMPLIANCE? DARE FOR MORE.

Protective footwear must comply with EN standards and applicable norms for worker safety within various professional fields. Tests have shown that Honeywell Otter Flex shoes perform better than required, providing enhanced protection, durability, breathability and comfort.

## TEST RESULTS<sup>1</sup>:

### MORE PROTECTION

- 242.87% more tear strength than the level required by the standard. The outsole recorded a value of 27.43 kilonewton meters (kN/m), compared to 8 kN/m, the level required by the standard.
- 7.57% more slip resistance. Otter Flex has an impact resistance of 15.06 millimetres (mm) (42 left & 42 right), up against the level required by the standard, of 14 mm.
- 9.37% more impact resistance SRA<sup>2</sup> (flat). Otter Flex has an slip resistance of 0.35, compared to the standard level of 0.32.
- 25% more slip resistance SRA (heel). Otter Flex provides slip resistance level of 0.35, exceeding the standard level of 0.28.
- 11.11% more slip resistance SRB<sup>3</sup> (flat). Otter Flex has a slip resistance value of 0.20 up against the level required by the standard of 0.18.
- 15.38% more slip resistance SRB (heel). Otter Flex has a slip resistance of 0.15, exceeding the standard level of 0.13.

### MORE DURABLE LINING

#### Tear strength:

- **226.67%** more than the standard. Breather Air has a tear strength of 49 newtons (N), up against the standard level of 15 N.
- **300%** more than the standard. Breather, Breather Mid and Breather MFUS have a tear strength of 60 N, exceeding the level required by the standard of 15 N.
- **173.33%** more than the standard. Expander, Adjuster, Mover and Shaper have a tear strength of 41 N, compared to the standard level of 15 N.
- **160%** more than the standard. Advancer, Advancer Mid S2, Advancer Mid S3 and Advancer X recorded a tear strength of 39 N, exceeding the standard level of 15 N.

#### Water permeability:

- **2,870%** more than the standard. Breather Air has a water permeability level of 59.4 milligrams per square centimetre per hour [mg/(cm<sup>2</sup>.h)], up against the standard level of 2.
- **5,040%** more than the standard. Breather, Breather Mid and Breather MFUS have a water permeability index of 102.8, exceeding the level required by the standard, of 2 mg/(cm<sup>2</sup>.h).
- **3,065%** more than the standard. Expander, Adjuster, Mover and Shaper have a water permeability level of 63.3, up against the standard level of 2 mg/(cm<sup>2</sup>.h).
- **4,090%** more than the standard. Advancer, Advancer Mid S2, Advancer Mid S3 and Advancer X have a water permeability level of 83.8 mg/(cm<sup>2</sup>.h), compared to the standard level of 2 mg/(cm<sup>2</sup>.h).

#### Water coefficient:

- **2,274%** more than the standard. Breather Air have a water coefficient level of 474.8 milligrams per square centimetre (mg/cm<sup>2</sup>), exceeding the standard level of 20 mg/cm<sup>2</sup>.
- **4,013.5%** more than the standard. Breather, Breather Mid and Breather MFUS have a water coefficient level of 822.7, up against the standard level of 20 mg/cm<sup>2</sup>.
- **2,431.5%** more than the standard. Expander, Adjuster, Mover and Shaper MFUS have a water coefficient level of 506.3, exceeding the standard level of 20 mg/cm<sup>2</sup>.
- **3,252%** more than the standard. Advancer, Advancer Mid S2, Advancer Mid S3 and Advancer X have a water coefficient level of 670.4, up against the standard level of 20 mg/cm<sup>2</sup>.

<sup>1</sup> Average results for FR 42 size

<sup>2</sup> Slip resistance on floors with ceramic tiles with sodium lauryl ether sulphate (SLS) solution.

<sup>3</sup> Slip resistance on a steel surface with glycerol. If a product passes the SRA test, it can be tested for SRB rating.

Once it has achieved both, it achieves SRC certification

## MORE BREATHABILITY

### Tear strength of the upper :

- **139.17%** more than the standard. Breather Air's has a tear strength of 143.5 N, exceeding the standard level of 60 N.
- **114.17%** more than the standard. Breather has a tear strength of 128.5 N, up against standard level of 60 N.
- **108.33%** more than the standard for Breather Mid and Breather MFUS have a tear strength of 125 N, compared to the standard level of 60 N.
- **50%** more than the standard. Expander has a tear strength of 180 N, up against standard level of 120 N.
- **66.25%** more than the standard. Adjuster has a tear strength of 199.5 N, exceeding standard level of 120 N.
- **62.5%** more than the standard. Mover has a tear strength of 195, up against the standard level of 120 N.
- **80%** more than the standard. Shaper's tear strength is 150 N, exceeding the standard level of 120 N.
- **66.67%** more than the standard. Advancer, Advancer Mid S2 and Advancer Mid S3 have a tear strength of 200, compared to the standard level of 120 N.
- **139.17%** more than the standard. Advancer X has a tear strength of 193.5 N, exceeding the standard level of 120 N

### Water permeability of the upper

- **2543.75%** more than the standard. Breather Air has a water permeability index of 21.15 mg/(cm<sup>2</sup>.h), exceeding the standard level of 0.8 mg/(cm<sup>2</sup>.h).
- **500%** more than the standard. Breather has a water permeability index of 4.8 mg/(cm<sup>2</sup>.h), up against the standard level of 0.8 mg/(cm<sup>2</sup>.h).
- **308.33%** more than the standard. Breather Mid and Breather MFUS have a water permeability index of 3.27 mg/(cm<sup>2</sup>.h), exceeding the standard level of 0.8 mg/(cm<sup>2</sup>.h).
- **875%** more than the standard. Expander has a water permeability index of 7.8 mg/(cm<sup>2</sup>.h), up against the standard level of 0.8 mg/(cm<sup>2</sup>.h).
- **1131.25%** more than the standard. Adjuster has a water permeability index of 11.45 mg/(cm<sup>2</sup>.h), exceeding the standard level of 0.8 mg/(cm<sup>2</sup>.h).
- **875%** more than the standard. Mover has a water permeability index of 7.8 mg/(cm<sup>2</sup>.h), up against the level required by the standard of 0.8 mg/(cm<sup>2</sup>.h).
- **1131.25%** more than the standard. Shaper has a water permeability index of 9.85 mg/(cm<sup>2</sup>.h), exceeding the level required by the standard of 0.8 mg/(cm<sup>2</sup>.h).
- **100%** more than the standard. Advancer, Advancer Mid S2 and Advancer Mid S3 have a water permeability index of 0.8 mg/(cm<sup>2</sup>.h), up against the level required by the standard of 0.8 mg/(cm<sup>2</sup>.h).
- **137.50%** more than the standard. Advancer X has a water permeability index of 1.9 mg/(cm<sup>2</sup>.h), compared to the level required by the standard of 0.8 mg/(cm<sup>2</sup>.h).

### Water coefficient :

- **1037.67%** more than the standard. Breather Air has a water coefficient 170.65 mg/cm<sup>2</sup>, exceeding the standard level of 15 mg/cm<sup>2</sup>.
- **167.33%** more than the standard. Breather has a water coefficient of 40.1 mg/cm<sup>2</sup>, up against the standard level of 15 mg/cm<sup>2</sup>.
- **82.44%** more than the standard. Breather Mid and Breather MFUS have a water coefficient of 27.37 mg/cm<sup>2</sup>, compared to the standard level of 15 mg/cm<sup>2</sup>.
- **345.33%** more than the standard. Expander and Mover have a water coefficient of 66.8 mg/cm<sup>2</sup>, exceeding the standard level of 15 mg/cm<sup>2</sup>.
- **566.67%** more than the standard. Adjuster has a water coefficient of 100 mg/cm<sup>2</sup>, up against the standard level of 15 mg/cm<sup>2</sup>.
- **450.67%** more than the standard. Shaper has a water coefficient of 82.6 mg/cm<sup>2</sup>, compared to the standard level of 15 mg/cm<sup>2</sup>.
- **34%** more than the standard. Advancer, Advancer Mid S2 and Advancer Mid S3 have a water coefficient of 20.1 mg/cm<sup>2</sup>, exceeding the standard level of 15 mg/cm<sup>2</sup>.
- **28.67%** more than the standard. Advancer X has a water coefficient of 19.3 mg/cm<sup>2</sup>, up against the standard level of 15 mg/cm<sup>2</sup>.



# HONEYWELL OTTER FLEX STYLES



## BREATHER S2 SRC ESD

- Patented soft heel insert
- Patented Flex Fit lacing system
- Low-cut style
- Durable textile fabric upper
- TPU coat
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S2 SRC ESD



## BEATHER AIR S1 SRC ESD

- Patented soft heel insert
- Low-cut style
- Knitted ultra breathable upper
- TPU coat
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S1 SRC ESD



## BREATHER MFUS S2 SRC ESD

- Patented soft heel insert
- Patented Flex Fit lacing system
- Patented Otter MFUS metatarsal bandages
- Low-cut style
- Durable textile fabric upper
- TPU coat
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S2 SRC ESD





### **BREATHER MID S3 SRC ESD**

- Patented soft heel insert
- Patented Flex Fit lacing system
- Mid-cut style
- Durable textile fabric upper
- TPU coat
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S3 SRC ESD



### **EXPANDER S1 SRC ESD**

- Composite - fiberglass - toecap
- Low-cut sandal
- High quality Nubuck leather and durable textile fabric upper
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S1 SRC ESD



### **ADJUSTER S2 SRC ESD**

- Composite - fiberglass - toecap
- Low-cut style
- High quality Nubuck and suede leather upper
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S2 SRC ESD



## **MOVER S1 SRC ESD**

- Composite - fiberglass - toecap
- Low-cut style
- Durable textile fabric upper
- PU coat
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S1 SRC ESD



## **SHAPER S2 SRC ESD**

- Composite - fiberglass - toecap
- Mid-cut style
- High quality Nubuck leather and durable textile fabric upper
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S2 SRC ESD



## **ADVANCER S2 SRC ESD**

- Composite - fiberglass - toecap
- Low-cut style
- High quality full grain leather upper
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S2 SRC ESD



### **ADVANCER MID S2 SRC ESD**

- Composite - fiberglass - toecap
- Mid-cut style
- High quality full grain leather upper
- Durable, breathable lining
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S2 SRC ESD



### **ADVANCER MID S3 SRC ESD**

- Composite - fiberglass - toecap
- Mid-cut style
- High quality full grain leather upper
- Durable, breathable lining
- Stainless steel anti-perforation interlayer
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S3 SRC ESD



### **ADVANCER X S3 SRC ESD**

- Composite - fiberglass - toecap
- Mid-cut style
- High quality full grain leather and durable textile fabric upper
- Durable, breathable lining
- Stainless steel anti-perforation interlayer
- PU/TPU outsole
- Wear off indicators
- EN 61340-5-1:2016 - ESD marking (electrical resistance)
- EN ISO 20345:2011 S3 SRC ESD





# ORDERING INFORMATION

## HONEYWELL OTTER FLEX ORDERING INFORMATION

PRODUCT NAME	SKU	DESCRIPTION
Breather S2 SRC ESD	65 516 25	Low-cut style
Breather Air S1 SRC ESD	65 516 24	Low-cut style
Breather MFUS S2 SRC ESD	65 516 27	Low-cut style
Breather Mid S3 SRC ESD	65 516 26	Mid-cut style
Expander S1 SRC ESD	65 516 28	Low-cut style
Adjuster S2 SRC ESD	65 516 29	Low-cut style
Mover S1 SRC ESD	65 516 30	Low-cut style
Shaper S2 SRC ESD	65 516 31	Mid-cut style
Advancer S2 SRC ESD	65 516 32	Mid-cut style
Advancer Mid S2 SRC ESD	65 516 33	Mid-cut style
Advancer Mid S3 SRC ESD	65 516 34	Mid-cut style
Advancer X S3 SRC ESD	65 516 35	Mid-cut style

### For More Information

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