Elevate Textiles

Burlington Military Solutions

Elevate Textiles Overview
Military Heritage Review

SYFA Conference

November 7, 2019

Elevate Textiles™

Our Distinguished Collection of Global Brands

A&E
Innovate. Create. Deliver.

As one of the world's foremost manufacturers of sewing thread, embroidery thread and technical textiles, A&E brings global solutions to the apparel, automotive, home furnishings, medical, footwear and other industrial markets with capabilities that extend from Asia to Europe to the Americas.

Burlington®

With close to a century of industry leadership, Burlington is driven to develop sustainable, next-generation textile technology and fabrics including performance synthetics, cottons, worsted wool and blended fabric, serving the military, performance apparel, medical and cleanroom, interior furnishings, uniform, and workwear markets

CONE DENIM®

A worldwide leader in denim innovation, Cone Denim's unparalleled expertise and advanced capabilities have serviced and inspired the global market for more than 125 years, offering unique collections of sustainable and innovative performance, stretch, selvage and natural indigos denims.

Gütermann

Regarded as one of the world's premier thread manufacturers, A&E Gütermann has been making quality thread products for more than 275 years servicing both industrial and commercial sectors globally.

SAFETY COMPONENTS

A global leader in technology-driven fabric solutions and other high-performance textiles, for first responders, military, outdoor, marine and automotive use, Safety Components has provided innovative solutions to customers for more than 100 years.

Elevate at a Glance

25,000 Customers

15,000 Employees

100 Countries

37 Facilities

6 Continents

Global Footprint

As leaders in the industry, our innovative spirit comes from our knowledge and expertise. Founded and headquartered in North Carolina, our global presence is expanded to support our customers around the world.

Why Elevate?

Innovation

Sustainability
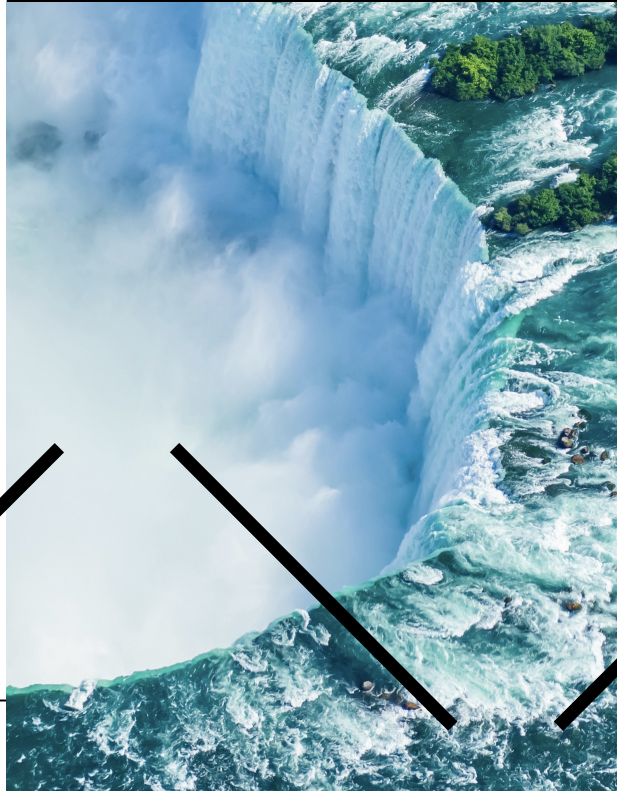
Heritage

Innovation

Burlington® LABS

CONE® 3D
DENIM
DESIGN
DEVELOPMENT

A&E
Innovate. Create. Deliver.
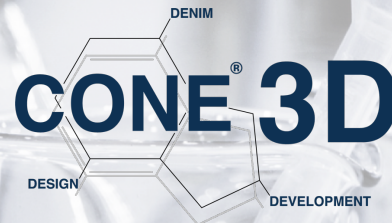
Burlington® Labs is a world leader in the research and development of next-generation textile products. With more than 15 labs, we use innovative fibers, chemicals and processes to create evolutionary fabrics and capabilities that differentiate us from our competitors.

Cone® 3D is an innovation incubator which leads the R&D efforts of Cone Denim. Key areas of focus are performance, comfort, uniqueness, and sustainability. Breakthrough initiatives include identifying new fibers and raw materials, incorporating distinctive fiber blends and fabric constructions, and engineering unique process technologies -- all supported by sustainable practices.

A&E's leading research and development teams engineer some of the most cutting-edge thread and yarn products in the world. Known throughout the textile industry for its quality, innovative thread products and steadfast commitment to sustainable manufacturing, A&E remains the industry's preferred thread supplier.

![Burlington logo]

Since 1923, Burlington has been a global textile leader. Today we supply advanced performance fabrics to the apparel, military, active wear, barrier and contract markets around the world. Burlington leads the way in technology and textile innovation.

Burlington Business Units

- Outerwear – Outdoor Enthusiast,

- Lifestyle – Golf/Casual, Wool & Wool blended suits

- Protective Barrier – Medical, Micro-Electronics, Pharmaceutical

- Uniform/Career Apparel – P/C, P/W, P/R, Polyester, Nylon

- Contract Fabrics – Commercial Seating / Wall Panels

- Safety Components – Turnout Gear, Wildland, WeatherMax

Military Solutions

Military Solutions

Burlington Military leverages a diverse range of high performance manufacturing capabilities and a complete range of fiber/fabric blends that delivers state-of-the-art military solutions worldwide.

Our fabric portfolio encompasses Military applications from Extreme Weather gear, Camouflage combat (BDU), Physical Training, Class A Dress Uniforms ,Utility materials, and tenting/shelter fabrics to shipboard covers and ballistic materials.

AGSU – Army Green Services Uniform – 55/45 Poly/Wool

- Current Army Service Uniform (ASU) has Navy Jacket and Light Navy Pant.
    - Changing to AGSU.   Historically called "Pinks & Greens".
    - Now called Heritage Green and Heritage Taupe
    - Tradition carried forth from the Eisenhower Era of Dress Uniform.

- Burlington supplying Pant, Jacket, Tie, Hat and Shirt.
    - A&E will be supplying the sewing thread for this Uniform.

- According to NDAA (National Defense Authorization Act) Congress has to be notified of a change 3 years prior to rolling it out. This process started March 2017. Can't legally offer until March 2020.

- ***Why are the current trousers light blue and the jackets dark blue?***

Fire Resistant Fabrics

- Sigma – Inherent FR Fabric

  - Proprietary blend of Aramids, Lenzing FR, Nylon

  - Weights range 4.5 – 6.5 oz/sq in weaves of Plain, Twills and Ripstops

- End Uses

  - Commercial version of Flight Suits and Combat Pant

  - Wildland Fire Fighting and Station Wear

Nylon/Cotton (NyCo)

- 50/50 Nylon/Cotton Ripstop is standard issue Combat and Utility Uniforms.

- Carlisle Plant prints patterns for each branch of US Military (OCP, MARPAT, Woodland, NAVPAT...)

- Also supply camo prints to various International Militaries (Afghanistan, Israel)

Military Physical Training – PT

- PT fabrics today are 100% Polyester or 100% Nylon.
  - Trunks have quick dry chemistry
    - 100% Polyester- 2.25-2.75 oz/ sq yd
    - 100% Nylon- 3.5 oz/sq yd

- Burlington supplies product for:
  - Army
  - Marines
  - Air Force
  - Navy

CNT – Certified Navy Twill

- The US Navy Dress Whites
  - 100% Polyester Twill – 6.5 oz/sq yd

Jungle Uniform

- Jungle Uniform (Jammies)
  - 100% Nylon Ripstop- 3.5 oz/ sq yd
  - Finished with 50+ UPF, Quick Dry and NFZ
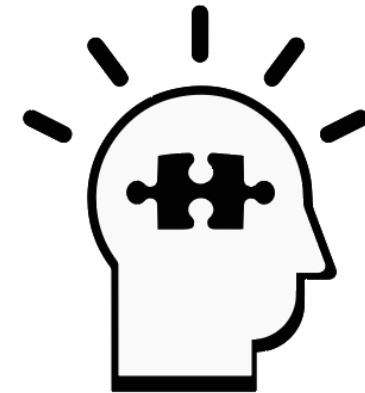 - Dyed Solid Shades or OCP Printed

What's New

- Sustainability
- Where to incorporate Recycled and Bio-degradable fibers
- Lighter/ Protective (FR) Uniform & Gear
- Smart Apparel
  - Improved Camo
  - Self repair

Challenges

- Long Development Lead Times
- NDDA – 3 year Notice of Change
- No Requirements
- Funding

Elevate Textiles™