



**safetoe**  
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Top Quality  
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Amazing Comfort



Keep Worker in Safe!

# Insulated Cold Storage & Winter Safety Boots

**Model: M-8027PR (Cold Guarder)**

- Upper:** Durable Full-Grain Embossed Cow leather
- Lining:** BactiVoid™ Anti-odor Sandwich Mesh
- Insulation:** 3M™ Thinsulate Insulation 200 g
- Insole:** Thermal Memory Foam Insole with 3M™ Thinsulate
- Toe Protection:** VortiGard™ Composite Toe
- Penetration Protection:** VortiGard™ Kevlar Midsole
- Outsole:** Slip-resistant PU / Nitrile Rubber Outsole
- Size :** EU 37-47#, UK 3-13#, US4-14#
- EN ISO 20345:2022+A1:2024 S3S SR FO CI HI HRO**
- ASTM E 2149-2020 Approved Anti-microbial Lining & Insoles (Odor Resistant)**
- Applications:** Cold Storage, Freezer Environments & Winter Outdoor Work etc



200 JOULE TOECAP



SLIP-RESISTANT



SHOCK ABSORPTION



ANTI-STATIC



ANTI-NAIL MIDSOLE



PETROL AND CHEMICAL RESISTANT



WATER RESISTANT



OIL RESISTANT



## 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 Protection • 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 X 10<sup>6</sup> flexion cycles without visble cracking.



## LeatherQua™ Cow Leather Upper • EN ISO 20345:2022

Full Grain 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.



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

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

## 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 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 CI (Cold Insulation)	Result
Test Requirement : Max 10°C Temperature decrease on the upper surface of insock.	PASS
Standards : EN ISO 20345:2022 (6.2.3.2) Temperature $-17 \pm 2^\circ\text{C}$ , Test period: 30 minutes	
✓ Protection Resistant to Fuel Oil (FO)	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 : 1.2-1.3 KGS /Pair	Carton Weight : 13-14 KGS /Carton
1 Pair / Color Box , Dimensions : 32×24×12CM	10 Pair / Carton , Dimensions : 62×49×33CM



### User Instructions:

- 1.) RECOMMENDED TO USE : Cold Storage, Freezer Environments & Winter Outdoor Work 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.