Coolmax® is a high tech fabric specifically and uniquely engineered to keep users dry and comfortable. Coolmax® fabrics are made from specially engineered polyester fibers with an increased surface area. This special four-channel or six-channel fiber forms a transport system that pulls moisture away from the skin to the outer layer of the fabric. It then dries that moisture faster than other fabrics to thermo regulate the body by evaporative cooling.

Originally developed to meet the demanding needs of top class athletes, today Coolmax® fabrics are used for many kinds of garments such as sportswear, intimate apparel, workwear, ready-to-wear - in fact, wherever there is a need for fresh, dry comfort combined with easy care advantages.

Thermolite® provides warmth and comfort without weight, even when wet. It's the lightweight fabric that provides heavy-duty performance… because its fabric made with hollow-core fibers that trap air for greater insulation. Plus, wearers stay drier because it dries 20% faster than other insulating fabrics, and 50% faster than cotton. Thermolite® is the perfect layering fabric because it’s comfortable and lightweight, allowing more freedom of movement.
Throughout the global textile industry, TACTEL® fiber is well known and valued for its exceptionally versatile and wide-ranging portfolio of effects: “senses” - the new platform for visual and tactile effects - and “enhancers” - the new platform for the in-built technologies of TACTEL® fiber. It uses the limitless possibilities of these to appeal to the human senses: touch, appearance, comfort, freshness and ease of care, all enhanced by innovative INVISTA technology.

It is, after all, vital to serve the needs of the “must haves” in the clothing market. More than half of today’s demanding consumers say that the most important product benefits in clothing are comfort, touch, easy care and pleasing aesthetics – in short, multi-functionality. With its instinctive grasp of the demands that will be placed on tomorrow’s clothing, TACTEL® fiber anticipates these needs now.

CORDURA® fabric is what many of the most respected brands, retailers and militaries around the world use when they need to make a product that’s durable, versatile and reliable. Constructed using high tenacity fiber technologies, weight for weight, CORDURA® fabrics are exceptionally durable. Fact is, no matter the application, our fabrics are “best-in-class.” But more importantly, they have to pass our own stringent test criteria before they can earn the CORDURA® brand name. They’re available in a wide range of weights – from ultra lightweight to heavy weight. And CORDURA® fabrics come in many different constructions and textures. All in all, they’re the fabrics that make strong, long-lasting products even tougher in several categories - from outdoor gear and workwear to luggage, military and upholstery.
SUPPLEX® fabric offers consumers the feel of cotton with the benefits of advanced fiber technology. Consumers everywhere like the look and feel of cotton, and its natural texture and aesthetics make it the fabric of choice in many garment categories. But even cotton has shortcomings - garments tend to crease and shrink and colors fade. Scientists have enhanced nature by developing SUPPLEX® fabrics, a family that combines the traditional appeal of cotton and the performance benefits of modern fiber technology.

SUPPLEX® is a microfiber fabric made of polyamide associated with the comfort and freedom of movement of elastane; soft touch, shapes the body with greater firmness giving greater support to muscles during exercise; have greater comfort because of the rapid passage of perspiration to the external side; UV protection; finishing actifresh (antibacterial)

SUPPLEX® fabrics are:

- Fully Breathable
- Able to Hold their Shape
- Faster Drying than Cotton
- Color Fast

TENCEL® and are manufactured using a highly eco-friendly process with minimal environmental impact and excellent ecological credentials. With enhanced physical properties such as strength, especially in the wet state and low lining combined with natural absorbency TENCEL® is the advanced non-woven cellulosic fiber providing a matchless combination of performance, purity and softness. TENCEL® short cut fibers are produced at lengths of 4 - 20 mm depending on the application and product requirements. Continuous TENCEL® Tow is also available for subsequent downstream cutting and conversion for specialty applications and products.

TENCEL® 1.7 dtex (cross section)  TENCEL® 1.7 dtex (longitudinal section)
LYCRA® SPORT fabrics are branded performance fabrics designed specifically to support athletes and active people in their sporting activities. LYCRA® SPORT fabric combines stretch fiber technology and demanding fabric performance testing standards, resulting from years of innovation and textile science in the world of sport. LYCRA® fiber revolutionized sports apparel by delivering stretch and recovery power designed to help athletes move and perform at their best. Research shows that comfortable stretch, added freedom of movement and shape retention are the features active men and women look for when purchasing athletic apparel. Those benefits provided by LYCRA® fiber continue today to be of utmost importance to consumers worldwide.

Meryl yarns add function and style, making the fabric breathable and easy to care for while also adding excellent moisture management properties. Meryl Actisystem produces fabrics that are engineered for performance, designed for fashion and increase the breadth of capabilities available to the sportswear market.

Meryl Actisystem’s lineup of innovative fabrics result from a unique fabric development concept that utilizes one specific Meryl sub-brand to accentuate a particular performance feature or combine two or more Meryl yarns with varying performance features. This system allows a broad range of styling and end-use applications for activewear manufacturers.
Germanium Alloy Yarn comes from Germanium Alloy which is combined under high temperature. It can easily absorb the molecular and the volatile on Germanium Alloy. Indeed, Germanium Alloy is a semi-conductor which possesses great absorption effectively, and then decomposes the absorbed ingredients into harmless elements. The Germanium Alloy was created under above 1500℃, it will emit far infrared ray, release minus ion, eliminate static electricity, and odor molecule. The apparel made using Germanium Alloy fabric is good for health. We take care of human, developed Germanium Alloy fabric with various structure, allows garments, except function and fashion, also healthy. In short, Germanium Alloy can be able to use in our daily life widely.

Cool-Touch Fiber

Cool-Touch fiber have a quick dry function which offset heat and raise the quantity of water absorption. Cool-Touch fabric are able to reduce the temperature about 1~2℃ over regular fabrics while wearing. in addition, by taking advantages of the special shaped surface that will off wet water, thus, sweats can be released in a relatively manner, the Cool-Touch fiber have a better cool feeling, because this material requires relatively high energy to become warm compare to normal fiber in the market, normally, when we touch any clothing material and have a cool feeling it is due to the humidity within the fiber itself, and because the normal water has lower temperature comparing to a human body, we will the cool effect.
X-static® is a fiber made with a layer of 99.9% pure silver, which is permanently bonded to the surface of a textile fiber. It has been used primarily as an industrial and medical product, servicing high-tech industries and the Department of Defense.

More recently, it has been thrust into consumer product markets as a result of the need for a safe, natural and effective antimicrobial solution. X-static® is a fiber antimicrobial, all natural, heat transfer, anti-static and therapeutic-static® fiber has a layer of pure silver permanently bonded to the surface of a textile fiber. The process is such that the fiber, with its silver layer, retains traditional textile and tactile characteristics. It can be used in knits, wovens and non-wovens as either a filament or spun yarn.

X-static® offers all the benefits known to be inherent to pure silver, only in a new format: a textile fiber.