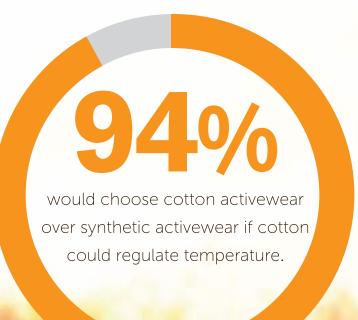
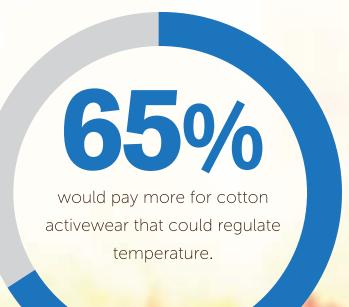


COTTON WHEN THEY DEMAND MORE

Consumers' expectations for performance in activewear extend beyond moisture management and odor resistance. Thermal regulation tops the list of properties that consumers are now demanding to enhance their performance. Cotton fabrics can be naturally-engineered or technologically-enhanced to offer all of these properties and more to consumers for their active and outdoor apparel.







INSULATING PERFORMANCE OF COTTON

Two unique fabric constructions can be engineered to offer consumers insulating properties of thermal and wind resistance in cotton.

Single knit jacquard blister

Double knit spacer

MAXIMUM WARMTH
INCREASED LOFT CREATES WARM MICROCLIMATE

SUPERIOR COMFORT SOFT HAND AND STRETCH

EASY CARE
MACHINE WASHABLE AND WASHES CLEAN

UNIQUELY CONSTRUCTED
ENGINEERED WITHOUT FUNCTIONAL FINISHING

ADVANCED PERFORMANCE ENHANCED THROUGH FUNCTIONAL FINISHING TO OFFER ADDITIONAL PROTECTION

MHAT MAKES COTTON INSULATING?

WindRESISTANCE

Air permeability is defined as the amount of air that flows through a fabric, and is a good indicator of a fabric's wind resistance. When a fabric is air permeable in cold conditions, the warm air is exchanged for cold air, lowering the temperature inside the clothing. The lower the value, the less air will penetrate the garment, keeping you warmer.

Thermal RESISTANCE

Thermal resistance is the resistance to heat transfer, keeping the heat within the microclimate between the fabric and the base layer or skin. Thermal resistance (RCF value) can be measured by the sweating guarded hotplate. The higher the RCF, the more resistant to heat transfer and the more insulating.



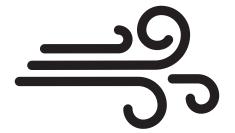
SINGLE KINT JACQUARD BLISTER

The technical construction of the single knit jacquard blister creates performance attributes that are beneficial in cold and windy conditions. The technical structure consists of a flat and tightly knitted outer surface and an insulated interior with rippled peaks and valleys.



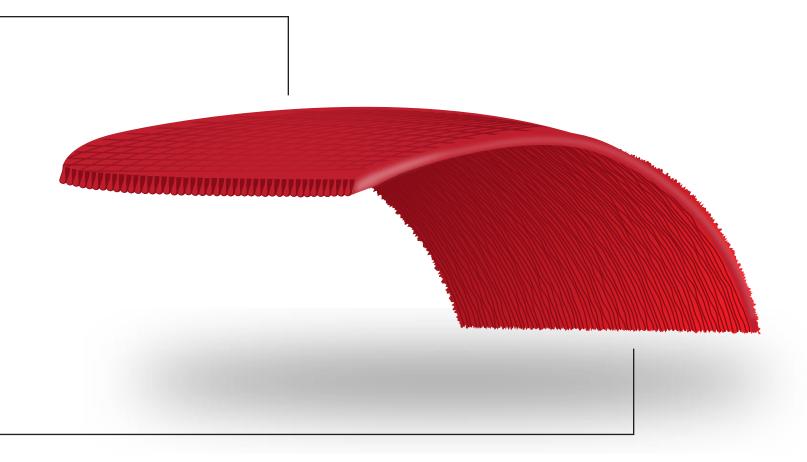
WindRESISTANCE

The tightly constructed outer layer reduces the amount of air that can permeate the fabric, creating a high resistance to wind.



Thermal RESISTANCE

The large amount of surface area created by the numerous folds and grooves trap air and give high resistance to heat transfer.



Single Knit Jacquard Blister Air Permeability (cfm)

Significantly less air is able to penetrate the tightly knit outer layer of the jacquard blister compared to competitive fleece outerwear in the market, providing insulation and wind resistance.



Leading Brand Technical Fleece 64% cotton/36% polyester

 9.1 oz/yd^2

Jacquard blister 96% cotton/4% spandex 17.8 oz/yd²

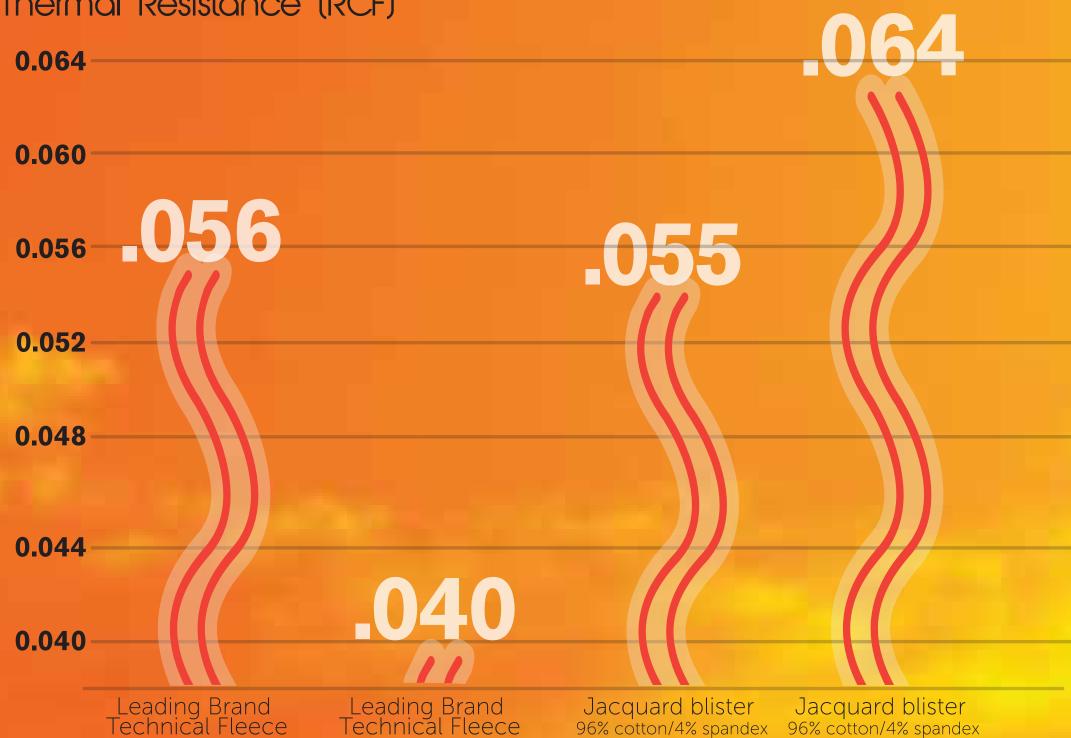
Jacquard blister 96% cotton/4% spandex 24.7 oz/yd^2

Single Knit Jacquard Blister

Thermal Resistance (RCF)

100% polyester

 7.0 oz/yd^2



17.8 oz/yd²

24.7 oz/yd²

64% cotton/36% polyester

 $9.1 \, \text{oz/vd}^2$

Folds and grooves in the fabric construction prevent heat transfer and deliver superior thermal resistance, keeping you warmer in cold conditions compared to competitive fleece in the market.

SINGLE KNITJACQUARD BLISTER



compact ruffle knit 96% cotton/4% spandex 17.8 oz/yd²



wavy ruffle knit 96% cotton/4% spandex 24.7 oz/yd²



compact ruffle knit 96% cotton/4% spandex 24.3 oz/yd²



wavy ruffle knit 96% cotton/4% spandex 16.6 oz/yd²



discharged wavy ruffle knit 96% cotton/4% spandex 16.3 oz/yd²



DOUBLE KNIT SPACER



Wind RESISTANCE

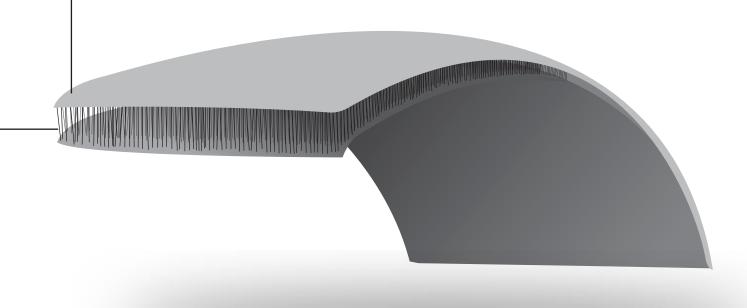
The tightly constructed cotton/spandex outer layer serves as a barrier to wind and other elements. The inner most layer of this fabric is the same construction that helps shield the elements and keep in the warmth.



Thermal RESISTANCE

The monofilament that tacks together the outer and inner fabrics serves as an insulating layer creating a warm microclimate that reduces heat transfer and maintains body temperature.

Double knit spacer fabrics, made from cotton, nylon and spandex, are intended for mid and outer layer garments. Two lightweight fabrics are produced by plating cotton and spandex to create a dense, stretch fabric. These two fabrics are tacked together by monofilament nylon creating a soft, sponge-like, insulating fabric for the activewear market.



Double Knit Spacer Air permeability (cfm)



The two layers of the spacer fabric insulate the body and maintain warmth in extreme conditions by providing up to five times more Wind resistance than synthetic fleece.



100% polyester

7.0 oz/yd²

Leading Brand
Technical Fleece
64% cotton/36% polyester
9.1 oz/yd²

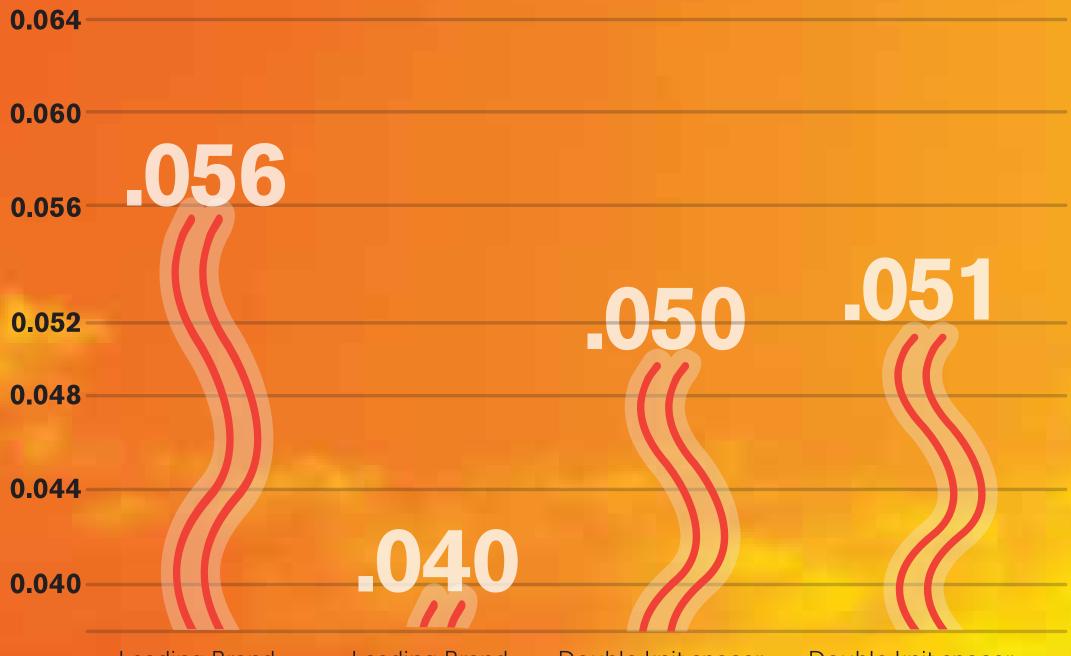
83

Double knit spacer 63% cotton/23% nylon/ 14% spandex 8.2 oz/yd² 36

Double knit spacer 74% cotton/16% nylon/ 10% spandex 10.7 oz/yd²

Double Knit Spacer

Thermal Resistance (RCF)



The unique fabric construction creates and protects the microclimate around your body, delivering thermal resistance and warmth.

Leading Brand Technical Fleece 100% polyester 7.0 oz/yd² Leading Brand Technical Fleece 64% cotton/36% polyester 9.1 oz/yd² Double knit spacer 63% cotton/23% nylon/ 14% spandex 8.2 oz/yd2

Double knit spacer 74% cotton/16% nylon/ 10% spandex 10.7 oz/yd2

DOUBLE KNITSPACER



74% cotton/16% nylon/10% spandex 10.7 oz/ yd²



67% cotton/21% cylon/12% spandex 9.9 oz/ yd²



63% cotton/23% nylon/14% spandex 9.5 oz/yd²



63% cotton/23% nylon/14% spandex 8.2 oz/yd²



80% cotton/12% polyester/8% spandex 10 oz/yd²

