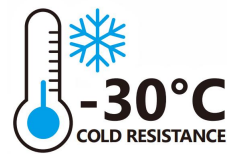




# M-8551 Winter S3

## Cold Resistant Winter Work Boots



Upper : Full Grain Embossed Cow Leather  
 Lining : Cold Resistant 100% Genuine Lamb Fur  
 Insole : Soft EVA+Genuine Lamb Fur  
 Outsole : QuantumHold™ PU/Nitrile Rubber Injection  
 Toecap : VortiGard™ Composite Toecap  
 Penetration : VortiGard™ Kevlar Midsole Plate  
 Size : EU 37-47#, UK 3-13#, US4-14#  
 CE EN ISO 20345:2022+A1:2024 S3S SR CI HI FO HRO

ASTM E 2149-2020 Approved Anti-bacterial Lining & Insole (Odor Resistant)

Application : Cold Storage, Ice Storage, Frozen Food Processing, Frozen Chain Logistics & Warehouse, Low-temperature Lab, Winter Outdoor Works etc etc



### VortiGard™ Composite Toe Cap • EN ISO 20345:2022

Compoiste Toecap is light-weight and non-magnetic. The impact resistance can reach 200 joules from falling or rolling objects. The compression resistance can reach 15kN.



### VortiGard™ Kevlar Plate (Type PS) • EN ISO 20345:2022

Kevlar midsole plate is flexible and non-metallic. The penetration resistance can reach 1100 newtons from nail or other sharp objects. The flex resistance can reach to  $1 \times 10^6$  flexion cycles without visable cracking.



### Full Grain Cow Leather Upper • EN ISO 20345:2022

High quality embossed cow leather with thickness 1.6-1.8mm. It is treated with water resistant coating to protect feet from raining workday. The tear strength of upper leather can reach to 120 Newtons.

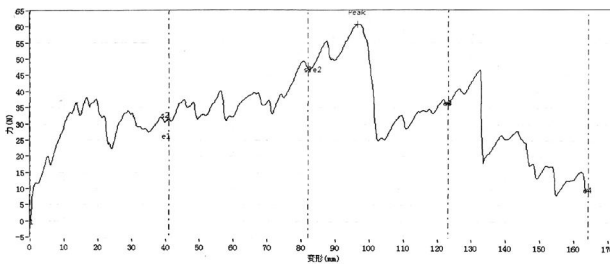


### QuantumHold™ PU/Rubber Outsole • EN ISO 20345:2022

PU/Rubber outsoles are manufacturerd with Germany Fully Automatic Injection Technology. The midsole is  $45 \pm 5$  degree hardness PU, which is soft and shock absorption. The outsole is natural rubber with 5%-10% nitrile, which is cold resistant, slip resistant and abrasion resistant.

## 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 Resistant to Fuel Oil		Result
Test Requirement : Change in Volume and Change in Hardness (Outsole) is No More Than $+12\%$ (*)		PASS
Standards : EN ISO 20345:2022 (6.4.2)		
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 : $32 \times 23 \times 12\text{CM}$		10 Pair / Carton , Dimensions : $62 \times 47 \times 33\text{CM}$



### User Instructions:

- 1.) RECOMMENDED TO USE : Cold Storage, Ice Storage, Frozen Food Processing, Frozen Chain Logistics & Warehouse, Low-temperature Lab, Winter Outdoor Works etc etc.
- 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.