

When It Counts, We've Got You Covered



Specialist Garments for Specialist Applications

LIGHTWEIGHT FLAME RETARDANT (FR) COVERALL

COVERALL • PRODUCT CODE: C233 • FLAME RETARDANT INDUSTRIAL 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).



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

“Quality and Innovative Fire and Rescue Equipment”



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PROTECTION FROM FLASH FIRE AND FLAME HAZARD

The light weight style C233 coverall combines functional design features with the reassurance of Proban® flame retardant protection. This coverall is ideally suited as industrial work clothing where the potential for flash fire or unexpected exposure to flame is present.

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 coverall is made from a lightweight breathable fabric for enhanced levels of comfort in high ambient temperatures. This fabric is a blend of 88% cotton and 12% high tenacity (HT) nylon. The addition of some HT nylon to the outer face of the coveralls fabric is an enhancement to traditional 100% cotton fabrics. This blend leads to a more durable garment at a lighter weight through improved abrasion resistance and fabric stability. The HT nylon does not interfere with nor reduce the Proban(r) flame retardant protection and is fully backed by independent testing to Standards ISO 14116: 2008 (Index 3), ISO 11611: 2007 (para 6.7) and ISO 11612: 2008 (para 6.3) as well as the fabric requirements for Australian Standard AS/NZS 4824 : 2006 for wildland fire fighting garments (note: the garment is not designed for wildland fire fighting). The high visibility orange colour meets the requirements of AS/NZS 1906.4: 2010 for non-fluorescent high daytime visibility orange/red background fabric for normal use.

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.

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	105
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:	High Visibility Orange	FABRIC WEIGHT:	200gsm
AVAILABLE SIZES:	82R to 117R, 92S to 132S, 89L to 94L	REFLECTIVE TAPE:	3M #8935 25mm
FABRIC:	88% Cotton/12% High Tenacity Nylon		Silver Flame Retardant

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