CERTIFIED PRODUCT

BOOL Protective Technologies

BW1505T1

Ultra-lightweight PPE Category 1 Hi-Vis Shirt with Segmented FR Reflective Tape

PPE 1

6.1 cal/cm² ATPV

ASTM F1959M/F1959 & NFPA 70E:2015



NFPA 2112 NFPA 70E	PPE 1 (HRC 1)
EN ISO 11612 2015	A1 A2 C1
IEC 61482-1-2 2014	Class 1
EN 1149-3(5) Pt. 3:2004 Pt. 5:2018	Charge Decay
ASTM D2863 2013	LOI 35.3%
Oeko-Tex® Standard 100 Class II	

FABRIC	Parvotex™	**AS/NZS 1906.4:2023**	Class NF & Class R	**AS/NZS 4836:2023**	Compliant
WEIGHT	155gsm	**AS 4602.1:2024**	Class D/N Level 1	**ENA NENS 09**	Compliant
TAPE	FR Segmented Tape	**AS 4399:2020**	UPF 50+		

- Ultra-lightweight garment at 155gsm, 7% lighter on average than regular lightweight due to the segmented FR reflective tape, while providing PPE Category 1 (6.1 cal/cm²) protection
- Lightweight FR segmented reflective tape tested to AS/NZS 1906.4:2023, ensures superior comfort, flexibility and ease of movement
- Parvotex™ inherent FR fabric, with a blend of 32% cotton offering breathability and FR protection
- Anti-static fabric dissipates electrostatic charge from across its' surface as per EN1149-3 reducing the risk of conductivity for the wearer
- Strong reinforced ripstop fabric which is durable and resistant to tearing
- Double hoop tape configuration to enhance visibility
- Two front pockets, one with pen partition
- Concealed nylon studs
- Two-way radio loops on garment shoulders

BW1505T1–ORA	S–6XL
MOQ	1 Unit
CARTON	20 Units

PARVTEX

PRODUCT CERTIFICATION

BSI Certified Product
AS/NZS 1906.4:2023
AS 4602.1:2024
ASTM F1959/F1959M
NFPA 2112:2023

To request a sample or further technical advice please contact admin@boolworkwear.com.au

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ASTM F1959/F1959M Test Method for Determining the Arc Rating of Materials for Clothing

ASTM F1959/F1959 is an international standard outlining the original test method for determining an 'Arc Rating' or 'Arc Thermal Performance Value' (ATPV) of a material or combination of materials, intended for use to construct a flame resistant garment. The results from the ASTM F1959/F1959 test method will detail the fabric samples material proprieties, when exposed to convective and radiant energy generated by an electric arc.

AS/NZS 1906.4:2023 Retroreflective materials and devices for road traffic control purposes - Part 4: High-visibility materials for safety garments

High Daytime Visibility Non-Fluorescent Material

Class NF is given to fabrics - typically made from natural fibres - which have a lower chromaticity level due to the nature of the fabric. It is especially important for natural fibre garments to be labelled with the NF classification as they should be properly inspected regularly for colour fading.

Retroreflective Material

Class R Retroreflective material is applied to workwear garments in the form of high-visibility reflective tape. This material reflects direct artificial light sources - such as car headlights - back to the viewer.

AS 4602.1:2024 High-visibility safety garments - Part 1: Garment for high risk applications

Day/Night Use

Designed to provide wearer visibility in both day and night-time conditions.

These garments combine the requirements of Class D high-visibility fabric with Class N requirements of reflective tape configurations.

Like Class D, Class D/N garments must have same 0.2m^2 high-visibility fabric on the front and back torso, compliant to Class F and RF material standards. Class NF fabric, can be used instead, with the caveat of reduced high-visibility properties and differing care instructions.

Why certify workwear garments for construction and high visibility?

Unknown to most people, workwear garments in Australia are almost always sold with the claim they are compliant to Australian/New Zealand or European safety standards for workwear. The most popular claims are made to standards:

- AS/NZS 1906.4:2023 Retroreflective materials and devices for road traffic control purposes - Part 4: High-visibility materials for safety garments
- AS 4602.1:2024 High-visibility safety garments - Part 1: Garments for high risk applications
- AS 4399:2020 Sun protective clothing - Evaluation and classification
- ASTM F1959/F1959M Test method for determining the arc rating of materials for clothing

However making this claim is NOT the same as being certified to the Australian/New Zealand standards.

As a consumer you are expected to accept this claim without any further proof or validation that the necessary lab tests have been conducted and all performance requirements have been thoroughly met; upholding all proper scientific practices.

For Bool Workwear this is not acceptable. We pride ourselves in becoming the first Australian workwear provider that can validate our safety claims by providing certification.

Bool Workwear have entrusted BSI Global - international independent notifying body - to ensure that certified Bool garments meet Australian and relevant international safety standards. The certification process ensures manufacturing processes and facilities, test certificates, and the product itself are audited & scrutinized so that all claims are accurate. A garment is then able to be marked certified by the BSI Certified Body.

As certified products the BSI Global and license number issued the BSI Certified Body is presented next to the garment.

Fibre Construction

PARVOTEX

Modacrylic	**50%**
Cotton	**32%**
Polyarylate	**8%**
Polyamide	**9%**
Carbon	**1%**

Parvotex is uncompromised protection against unforeseen open electric arc incidents and flash-fire events. No other FR fabric can boast high levels of fire resistance alongside superior comfort and breathability. This all stems from the yarns composition, with our Parvotex fabric boasting a 32% cotton content the perfect solution for Australia's hot and humid climate.

With a cotton content of 32% the Parvotex fabrics is ultra comfortable, eliminating and removing the stiffness and heaviness of traditional flame retardant garments. The high cotton content also makes the yarn highly breathable which is essential in the harsh Australian working conditions.

Care Instructions

Written in accordance with **AS/NZS 1957:1998 Textiles - Care Labelling**

- Wash prior to first time use or if stained, with like colours
- Machine wash at no more than 60°C
- Do not use chlorine-bleach
- Do not use fabric softners or soap
- Dry in shade and do not overdry
- Warm tumble dry, short cycle Rinse throughly
- Medium heat iron
- Dry cleanable

Sun Protection

UPF 50+ Excellent Protection

Garments received a pass under AS4399:2020 Sun protective clothing - Evaluation and classification

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