RHINO CHEST WADER

TECHNICAL DATA SHEET (TDS) | PRODUCT OVERVIEW

Professional waterproof chest wader

RHINO Chest Wader combines the PolyTech RHINO double-density PU/PU safety boot platform with a durable waterproof PVC-coated nylon upper for professional use in demanding wet and heavy-duty environments.



1 PRODUCT IDENTIFICATION

Brand	POLYTECH BOOT
Model	RHINO Chest Wader
Construction	Double-density PU/PU boots + PVC-coated waterproof fabric upper
Category	Occupational & Safety Chest Wader
Colour	Dark / Khaki Green only
Size Range	EU 36 - 48
Boot Standards	EN ISO 20345:2022 (S4 / S5 optional); EN ISO 20347 (O4)

2 KEY PRODUCT FEATURES

Waterproof	Full-body waterproof coverage for wet working environments
Lightweight	Double-density polyurethane construction supports reduced weight
Durable	RHINO PU/PU boot and PVC-coated fabric selected for demanding professional use
Comfortable	Flexible construction and removable antibacterial insole
Thermal Insulation	PU structure maintains flexibility at very low temperatures and resists cracking

3 APPLICATION AREAS

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

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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 Polyurethane	Flexible, lightweight and insulating
Boot Sole	High Density Polyurethane	Slip-resistant and abrasion-resistant
Toe Cap (S4 / S5)	Composite	200 Joule impact protection
Midsole (S5)	Kevlar	Penetration resistance
Insole	Removable, antibacterial	Ergonomic comfort
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 Colour	Dark / Khaki Green only
Size Range	EU 36 - 48

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BOOT SAFETY, PERFORMANCE, CARE & COMPLIANCE

7 SAFETY CLASS DIFFERENCES - BOOT PART

Feature	O4	S4	S5
Toe Protection	-	Yes	Yes
Midsole Protection	-	-	Yes
Antistatic (A)	Yes	Yes	Yes
Energy Absorption (E)	Yes	Yes	Yes
Slip Resistance (SR)	Yes	Yes	Yes
Fuel Oil Resistant (FO)	Yes	Yes	Yes
Cold Insulation (CI)	Yes	Yes	Yes
Heat Insulation (HI)	Yes	Yes	Yes

8 BOOT 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	Antistatic

9 SOLE & COMFORT FEATURES

Low Density PU Upper	Flexible, lightweight and insulating construction
High Density PU Sole	Slip-resistant and abrasion-resistant outsole
Antibacterial Insole	Removable insole designed for ergonomic comfort
Moisture Control Lining	PU / textile lining supports moisture management

10 STORAGE & MAINTENANCE

Storage	Store in a dry, cool place
Sunlight	Avoid direct sunlight during storage
Cleaning	Clean after use
Heat	Do not expose to excessive heat
Inspection	Inspect fabric, seams, buckles and boots before use

11 STANDARDS & CERTIFICATION

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

Technical note: The RHINO boot data above follows the supplied RHINO PU/PU TDS. Fabric values are supplier-declared requirements. Protective classification of the complete chest-wader assembly should correspond to the certified and declared finished-product configuration.