



# M-8387 MP (WeldingGuarder Plus)

## Metatarsal Protection Work Boots

Upper : Full Grain Cow Leather +

TuffTarsal™ Protective Hard Cover

Thread: Fire-resistant Kelvar Stitching

Lining : BactiVoid™ Beathable Sandwich Mesh

Insole : Anti-fatigue Memory Foam Insoles

Outsole : QuantumHold™ PU/Rubber Injection

Toecap : VortiGard™ Composite Toecap

Penetration : VortiGard™ Kevlar Midsole Plate

Size : EU 37-47#, UK 3-13#, US4-14#

EN ISO 20345:2022+A1:2024 S3S SR FO CI HI HRO

EN ISO 20349-2:2017+A1:2020 A E P WRU SRC CI HI FO WG

ASTM E 2149-2020 Approved Anti-microbial Lining & Insoles (Odor Resistant)

Application : Welding, Metal-Works, Mechanical Processing, Tunnel Excavation, Mining, Blasting Site 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 visable cracking.



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

High quality full grain palm printed 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.

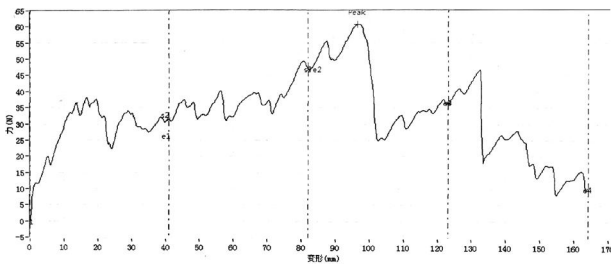


### QuantumHold™ PU/Rubber Outsole • EN ISO 20345:2022

PU/Rubber outsoles are manufacturerd with Germany Fully Automatic Injection Technology. The midsole is 45±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 heat 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 Molten Metal Splashes		Result
Test Requirement : Number of droplets required to produce a temperature rise of 40°C Molten Metal Splashes > 25 drops		PASS
Standards : EN ISO20349-2:2017+A1:2020		
✓ Protection Against Burning Behaviour		Result
Test Requirement : After-flame time $\leq$ 2s & After-glow time $\leq$ 2s & No Split Seams		PASS
Standards : EN ISO20349-2:2017+A1:2020 (7.4), EN 15090:2012 (6.3.3 & 7.3)		
✓ Protection Against Heat Risk 300°C		Result
Test Requirement : The Outsole Did Not Melt & Did Not Develop Any Cracks When Bent Around Mandrel		PASS
Standards : EN ISO 20345:2022(6.4.1). 300°C HRO=Heat Resistant		
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 : Welding, Metal-Works, Mechanical Processing, Tunnel Excavation, Mining, Blasting Site 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.