RHINO
PU/TPU FLEECE

Insulated Safety Boot with Fleece (Miflon) Lining

RHINO PU/TPU FLEECE is the insulated version of the RHINO PU/TPU series.
It combines the durability and high performance of PU/TPU construction with a soft and warm fleece (miflon) lining, providing superior comfort, thermal insulation and reliable protection in cold and demanding working environments.





- Thermal Insulation
- Lightweight & Flexible
- Breathable Comfort
- Cold Weather Performance

1 PRODUCT IDENTIFICATION

Brand	POLYTECH BOOT
Model	RHINO PU/TPU FLEECE
Construction	PU upper with TPU outsole (PU/TPU)
Category	Occupational & Safety Footwear (Insulated)
Safety Standard	EN ISO 20345:2022 – S4 / S5 optional
Occupational Standard	EN ISO 20347:2022 – O4 optional
Size Range	EU 36 – 48

2 PRODUCT DESCRIPTION

Fleece (Miflon) Lining	Soft, warm and comfortable inner lining providing thermal insulation and extra comfort.
PU Upper	Lightweight, durable and flexible polyurethane (PU).
TPU Outsole	High abrasion resistance, enhanced slip resistance and long service life.
Safety Features	Composite toe cap (S4/S5) and Kevlar midsole (S5).
Main Advantages	Warmth, comfort, durability and high grip performance with PU/TPU technology.

3 KEY TECHNOLOGIES & BENEFITS



Fleece (Miflon) Lining
Thermal insulation and comfort



PU/TPU Outsole
High grip, abrasion resistance and durability

- Agriculture & Livestock
- Construction & Industry
- Mining
- Fisheries
- Food Processing
- Chemical & Petrochemical

3 MATERIAL & STRUCTURE

Upper	Low-density polyurethane (PU)
Outsole	High-density PU sole with integrated red thermoplastic polyurethane (TPU) insert
Protective toe cap	Composite; 200 J in safety configurations
Penetration protection	Kevlar midsole; S5 configuration
Footbed	Removable antibacterial comfort insole
Inner lining	Grey fleece (muflon) textile

4 FLEECE APPLICATION IN THE BOOT

Application	Fleece lining applied to the inside of RHINO boot
Purpose	Softer leg contact and improved cold-weather comfort
To be confirmed	Fiber composition, GSM, thickness, bonding method

5 FLEECE (MUFLON) BENEFITS

Thermal comfort	Fleece loft helps reduce heat transfer and retain warmth
Soft-touch	Brushed textile lining offers a comfortable contact surface
Comfort	Additional textile layer for prolonged wear in cold environments
Drying care	Allow lining to air-dry after use

6 TPU SOLE ADVANTAGES

Red TPU insert	Visible outsole performance component
Grip	Designed to enhance surface traction
Abrasion	Designed for improved wear resistance
Durability	PU/TPU combination for demanding use

7 PERFORMANCE & CERTIFICATION CHECKS

Base model data	Source TDS: -40 C; approx. 1.8-2.0 kg/pair (size 42); not verified for fleece version
Safety protection	200 J impact / 15 kN compression in certified S4/S5
Markings	Confirm SR, FO, CI, HI, A and final PPE certificates
Fleece variant	Finished-product test results and weight pending

Technical note: Thermal and safety performance must be verified on the finished fleece-lined model.

8 RHINO COLOR OPTIONS (REFERENCE)



KHAKI / BLACK



BLACK / BLACK



WHITE / BLUE



BLUE / BLACK



YELLOW / BLACK



ORANGE / BLACK



BLUE / BLUE

Color images are illustrative. Confirm TPU insert color and fleece-lined production availability.

9 FLEECE MATERIAL – VISUAL TEXTURE REFERENCES



CREAM



BEIGE



LIGHT GREY



ANTHRACITE

Texture references only; grey lining shown on the product. Exact supplied textile specification pending.

10 STORAGE & MAINTENANCE

Storage	Keep in a cool, dry, ventilated location
Cleaning	Clean exterior PU/TPU after use
Lining care	Air-dry fleece completely; avoid direct heaters
Sunlight	Avoid prolonged direct sunlight
Heat	Do not expose to excessive heat sources

12 STANDARDS & CERTIFICATION

EN ISO 20345:2022	S4 / S5 subject to final certification
EN ISO 20347	O4 as applicable to product variant
EU PPE regulation	Regulation (EU) 2016/425
Compliance	Verify finished fleece-lined model documents

Note: Fleece GSM, fiber content, insulation rating, weight and certification require verification.

11 PRODUCT HIGHLIGHTS



PU BODY + RED TPU INSERT

GREY FLEECE INTERIOR

COMPOSITE / KEVLAR OPTIONS

13 CORPORATE CONTACT

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