

PROBAN®

Flame Retardant Protection



SOLVAY

asking more from chemistry®

PROBAN® is a quality controlled technological process that gives cotton and cotton rich woven and knitted textiles flame retardant properties that are durable to long term use. Articles manufactured from **PROBAN®** fabrics provide reliable flame retardant performance and peace of mind to industrial, institutional and end-consumers through-out the world while conforming with industry fire regulations.*

PROBAN® fabrics are durable to modern day laundering and dry cleaning processes and provide protection against heat and flame hazards encountered in different types of working environments.

Features of PROBAN® Fabrics	Benefits to the wearer
Manufactured by an approved network of PROBAN® licensees appointed by Solvay	Reliability and consistency in performance
Durable flame retardant finish	Cost effective protection that will last the lifetime of the manufactured article
Strict ISO accredited quality control programme, independent of the Licensees production site	Reliability of flame retardant performance and end user safety. Independent testing provides reliable safety and protection for end users
Cotton & cotton rich woven and knitted fabrics	Comfortable to the wearer in all climates and working conditions. Manages heat and moisture well

Safety first

Whether you are an end product manufacturer, institutional specifier or a health and safety manager, you want to be sure that you can depend on the protection that you are offering.

All **PROBAN®** fabrics manufactured by Solvay's appointed licensees are tested at our UKAS ISO 17025 accredited facilities to ensure they meet the fire safety performance level specified for each foreseen end use area. **PROBAN®** workwear fabric is the only brand which provides regular and independent testing of flame retardant properties in combination with multiple washing and drying cycles, which simulate actual industrial washing conditions.

The **PROBAN®** polymer has been included in the Oeko-Tex list of approved chemicals. **PROBAN®** fabric suppliers can have fabric tested for OEKO-TEX® standard 100 'Confidence in Textiles' which certifies the skin friendliness of the end articles. OEKO-TEX® testing for harmful substances always focuses on the actual use of textile: "The more intensive the skin contact of a product, the stricter the human ecological requirements to be met.

PROBAN® fabrics are halogen free and contain no antimony.

Examples of PROBAN® quality control wash durability and flammability performance requirements

Protective Clothing (woven and knitted) for use in the European Community	ISO 14116:2008 index 3, ISO 11612:2008 para 6.3., ISO 11611:2007 para 6.7 after 50 washes plus 50 dries using ISO 15797
UK and Mainland Europe Sheeting and Blankets	UK - BS 7175 Ignition Sources 0, 1 and 5 when tested on top and/or below the test fabric after 200 washes at 74°C. Mainland Europe - EN ISO 12952-1 and EN ISO 12952-3 after 200 washes at 74°C.
UK Curtaining	BS 5867 Part2 Type B after 50 washes at 74° C
Mattress Ticking	BS 7175 Ignition sources 0, 1 and 5 when tested on top of and or /below the test fabric, after 3 washes at 74° C
UK Upholstery	BS 5852 Part 1 Ignition sources 0 and 1 after a water soak treatment BS 5651.

* The Personal Protective Equipment Directive 89/686/EEC in Europe and the Furniture and Furnishings (Fire) (Safety) Regulations in the UK, which stipulate minimum levels of performance for protective clothing and upholstery.



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With PROBAN® your reputation is in safe

PROBAN® fabrics are manufactured on a strict quality controlled basis, through appointed licensed textile finishers, whom Solvay recognizes as having the necessary technical skills.

Licensees submit representative samples from each production run to Solvay for limited flame spread testing carried out after extensive durability washing to ensure that each production run meets the high **PROBAN®** standards.

If samples meet the appropriate requirements, test certificates are issued. One copy is issued to the end article manufacturer who can then apply for genuine **PROBAN®** labels.

Only garments or flame retardant fabrics that display genuine **PROBAN®** labels can guarantee protection. You and your workforce may be at risk if you don't insist on the official **PROBAN®** brand.

What is PROBAN®?

PROBAN® is a quality controlled technological process giving cotton and cotton rich textiles with flame retardant properties that are durable to long term use.

Flame retardancy is achieved by the formation of a cross-linked inert polymer within the fibre. Since there is no chemical reaction with the fibre, woven and knitted fabrics retain the aesthetic properties and benefits of natural cotton.

PROBAN® durability

PROBAN® fabrics are manufactured not only to protect the wearer from fire, but to ensure they offer protection for the lifetime of the article. Part of the licensee agreement means fabrics are also tested for their wash durability.

When caring for your **PROBAN®** treated articles avoid using chlorine bleaches, strong oxidizing agents

How are PROBAN® treated fabrics affected by flame?

PROBAN® treated fabrics form a protective insulating char, when exposed to a flame, which stays in place and helps to protect the wearer. **PROBAN®** treated fabrics do not smoulder, have no afterglow, do not melt and the flame does not spread outside the charred area.

PROBAN® treated fabrics are used throughout the world wherever there is a risk of fire.



Only end articles that carry a Solvay issued **PROBAN®** label can be sold, marketed or referred to as **PROBAN®**.

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