



British Millerain

Product Reference Guide

The original manufacturer of waxed cotton and a global leader in specialist textiles for outerwear

Manufacturing in England
since 1880

1880
LEGACY
generations
PIONEERS ENGLAND
Outerwear QUALITY
TIMELESS NOVEL Durable
SUSTAINABLE
BESPOKE HERITAGE
HISTORIC 140 INNOVATIVE
ORIGINAL
SPECIALIST
2020

British Millerain textiles are crafted in England, using skills handed down through six generations of the Miller Family and over a century of innovation.

Established in 1880, we pioneered the development of waxed cotton. Through the 1900s, demand for Millerain waxed cotton grew globally, as industry-leading brands recognised the unique aesthetic appeal and weather-resistant properties of our fabrics.

With more than a century of investment, we continue to innovate and develop novel textiles to meet the ever-changing demands of the apparel industry. Our collection includes machine washable wax and novel dry wax alternatives. In addition we manufacture a variety of non-waxed cottons with excellent weather-proof properties.

Sustainability is at the forefront of what we do. We source cotton registered with the Better Cotton Initiative (BCI) and our manufacturing processes have been customised to minimise water and energy use.

Truly bespoke textiles, full of character.

**Manufacturing in England
since 1880**

From high seas..

Sailors in the 15th Century were at the mercy of the rain, wind and waves and often their craft offered little protection from the elements. Survival was dependant on good clothing.

British Sailors treated their flax canvas sailcloth with linseed oil, which prevented the sailcloth from becoming soaked, keeping it light and efficient in the strong winds. Left over pieces of oiled sailcloth were often crafted into crude smocks and worn by the men on deck to protect them from the harsh biting winds and sprays.



British Millerain sailcloth. Picton Castle Ship

Linseed oil was far from ideal, turning yellow over time and cracking in cold conditions, losing its weather-resistant properties. **British Millerain pioneered the development of paraffin-based waxed cotton**, which offered improved weather-resistance and breathability, without the deteriorating properties of linseed oil. This early work formed the basis of waxed cotton as we know it today.



The superiority of this new wax treatment was quickly recognised and demand for 'Millerain'd' cotton increased around the world. With no other company capable of finishing cotton in this manner, all the machinery and processes were customised in-house. Several patents were filed globally to protect the equipment and techniques used, and to ensure the skills remained within the family business.

To this day, **we remain the market leader in waxed cotton**. An achievement made possible through continual investment and innovation, allowing us to introduce new varieties of waxed cotton to our varied customer base.

..to high fashion



Waxed cotton

Cotton with character

ENGLAND 1880

Developed more than a century ago by British Millerain, waxed cotton (also known as oil cloth) is finished with petroleum-based wax. Garment lining must be treated with an oil resistant finish to prevent wax transfer.

Fabric finish	Description	Composition	Finished weight
Antique 8	A garment made from Antique has all the character of an old pair of jeans; its authentically aged appearance gives the lived-in look that is sought after for casual wear. Over time Antique develops a soft sheen reminiscent of a well-worn leather.	100% Cotton	350
Antique Elite	An original waxed cotton with added lustre; the fabric wears and ages over time to give a vintage look to the garment.	100% cotton	350
Bonneville 4	Like the motorcycle brand, Bonneville fabric is a triumph in manufacturing excellence – a modern interpretation of the traditional waxed cotton. Bonneville has a clean finish, with lustre – affording the fabric with a distinguished handle and appearance.	100% cotton	190
Bonneville 6			270
Bonneville 8			360
Bonneville 10			420
Chera 4	Chera is our signature wax cotton; one of the earliest fabrics to be manufactured by British Millerain. Soft to the touch with a matte appearance, Chera ages during wear, producing unique garments with increasing aesthetic appeal.	100% cotton	190
Chera 6			275
Chera 8			375
Chera 8 Camo			400
Chera 10			500
Chera 6 Tartan	Highland tartans are a perennial favourite with designers. British Millerain has a range of tartans, including the classic Blackwatch, a timeless tartan, whose name is derived from a Scottish military battalion. The tartans are yarn-dyed/	100% Cotton	310
Eiger 4	Eiger has the appeal of an old worn leather, with distinct cracking effect when handled, and a unique lustre.	100% Cotton	155
Eiger 6			250
Japara 6	Japara is one of our earliest textiles, with a soft handle and sheen to the face, a timeless classic.	100% Cotton	275

TEK WAX[®]

WEATHERPROOF FABRIC

THE FUTURE OF
WAXED COTTON
IS HERE



ENGLAND 1880

BRITISH



MILLERAIN

TekWax®

Weatherproof fabric

ENGLAND 1880

TekWax® is a new collection of low oil, dry-waxed fabrics with unique characteristics and enhanced weather-resistant properties. Developed by British Millerain, the home of waxed cotton.

Fabric finish	Description	Machine washable?	Product name	Base cloth	Finished weight (g/m2)
TekWax® Ranger	A lightweight, ultra dry-wax with excellent weather resistant properties and machine washable! Ranger has a slightly stiffened handle which softens with handle and wear. Garments made with Ranger fabric do not need to be lined.	Yes	Ranger 55	100% Nylon	55
			Ranger 100RS	100% cotton	120
			Ranger 4	100% cotton	150
			Ranger 6	100% cotton	220
			Ranger 8	100% cotton	295
			Ranger Drill	100% cotton	295
			Ranger 14	100% cotton	486
			Ranger 18	100% cotton	600
TekWax® Evolution	A world first! Machine washable waxed cotton with the appearance and handle of traditional wax. Evolution can be tumbled and cool ironed after washing to regain original appearance.	Yes	Evolution 100RS	100% cotton	140
			Evolution 6	100% cotton	270
			Evolution 8	100% cotton	340
			Camo 210RS	65% PES: 35% CO	305
			Camo 240T	65% PES: 35% CO	300
TekWax® Fusion	A drier version of traditional wax; a blend of hard and soft wax gives the fabric more body and enhanced spray rating.	No	Fusion 6	100% cotton	260

STAYWAX[®]

Easy care dry waxed cotton

MACHINE WASHABLE

DRY FINISH / LOW OIL

STOCK SUPPORTED SHADES

BRITISH



MILLERAIN

Staywax®

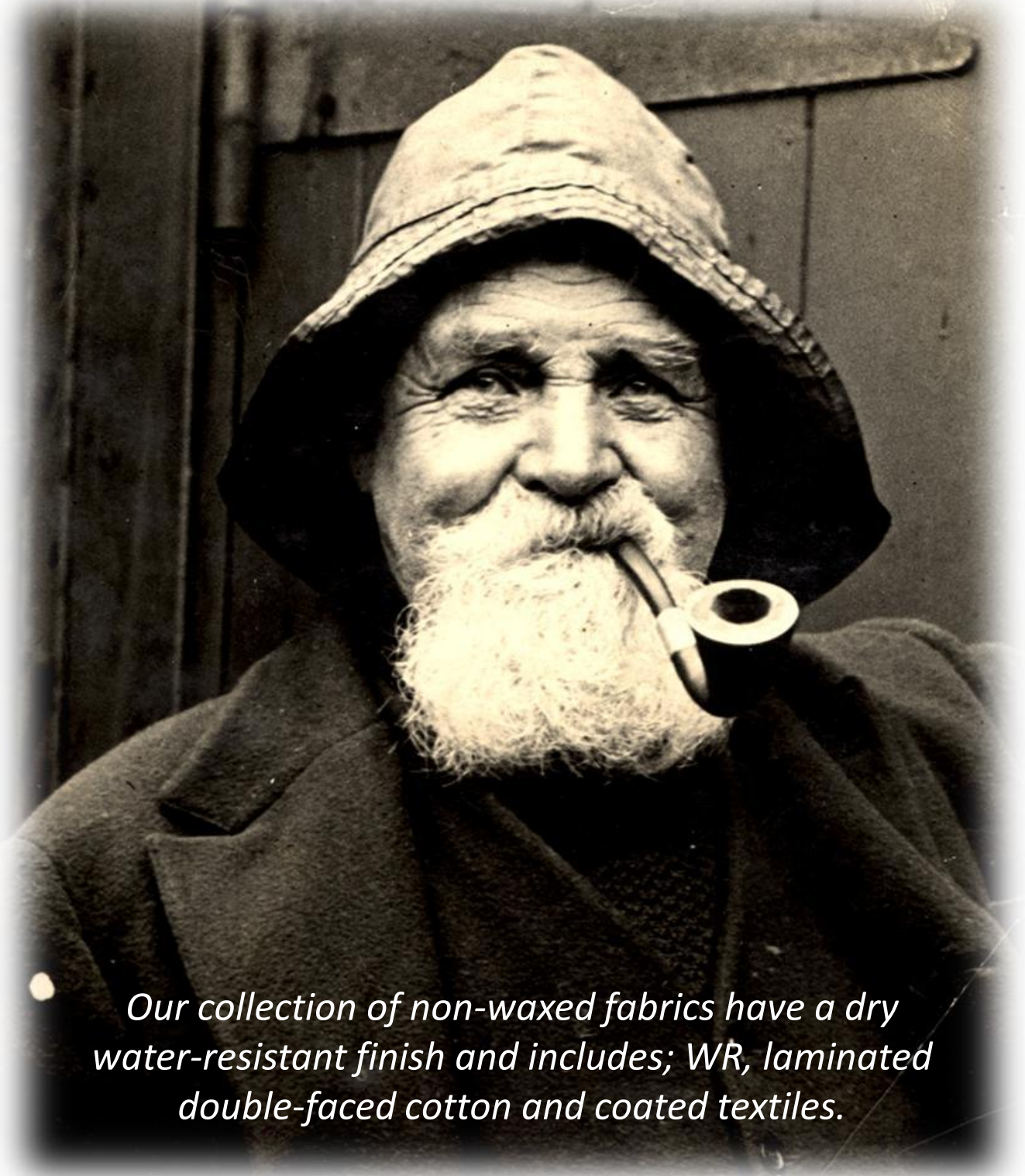
Easy care dry waxed cotton

ENGLAND 1880

Staywax® has a low oil content and dry handle and is machine washable at 30°C. Unlike traditional wax, Staywax® does not transfer and therefore does not need to be lined, allowing more freedom in design.

Fabric finish	Description	Composition	Finished weight
Staywax® Sahara 100rs			145
Staywax® Sahara 4	Sahara is our signature Staywax® finish and has been applied to a variety of base cloths.	100% cotton	165
Staywax® Sahara 6			230
Staywax® Tartan	The finish contains a unique blend of wax, which produces a slightly drier feel than traditional wax fabric, with the added advantage of being machine washable at 30°C.		255
Staywax® Camo	320		
Staywax® Sahara 8	335		
Staywax® Herringbone	310		
Staywax® Sahara 10	385		
Staywax® Nimbus	A truly innovative technical fabric; the outer cotton layer is finished with Staywax®, with a nylon knit on the inside and a breathable, waterproof membrane in the middle. A heritage textile with a technical twist.	100% cotton	250
Staywax® Romano	Romano is designed to crack when stressed and worn, producing a vintage look, unique to the individual.	100% cotton	250

New fabrics, old traditions



Our collection of non-waxed fabrics have a dry water-resistant finish and includes; WR, laminated double-faced cotton and coated textiles.



Non-waxed fabrics

ENGLAND 1880

In recent decades we have expanded our collection to include various coated and laminated textiles. These textiles do not contain wax and have a dry surface feel and have a water resistant finish suitable for outerwear and accessories.

Fabric finish	Description	Composition	Finished weight
Aviator	Aviator is very tightly woven, cotton rich textile, comprising of long staple yarns and a compact weave. Developed with old Royal Air Force garments in mind.	100% cotton	170
Cambric 100RS			100
Cambric 6			200
Cambric 8	Lightweight and supple, the Cambric range has a soft, natural cotton feel with a durable water resistant finish.	100% Cotton	270
Cambric 10			335
Cambric 24			780
Carlyle			A classic bonded trench fabric, comprising of two lightweight cotton twill fabrics bonded together, giving a highly water resistant and breathable fabric.
Chatburn 8	A cotton twill fabric with water repellent finish and soft handle and drape.	100% Cotton	250
Chatburn 18			600
Graphite	A novel pigmented coating, designed to mark with a graphite-like appearance with handle and wear.	100% Cotton	220
Harrington	Harrington has a technical feel with the polyester content and a soft water resistant finish.	52% cotton; 48% PES	170
Henley	A classic herringbone weave with a water resistant finish.	100% Cotton	260
Milair Mesh	A knitted nylon mesh with a laminated breathable and waterproof PU membrane – ideal for use as an inter-liner to add performance to a vintage garment. Can be seam sealed.	100% Nylon	115
M73	100% polyester with a brushed face and PU backing. Can be seam sealed to form a waterproof technical garment.	100% PES	165
Nitrogen	A super lightweight nylon rip stop, treated with a water resistant finish.	100% Nylon	33
Portland	Similar to Carlyle, using plain weave cotton, instead of twill weave	100% cotton	320
Vaquero	Vaquero is a pigmented coating which ages and marks with wear, taking on the character of an old leather.	100% cotton	235
1880 Drill	A luxurious, cotton rich twill, woven with long staple yarns and brushed to give a soft surface feel.	100% cotton	290



recover

BY BRITISH MILLERAIN

REDUCING THE ENVIRONMENTAL COST
OF TEXTILES THROUGH CONTINUED
INNOVATION AND INVESTMENT



Fabrics for the next generation

We take our commitment to the environment seriously

When considering the environmental impact of our products, we look at the raw materials (woven cloth and chemicals) and the factory processes. We are committed to identifying raw materials and manufacturing practices that are less damaging to the environment, enabling us to offer more sustainable textiles.

All our cotton is BCI registered. The Better Cotton Initiative (BCI) was developed to support the growing of cotton in a more sustainable way, in the farming practices used and through social and economic considerations (bettercotton.org).



Our factory processes and chemicals are fully compliant with stringent UK Environmental regulation and European REACH criteria (Registration, Evaluation, Authorisation and Restriction of Chemicals). In addition, we operate a rigorous Environmental Management System in compliance with ISO 14001.

Our dyeing processes are optimised to use as little water as possible. We use customised Cold Pad Batch (CPD) machinery which operates at room temperature, using significantly less energy and water than traditional jig dyeing techniques. After dyeing, the cotton can be treated with a number of different finishes to add the weatherproof properties needed for outerwear.

After dyeing, we apply our specialist wax finish. Wax is free from the controversial perfluorinated carbons (PFCs) and the process does not use water or produce waste. With continuous investment in product R&D, we have expanded our collection to include a range of dry waxed PFC-free finishes, which use significantly less or no petroleum-based wax.

For more information about our new **rECOver** collection please contact the office.



BRITISH



MILLERAIN

recover

ENGLAND 1880

Our new recover range of textiles have been developed by using more sustainable materials, to help reduce the impact of our textiles on the environment.

Fabric finish	Description	Composition	Finished weight
Beeswax 4 Beeswax 6		<p>A natural alternative to traditional wax, Beeswax produces a distinctive stress pattern as the garment is worn, with a less oily handle when compared with traditional waxed cotton.</p>	100% cotton 200 275
Copra 4 Copra 6 Copra 8		<p>Copra wax is derived from the coconut. The coconut is widely considered to be a sustainable crop and less damaging to the environment than the farming of other vegetables due to the high yield of crop per area of land. Growing coconuts doesn't require pesticides or herbicides, and coconuts are harvested by hand, instead of using large destructive machinery. The wax extracted from the white flesh, which is pressed; a process requiring significantly less energy than oil refinement and extraction of waxes from other sources. Coconut wax is also Vegan friendly.</p> <p>Copra develops a unique surface effect pattern with handle; the markings evolve and change with wear, producing garments with individualistic appearance.</p>	100% cotton 175 275 375
Cambric 6		<p>Our new water resistant finish free from perfluorinated carbons (PFCs). A soft natural cotton with excellent drape and weather resistant properties on our tightly constructed 100% cotton base fabric.</p>	100% cotton 200