RHINO PU/PU

TECHNICAL DATA SHEET (TDS) | DOUBLE DENSITY PU SAFETY BOOT

Professional double-density polyurethane safety boot

RHINO PU/PU is designed for industrial and heavy-duty environments, providing comfort, durability and protection. The polyurethane construction combines a low-density PU upper with a high-density PU sole for lightweight performance, flexibility, insulation, slip resistance and abrasion resistance.



1 PRODUCT IDENTIFICATION

Brand	POLYTECH BOOT
Model	RHINO PU/PU
Construction	Double Density Polyurethane (PU/PU)
Category	Safety Footwear
Safety Standard	EN ISO 20345:2022 - S4 / S5 optional
Occupational Standard	EN ISO 20347 - O4
Size Range	EU 36 - 48

2 PRODUCT DESCRIPTION

Lightweight Performance	Polyurethane structure supports reduced weight
High Durability	Designed for demanding industrial and heavy-duty environments
Long Service Life	PU construction is intended for extended professional use
Material Advantage	Source TDS states PU boots are significantly lighter and longer lasting than PVC and rubber alternatives

3 APPLICATION AREAS

Agriculture & Livestock	Suitable
Construction & Industry	Suitable
Mining & Quarry	Suitable
Food Processing	Suitable
Chemical & Petrochemical	Suitable
Fisheries	Suitable

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MATERIAL, TECHNICAL & PERFORMANCE DATA

4 MATERIAL SPECIFICATIONS

Component	Material	Description
Upper	Low Density Polyurethane	Flexible, lightweight, insulating
Sole	High Density Polyurethane	Slip-resistant, abrasion-resistant
Toe Cap	Composite	Impact protection - 200 Joule
Midsole	Kevlar	Penetration protection
Insole	Removable, antibacterial	Ergonomic comfort
Lining	PU / Textile	Moisture control

5 TECHNICAL FEATURES

Anti-static (A)	Anti-static performance
Energy Absorption (E)	Energy absorption
Fuel Oil Resistant Outsole (FO)	Fuel oil resistance
Slip Resistance (SR)	Slip resistance
Cold Insulation (CI)	Cold insulation
Heat Insulation (HI)	Heat insulation
Waterproof Construction	Water resistance and protection against water penetration

6 PERFORMANCE DATA

Temperature Resistance	-40 C
Weight (Size 42)	Approx. 1.8 - 2.0 kg / pair
Impact Resistance	200 Joule
Compression Resistance	15 kN
Electrical Resistance	Anti-static

Low-temperature performance: The supplied TDS states that the PU structure maintains flexibility even at very low temperatures and resists cracking.

7 KEY ADVANTAGES

Weight Advantage	30-40% lighter than PVC/rubber boots, as stated in the supplied TDS
Long Lifespan	Long service life
High Comfort	Ergonomic design
Superior Slip Resistance	Designed for slippery working environments

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COLOR OPTIONS, CERTIFICATION & CARE

8 COLOR OPTIONS



No	Upper Color	Sole Color
1	Khaki Green	Black
2	Black	Black
3	White	Blue
4	Blue	Black
6	Orange	Black
7	Blue	Blue

9 STANDARDS & CERTIFICATION

EN ISO 20345	Safety Footwear - S4 / S5
EN ISO 20347	Occupational Footwear - O4
EU Regulation	Regulation (EU) 2016/425
CE	CE Certified
PPE Category	Category II

10 STORAGE & MAINTENANCE

Storage	Store in a dry, cool place
Sunlight	Avoid direct sunlight
Cleaning	Clean after use
Heat	Do not expose to excessive heat

11 CORPORATE CONTACT

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