GRANOX CHEST WADER

TECHNICAL DATA SHEET (TDS) | PRODUCT OVERVIEW

Professional waterproof chest wader

GRANOX Chest Wader combines the PolyTech GRANOX PU/PU boot platform with a durable waterproof PVC-coated nylon upper for professional use in demanding wet environments.



1 PRODUCT IDENTIFICATION

Brand	POLYTECH BOOT
Model	GRANOX 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 20347:2022 (O4 / O5 optional)

2 KEY PRODUCT FEATURES

Waterproof	Full-body waterproof coverage for wet working environments
Lightweight	Polyurethane boot construction supports reduced weight
Durable	PU boot and PVC-coated fabric selected for demanding professional use
Comfortable	Flexible construction and removable antibacterial insole
Thermal Insulation	GRANOX boot platform specified for cold-insulation performance

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	Wet-area 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 & Sole	Polyurethane (PU)	Lightweight, flexible, waterproof and abrasion resistant
Toe Cap (S4 / S5)	Steel toe cap	200 Joule impact protection
Midsole (S5)	Steel midsole	Penetration resistance
Insole	Removable, antibacterial	Comfort and hygiene
Lining (Boot Part)	Textile / PU	Moisture absorption

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	Up to -40 C
Weight (Size 42)	Approx. 1.8 - 2.0 kg / pair
Impact Resistance	200 Joule (S4 / S5 configurations)
Compression Resistance	15 kN (S4 / S5 configurations)
Electrical Properties	Antistatic

9 SOLE & COMFORT FEATURES

Slip Resistant SR Sole	Designed to improve safety on slippery floors
Advanced Insole	Comfort, sweat absorption, antistatic performance and odor control
Heel Support System	Supports easy removal and heel stability
Sole Design	Grip-oriented design supporting easier cleaning and hygiene

10 STORAGE & MAINTENANCE

Storage	Store in a cool, dry and ventilated place
Sunlight	Avoid direct sunlight during storage
Cleaning	Clean after use with methods compatible with PU and PVC-coated nylon
Heat	Do not expose to extreme heat
Inspection	Inspect fabric, seams, buckles and boots before use

11 STANDARDS & CERTIFICATION

EN ISO 20345:2022	S4 / S5 safety footwear configurations
EN ISO 20347:2022	O4 / O5 occupational footwear configurations
EU Regulation	Regulation (EU) 2016/425
CE / PPE	CE certified; PPE Category II as stated for the GRANOX boot platform

Technical note: Fabric values are supplier-declared requirements. Protective classification of the complete chest-wader assembly should correspond to the certified and declared finished-product configuration.