



# H-9552 IceGrip

## Cold Resistant & Water Resistant Work Boots

- Upper:** Full-grain cow leather with waterproof YKK side zipper
- Waterproof Lining:** Sanvlar-tex™ water-resistant membrane
- Thermal Insulation:** 3M™ Thinsulate™ 400 g insulation
- Footbed / Insole:** Cold-resistant memory foam insole
- Outsole:** IceGrip PU/Nitrile rubber outsole
- Toe Protection:** VortiGard™ composite toe cap
- Penetration Protection:** VortiGard™ Kevlar® anti-penetration midsole
- Size Range:** EU 37–47 | UK 3–13 | US 4–14
- Safety Standard:** CE EN ISO 20345:2022+A1:2024 S7S SR CI HI FO HRO
- Ice Slip Resistance:** SATRA TM144:2021 Ice Surface Test  $\geq 0.19$  COF
- Applications:** Cold storage facilities, ice storage areas, frozen food processing plants, cold-chain logistics and warehouses, low-temperature laboratories, and winter outdoor work environments.

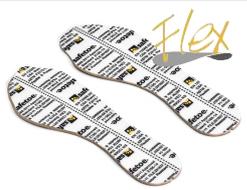


- 200 JOULE TOE CAP
- SLIP-RESISTANT
- SHOCK ABSORPTION
- ANTI-STATIC
- ANTI-NAIL MIDSOLE
- PETROL AND CHEMICAL RESISTANT
- WATER RESISTANT
- OIL RESISTANT



### VortiGard™ Composite Toe Cap • EN ISO 20345

Composite toe cap is lightweight and non-magnetic. It provides impact resistance up to 200 J and compression resistance up to 15 kN, protecting feet from falling or rolling objects.



### VortiGard™ Kevlar Plate (Type PS) • EN ISO 20345

Kevlar midsole plate is flexible and non-metallic. It provides penetration resistance up to 1100 N against nails or other sharp objects and withstands  $1 \times 10^6$  flex cycles without visible cracking.



### LeatherQua™ Full Grain Cow Leather • EN ISO 20345

High-quality full-grain smooth cow leather with thickness 1.6–1.8 mm. Treated with a water-resistant coating to help keep feet dry during wet or rainy working conditions. Tear strength up to 120 N.

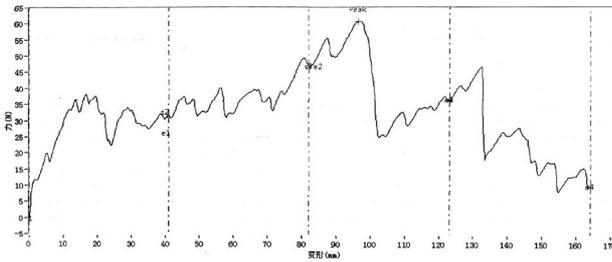


### QuantumHold™ PU/Rubber Outsole • EN ISO 20345

IceGrip PU/Nitrile rubber outsole is manufactured with German PU injection technology. The PU midsole ( $45 \pm 5$  Shore A) provides cushioning & shock absorption. The specially formulated nitrile rubber outsole offers excellent ice slip resistance (SATRA TM144  $\geq 0.19$  COF), cold resistance & abrasion resistance.

## Sole Bonding Strength Test

- EN ISO 20345:2022, 5.3 (Between Upper & Sole)
- Average Test Result  $5.8 \pm 5$  (N/mm)



### Upper, Lining & Bonding Strength Test Result

Leather Tear Strength $\geq$	120.0 Newtons
Leather Tensile Properties $\geq$	15.0 N/mm <sup>2</sup>
Lining Tear Strength $\geq$	15.0 N/mm
Bonding Strength $\geq$	4.0 N/mm

✓ Protection With Cold Insulation (CI)	Result
Test Requirement : Temperature Decrease on upper surface of insock $\leq 10^{\circ}\text{C}$	PASS
Standards : EN ISO 20345:2022(6.2.3.2) , Temperature of cold box: $-30^{\circ}\text{C}$ , Period: $30 \pm 1$ minutes	
✓ Protection With Slip Resistant (SR)	Result
Test Requirement : Forward Heel Slip $\geq 0.31$ ( Test method L ISO 13287:2019) Backward Forepart Slip $\geq 0.36$ ( Test method L ISO 13287:2019)	PASS
Standards : EN ISO 20345:2022(5.3.5) , Test floor: Ceramic tile, Lubricant: Sodium lauryl sulphate	
✓ Protection With Water Resistant (WR)	Result
Test Requirement : No Water Penetration through Whole Footwear.	PASS
Standards : EN ISO 20345:2022 (6.2.5) Water Level: 20mm above the feather line, Period: $80 \pm 5$ minutes	
SAFETOE Standard Package Instruction (Average 42# for Reference)	
Shoes Weight : 1.3-1.4 KGS /Pair	Carton Weight : 14-15 KGS /Carton
1 Pair / Color Box , Dimensions : $32 \times 28 \times 12\text{CM}$	10 Pair / Carton , Dimensions : $62 \times 57 \times 33\text{CM}$



### User Instructions:

- 1.) RECOMMENDED TO USE : Cold storage facilities, ice storage areas, frozen food processing plants, cold-chain logistics and warehouses, low-temperature laboratories, and winter outdoor work environments.
- 2.) LIMITATION TO USE: It is very important that footwear selected must be suitable for the right workplaces. The protection against risks or hazards which are not mentioned in this document is not warranted.
- 3.) FITTING & SIZE: All footwear are marked with standard size on tongue label. Some are with different size comparison, such as EU size, UK size, US size etc. Please wear footwear in a suitable size.

Footwear which are too loose or too tight may not provide optimum level of protection.

- 4.) STORAGE: Keep the footwear in its original packaging, under ordinary temperature, non-humidity conditions and in clean, covered and ventilated premises.
- 5.) CLEANING: Clean footwear regularly by high quality cleaning treatments recommended as suitable for the purpose. Don't use caustic or corrosive cleaning agents.