

When It Counts, We've Got You Covered



Specialist Garments for Specialist Applications

XRI - PLUS

COVERALL • PRODUCT CODE: C170-PRO • FLAME RETARDANT PERFORMANCE COVERALL

THE **PROBAN**® FABRICS MEET THE FOLLOWING STANDARDS AFTER 50 WASHES: ISO 14116: 2008 (Index 3), ISO 11611: 2007 (para. 6.7) and ISO 11612: 2008 (para. 6.3).



“Quality and Innovative Fire and Rescue Equipment”

Protex® is a registered trademark of Stewart & Heaton Clothing Company P/L. Proban® is a registered trademark of Rhodia Consumer Specialties Ltd.



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Needing more than just your average coverall ?

The XRI-Plus maintains the functional fit and design that the original XRI garment became know for, but now with enhanced features to further meet the needs for those that require more than just conventional work wear. The XRI-Plus coverall is ideally suited for:

- Mines Rescue
- Urban Search and Rescue
- High Angle/Line Rescue
- Underground mining
- Heavy industrial environments
- Offshore Oil and Gas

The XRI-Plus is manufactured from a lighter weight, breathable fabric that is a blend of 88% cotton and 12% high tenacity (HT) nylon. The fabric is Proban treated for flame retardant protection.

What is Proban® ?

Proban® is both a chemical and a quality control process applied to woven fabrics and knits made from cellulosic type fibres, but is primarily applied to cotton or cotton blended fabrics, to provide flame retardancy. The Proban® chemical undergoes a polymer forming process that is embedded into the fibres. When exposed to flame, Proban® treated fabrics form a localised char which will continue whilst the fabric remains in contact with the flame. When removed from the flame, the fabric will cease burning outside of the localised char area, effectively self extinguishing.

Other than Proban® fabrics' proven performance, its other main defining

features are that they are only produced by a controlled group of official licensees and that every batch of fabric produced by these licensees must be independently tested to confirm that it passes the guaranteed performance levels of flame retardancy and durability to washing. Only when the fabric has passed this testing is it made available for garment manufacture.

Proban® has passed the requirements of Oeko-Tex Standard 100 which assesses textiles for potential harmful substances including prohibited dyestuffs, carcinogenic or allergy-inducing dyestuffs, formaldehyde, pesticides, chlorinated phenols, chloro-organic carriers and extractable heavy metals.

The introduction of the small quantity of HT nylon to the outward face of the fabric improves abrasion resistance and fabric stability, therefore leading to a more durable garment. This blended fabric has a supple feel which, in combination with the high cotton content and the lighter weight, result in a more comfortable garment. This is the modern approach to high cotton content flame retardant fabrics – superior comfort and improved robustness. The HT nylon content does not interfere with nor reduce the Proban flame retardant protection, fully passing ISO 14116: 2008 (Index 3), ISO 11611: 2007 (para 6.7) and ISO 11612: 2008 (para 6.3). Further, the fabric has fully passed the testing requirements of AS/NZS 4824: 2006 for wildland fire fighting. (Note: the garment itself is not designed for wildland firefighting)

Does Proban® wash out ?

Proban® does not wash out. This is a very widespread myth in the marketplace. The performance standards used to test for flame retardancy use a 50 wash pre-treatment prior to testing (to simulate garment use). Upon passing the testing, the Proban® fabric is then guaranteed to maintain its flame retardant performance after 50 washes. In effect, the Proban® flame retardancy is effective for the life of the garment.

To launder Proban® fabrics correctly, hypochlorite bleaches (chlorinated breaches) must be avoided as they will render the Proban® ineffective. Traditional soaps that are made from fat are also to be avoided due to them having the potential of leaving a flammable film on the garment. Proban® garments are recommended to be laundered in regular synthetic detergents on a warm wash cycle. Alternatively garments may be dry-cleaned. Whilst a hanging air dry is preferred, Proban® garments can be tumbled dried on a warm setting taking care to avoid over-drying.

The High Visibility Orange colour of the XRI-Plus meets the requirements of AS/NZS 1906.4: 2010 for nonfluorescent high daytime visibility orange/red background fabric for normal use. The 3M #8935 50mm wide silver reflective tape (flame retardant) in the configuration present on the XRI-Plus coverall meets the requirements of AS/NZS4602.1: 2011 for high visibility.

FUNCTIONAL • FLAME RETARDANT • DAY/NIGHT HIGH VISIBILITY

GARMENT SELF MEASUREMENT GUIDE

Note: All measurements given (except inleg) are for the wearer, not the finished garment. All measurements are in cm.

Size	82R	87R	92R	97R	102R	107R	112R	117R	92S	97S	102S	107S	112S	117S	122S	127S	89L	94L
Waist	82	87	92	97	102	107	112	117	92	97	102	107	112	117	122	127	89	94
Inleg*	79	81	84	86	86	87	88	89	74	76	79	81	82	82	84	85	87	94
Chest	92	98	102	107	112	117	122	127	108	115	120	125	130	135	140	145	98	89

GARMENT SPECIFICATIONS

COLOUR:	Spliced High Visibility Orange/Navy	FABRIC WEIGHT:	250gsm
AVAILABLE SIZES:	82R to 117R, 92S to 132S, 89L to 94L	REFLECTIVE TAPE:	3M #8935 50mm Silver Flame Retardant
FABRIC:	88% Cotton/12% High Tenacity Nylon		

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