RHINO-R CHEST WADER

TECHNICAL DATA SHEET (TDS) | PU / RUBBER BOOT WITH WATERPROOF FABRIC UPPER

Professional waterproof chest wader with RHINO-R rubber outsole technology

RHINO-R Chest Wader combines the PolyTech RHINO-R polyurethane boot platform with a durable rubber outsole and a distinctive **red mid-stripe**, together with a waterproof PVC-coated nylon upper. The construction is intended for demanding wet and industrial environments where grip, abrasion resistance, comfort and durability are critical.





1 PRODUCT IDENTIFICATION

Brand	POLYTECH BOOT
Model	RHINO-R Chest Wader
Construction	Polyurethane boot upper + Rubber outsole + PVC-coated waterproof fabric upper
Distinctive Sole Detail	Black rubber outsole with RED mid-stripe
Category	Occupational & Safety Chest Wader
Colour	Dark / Khaki Green wader; black boot; red sole stripe
Size Range	EU 36 - 48
Boot Standards	EN ISO 20345:2022 (S4 / S5 optional); EN ISO 20347:2022 (O4 / O5 optional)

2 KEY PRODUCT FEATURES

Rubber Outsole	High slip and abrasion resistance for demanding industrial use
Red Mid-Stripe	Distinctive RHINO-R visual identity between the PU boot body and black rubber outsole
Waterproof	Full-body waterproof coverage for wet working environments
Lightweight & Flexible	Polyurethane structure supports comfort during prolonged use
Protection	Composite toe cap and Kevlar midsole in applicable safety configurations

3 APPLICATION AREAS

Agriculture & Livestock	Farm, livestock and wash-down applications
Construction & Industry	Wet and demanding industrial working environments
Mining & Quarry	Heavy-duty wet-area work subject to site risk assessment
Food Processing	Wash-down and wet processing areas
Chemical & Petrochemical	Selected applications subject to compatibility and risk assessment
Fisheries & Aquaculture	Wet processing, fish farms and related marine work

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MATERIAL & WADER FABRIC TECHNICAL DATA

4 MATERIAL & STRUCTURE

Component	Material	Description
Upper (Wader Fabric)	PVC-coated nylon fabric (420D / 400D x 400D)	Waterproof, durable and flexible
Boot Upper	Low Density PU	Flexible, lightweight and breathable
Outsole	Rubber	Slip-resistant and abrasion-resistant
Mid Stripe	Red rubber detail	Distinctive RHINO-R sole identity
Toe Cap (S4 / S5)	Composite	200 Joule impact protection
Midsole (S5)	Kevlar	Penetration resistance
Insole	Removable, antibacterial	Comfort and hygiene
Lining (Boot Part)	PU / Textile	Moisture control

5 WADER FABRIC TECHNICAL SPECIFICATIONS

Property	Requirement	Reference Standard
Fabric Description	420D / 400D x 400D / 63 x 38; PVC coated; waterproof	Supplier specification
Colour	Dark Green	Supplier specification
Width	148 - 150 cm	Supplier specification
Thickness	0.35 mm (+/- 0.10 mm)	Supplier specification
Weight	360 gsm (+/- 5%)	Supplier specification
Colour Fastness to Rubbing	Dry: Grade 4-5 / Wet: Grade 4-5	ISO 105-X12:2016
Abrasion Resistance	Min. 50,000 rubs	ISO 12947-2:2016
Tearing Strength	Warp min. 100 N / Weft min. 100 N	ISO 13937-1:2000 + Cor.1:2004
Tensile Strength	Warp min. 300 N / Weft min. 300 N	ISO 13934-2:2014
Seam Slippage	One side < 0.5 mm / other side < 0.5 mm	ISO 13936-2:2004
Pilling Resistance	Grade 5 after 5,000 revolutions	ISO 12945-2:2000
Area Shrinkage after 90 C Washing	Warp max. 3% / Weft max. 3%	Supplier specification
Hydrostatic Pressure	Min. 0.2 bar	EN ISO 811
Hydrostatic Pressure after 90 C Washing	Min. 0.2 bar	EN ISO 811

6 COLOUR & SIZE

Available Wader Colour	Dark / Khaki Green only
Boot / Sole	Black boot / black rubber outsole / RED mid-stripe
Size Range	EU 36 - 48

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BOOT SAFETY, PERFORMANCE, CARE & COMPLIANCE

7 PROTECTION & PERFORMANCE FEATURES

Composite Toe Cap (200J)	Protection against strong impacts
Kevlar Midsole	Prevents penetration from sharp objects
Abrasion Resistant Rubber Outsole	Supports long service life
Slip Resistant Outsole (SR)	High grip on wet and slippery surfaces
Cold & Heat Insulation (CI / HI)	Suitable for demanding temperature conditions
Fuel Oil Resistant Outsole (FO)	Resistance to industrial oils
Antistatic (A)	Helps prevent electrostatic discharge
Waterproof Construction	Protects against water penetration

8 PERFORMANCE DATA

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

9 SOLE & COMFORT FEATURES

Slip Resistant SR Sole	Maximum safety on slippery floors
Advanced Insole	Comfort, sweat absorption, antistatic performance and odor control
Patented Sole Design	Enhances grip while enabling easier cleaning and hygiene
Heel Support System	Provides easy removal and increases heel stability and resistance

10 STANDARDS & CERTIFICATION

EN ISO 20345:2022	S4 / S5 safety footwear configurations
EN ISO 20347:2022	O4 / O5 occupational footwear configurations
EU Regulation	Regulation (EU) 2016/425
CE / PPE	CE Certified; PPE Category II

11 STORAGE & MAINTENANCE

Storage	Store in a cool and dry place
Sunlight	Avoid direct sunlight
Cleaning	Clean after use
Heat	Do not expose to extreme heat
Inspection	Inspect fabric, seams, buckles, boot body and rubber outsole before use

Technical note: RHINO-R boot construction and performance data are based on the supplied RHINO-R TDS. The chest-wader fabric data follows the same supplier-declared fabric specification used in the existing PolyTech Chest Wader TDS format. The finished chest-wader protective classification should correspond to the certified and declared final product configuration.