



# UL Textile Services

## Quality and Safety Assurance for Apparel, Textiles, Footwear and Leather

UL's state-of-the-art laboratories help ensure regulatory and brand compliance of your products. Along the global supply chain UL experts perform chemical and physical testing, quality inspections, and manufacturing audits to optimize products, mitigate the risk of costly recalls, and protect brands.



Global Consumer Products Laboratory Locations  
For additional UL laboratory locations please visit [ul.com](http://ul.com).

Since 1894, UL has been a respected leader in safety science. Today, UL is advancing its commitment to protecting people, products and places through expert advisory and independent quality assurance testing, inspections, and assessments for a wide range of consumer products. Our network of more than 152 laboratory testing and certification facilities in 40 countries helps drive the integrity of global supply chains, optimize product performance and protect brands.

[ul.com/apparel](http://ul.com/apparel)  
[Apparel@ul.com](mailto:Apparel@ul.com)  
[info-ICQGlobal@ul.com](mailto:info-ICQGlobal@ul.com)



## Proficiency Fields

UL laboratories utilize recognized methods to test your products for compliance to international, federal and regional regulations:

- AATCC
- ASTM
- BS
- DIN
- GB
- ISO
- UNI

UL partners with clients throughout the production cycle to assess risk and develop solutions that effectively evaluate the quality and safety of textiles and garments, including:

- Children's clothing
- Adult clothing
- Accessories
- Home textiles
- Footwear
- Leather goods

UL's testing programs help ensure products are safe and manufactured to brand specifications. Our quality assurance experts help our clients address all phases of the global textile supply chain — from raw materials such as fiber, yarn and fabric, to components like snaps and trim, to completed garments, helping deliver quality products to the global marketplace.

## Physical, Mechanical, and Colorfastness Testing

- Colorfastness to Washing
- Colorfastness to Crocking
- Colorfastness to Light
- Colorfastness to Perspiration
- Flammability
- Strength and Performance
- Dimensional Stability
- Tensile Strength
- Seam Slippage
- Tear Strength

## Chemical Analysis

- Formaldehyde
- Azo Dyes
- Heavy Metals Detection
- Phthalates
- Organostannic Compounds
- Alkyl Phenols
- Nickel Release
- Phenols
- REACH and SVHC
- RSL
- Allergenic and Carcinogenic Colorants
- Chlorinated Benzene and Toluene

## Children's Clothing

Safety testing of apparel and accessories for children focuses on small parts ingestion and strangulation hazards.

Primary laboratory testing includes:

- Button, snap, trim, and appliqué attachment resistance
- Toxicity level testing for lead, cadmium, nickel, and heavy metal content in trim components
- Safety and dimension evaluation of cords and drawstrings
- Overall safety assessment of garments with attention to sharp points and sharp edges (zippers and hasps)
- Flammability resistance of children sleepwear

## Quality Inspections

- **Top of Production (TOP) Inspections/Initial Production Inspections (IPI)** are performed on raw materials and initial samples to assess compliance with regulatory requirements and brand specifications
- **During-Production (DUPRO) Inspections** evaluate quality before the order is completed to identify and address any issues early in the manufacturing process to not jeopardize the shipping schedule
- **Final Random Inspections (FRI)/Pre-shipment (PSI) Inspections** serve as a final check on product quality, packaging, product labelling, and carton markings before the product leaves the factory to ensure items are correctly packed and fit for their intended use
- **Loading Inspections** verifies that the product, quantity, packing, and carton markings are accurate during the loading process at the factory, warehouse, or port
- **Production Monitoring** places an inspector on-site at the factory to monitor the manufacturing process and helps ensure materials, quality, and production schedules are met

## Manufacturing Audits

- **Factory Capability Audits** evaluate a facility's capabilities to produce a specific range of products to brand specifications and desired timeline
- **Social Compliance Audits** measure social and environmental compliance with international standards and regulations
- **Technical Audits** assess management structure, quality control processes, document control and working conditions
- **Environmental Assessments** provide a comprehensive review of compliance with environmental laws and regulations and relevant international standards such as ISO 14001

## Laboratory Accreditations

- ACLASS - (ANSI-ASQ National Accreditation Board)
- SAS - (Swiss Accreditation Services)
- CPSIA - (U.S. Consumer Product Improvement Safety Act)
- TÜRKAK - (Turkish Accreditation Agency)
- ACCREDIA - (Italian National Accreditation Body)
- HKAS - (Hong Kong Accreditation Service)
- UKAS - (United Kingdom Accreditation Service)
- CMA - (China Metrology Accreditation)
- CNAS - (China National Accreditation Service for Conformity Assessment)
- LACE - (Laboratory Accreditation, Correlation, Evaluation Textile Laboratory Accreditation Scheme)
- DANAK - (The Danish Accreditation and Metrology Fund)
- NABL - (National Accreditation Board for Testing & Calibration Laboratories)
- TUNAC - (Tunisian Accreditation Council)

## Chemical Safety: Restricted Substances List

A Restricted Substances List (RSL) covers chemicals and other substances whose presence in a product is restricted through a government regulation or law, and identifies the most restrictive iteration of that regulation worldwide.

To remain competitive in today's market companies need to adopt sustainable business practices focusing on environment and human health. UL offers analysis and monitoring of current and increasingly complex guidelines in accordance with the various European Directives and international laws.

UL laboratories are equipped with state-of-the-art equipment to verify the presence of restricted substances including pesticides, azo dye, carcinogens, and allergens in fabrics, yarns, garments, leather, soft furnishing, and accessories.