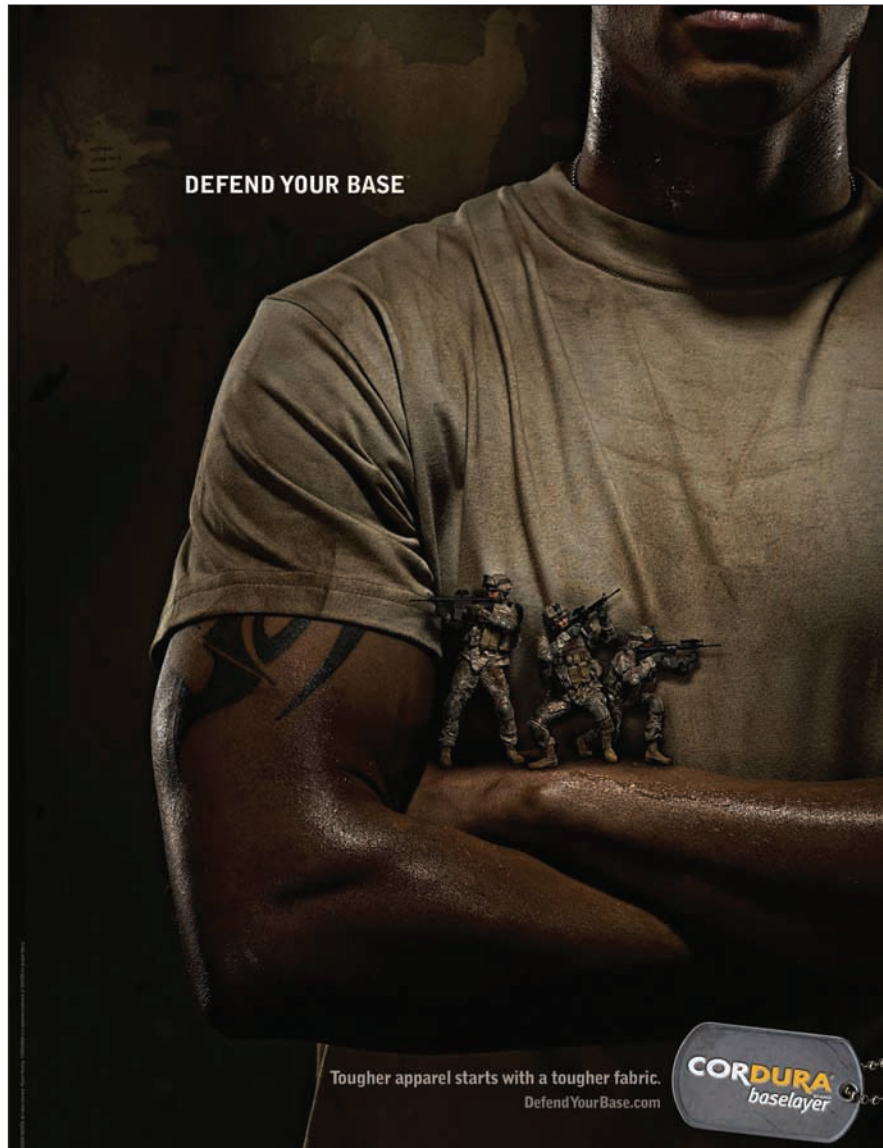


# INVISTA's CORDURA Brand Showcases Innovations in High Tenacity Yarn

BY SHARON BIRK, CINDY MCNAULL AND ALLEN MORTIMER, CORDURA BRAND TEAM



DURA Colorlock fabric technology and Solution-Dyed Nylon (SDN) yarn with built-in NIR signature reduction.

## CORDURA BASELAYER FABRIC

INVISTA's latest innovation in high tenacity fiber has been to combine the durability of its CORDURA brand with comfort.

"Durability is the DNA of all of the products in the CORDURA brand portfolio," said Cindy McNaull, global brand manager for the CORDURA brand. "However, we are ready to show the softer side of durability with the recent military launch of the CORDURA Baselayer fabric."

Constructed with a unique blend of INVISTA T420 nylon 6,6 fiber and cotton, the CORDURA Baselayer fabric helps protect soldiers when exposed to heat in flash fire situations by forming gels and charring around the cotton. This creates an entirely new fabric structure that does not drip or melt onto the skin underneath, which is typically what happens with materials such as polyester.

"With the potential dangers surrounding use of polyester based undergarments, in flash fires, there's a need for the CORDURA brand Baselayer fabric," said Jon Heard, global business director of INVISTA nylon staple and government business. "It's because of this No Melt, No Drip feature that we've developed the 'Defend Your Base™' positioning."

For military and tactical consumers, INVISTA also has launched a site at [www.defendyourbase.com](http://www.defendyourbase.com) to communicate the fabric's benefits and where to find next-to-skin products made with CORDURA Baselayer fabric.

In addition to its thermal properties, the Baselayer fabric's combination of nylon and cotton offers excellent

Made with a specially engineered blend of nylon and cotton, INVISTA's new CORDURA Baselayer fabric won't melt or drip under high heat threat.

INVISTA's CORDURA® brand, renowned for its durability and strength, has been standing firm in the fiber industry for more than 30 years. Outdoor and workwear industries, as well as the world's leading military forces, have capitalized on the exceptional quality that CORDURA brand products offer in protective

apparel and equipment solutions, such as packs and bags, battle dress uniforms, load carriage systems, boots, body armor covers, and knee and elbow pads.

In line with INVISTA's commitment to innovation, the company has recently launched products including the CORDURA brand Baselayer, COR-

moisture management performance by drying 2.5 times faster than a 100 percent cotton t-shirt.

“While the Baselayer fabric is initially being launched in the military market, it is equally as valuable to other segments like outdoor and workwear,” continued McNaull. “We are looking forward to sharing the technology with those customers.”

### CORDURA COLORLOCK FABRICS

Earlier this year, INVISTA also introduced to its portfolio a collection of CORDURA Colorlock fabrics. Available in more than 200 colors, the fabrics are made with INVISTA’s proprietary Solution-Dyed Nylon (SDN) available in 650- and 1245-deniers. The fabrics have set an industry standard by allowing the color to be permanently built into the fiber, eliminating the need to piece-dye fabrics and providing excellent stain resistance, colorfastness and long-lasting, durable performance.

“Our fabric’s inherent durability, coupled with solution-dyed technology that eliminates a dyeing step, is a testament to our commitment to create alternative, innovative fabrics and design solutions,” said Ms. McNaull.

In fact, several colors in the CORDURA Colorlock fabric portfolio are available with 25 percent pre-consumer recycled content.

Products made with CORDURA Colorlock fabrics look newer longer than typically dyed fabrics, even when exposed to intense sunlight or the extreme temperature of industrial laundering. These characteristics make CORDURA Colorlock fabrics an excellent design and performance option for packs, bags, luggage, outdoor apparel and workwear applications.

### SDN YARN

Just prior to the launch of the CORDURA Colorlock fabrics, INVISTA created a SDN yarn with built-in Near Infrared (NIR) signature reduction for use in CORDURA fabrics for the U.S. military, engineered to match Natick’s color (Desert Sand 503) and NIR signature reduction requirements.



Available in more than 200 colors, CORDURA Colorlock fabrics have color permanently built into the fiber, providing excellent stain resistance, colorfastness and long-lasting, durable performance.


As the rules of military engagement have been extended past daylight, concealment of the infantry soldier at night has become a top priority. Thus, military forces began seeking solutions to improve the camouflage protection of infantry soldier’s synthetic fiber-based garments and equipment in the NIR spectral region. One of those innovative solutions was CORDURA brand fabrics comprised of SDN yarns with built-in NIR signature reduction.

To provide maximum enhanced concealment, the exact color and NIR signature are permanently built into the fiber, utilizing nano- and micro-sized particles to provide permanent long-lasting color and NIR durability. The SDN yarns are offered in both 500- and 1000-denier configurations and round out INVISTA’s military-related CORDURA fabric palette, which currently consists of foliage green-504, coyote brown-498, ranger green, camo green-483, and black.

### THE FUTURE

Already a world leader in high-performance nylon fiber production, INVISTA continues to move in the direction of next-generation nylon technology with an investment in a multi-million dollar advanced development pilot facility to be located in

Kingston, Ontario. The innovative research and development asset will work to identify new opportunities to expand its portfolio as it serves INVISTA’s growth initiatives in North America, Europe and Asia.

INVISTA is an integrated fibers and polymers business with a global presence. It operates four major businesses: Apparel, Intermediates, Performance Surfaces and Materials, and Polymer and Resins. INVISTA delivers exceptional value for its customers through market insights and technology innovations, along with a powerful portfolio of some of the most recognized global brands and trademarks in their respective industries including: ADI-PURE, ANTRON, AVORA FR, INVISTA C12, COM-FOREL, COOLMAX, CORDURA, CORFREE, DACRON, INVISTA DBE, DYTEK, ESP, FRESHFLEX™, CORDURA NYCO, LYCRA, PERFORMA, POLARGUARD, POLYSHIELD, POLY-CLEAR, SOLARMAX, STAINMASTER, SUPPLEX, SUPRIVA™, TACTEL, TACTESSE, TERATE, TERATHANE and THERMOLITE. 

For more information please contact Sharon Birk at INVISTA. Tel: 1 302 683 3134 Fax: 1 302 683 3485  
Email: Sharon.W.Birk@invista.com  
Website: www.INVISTA.com