



# Footwear and leather products testing

Boost your customers' confidence in your products

## FOR YOU - WE TEST

Quality and comfort are important factors your customers consider when they purchase footwear and leather products. On top of that, they also expect your company provide toxin free goods.

Our state-of-the-art chemical and physical laboratories bring one-stop service for footwear and leather manufacturers and buyers in accordance with national and international standards.

- International (ISO)
- Europe (EN)
- German (DIN)
- USA (ASTM)
- Japan (JIS)
- China (GB)
- Vietnam (TCVN)

With stages in the production process, we test:

- Chemical
- Raw material
- Semi-product
- Product during production
- Finish product

## BENEFITS AT A GLANCE

As a world-leading independent provider of technical services, we help to improve your market position and strengthen your prestige. Your tested products are qualified with document implementation of legal requirements via an independent laboratory which evidence for high standard of quality. At the end, our internationally recognized marks will boost your customers' confidence in your products.

## OUR LABORATORIES

Our first-class testing facilities and world-class experts can help you understand the latest international regulations or directives and support you to ensure product compliance. Especially, laboratories in Vietnam is operating under ISO 17025 accreditation - an international benchmark for the capability and competence of laboratories. Besides, the laboratory is also accredited by U.S. Consumer Product Safety Commission (CPSC). With highly trained and educated staffs, strict and professional testing services are performed to reduce risks and assure your product safety.

### TÜV RHEINLAND TEST MARK



Safety  
Functionality  
Quality



www.tuv.com  
ID 0000000888

Our test mark provides information for consumers and partners – fast, neutral and transparent. Your partners and customers can get directly to your certified products and services:

- by scanning the test mark QR code on packaging, in advertising and at the POS
- by clicking on the test mark in web pages, apps or other online applications

Create visibility for your products and services with test marks and Certipedia, everywhere and at any time.



## CHEMICAL TESTS

With the development of European safety standards, chemical tests have become the obligatory technical guideline for export of footwear. Currently, tests are usually required for:

- Banned azo dyes
- Pentachlorophenol
- Formaldehyde
- Chromium (VI)
- Total cadmium
- Nickel release

Many international buyers have developed their own advanced testing requirements for shoes, including:

- Heavy metals
- Organotin compounds
- Phthalates
- Disperse dyes
- Polyaromatic hydrocarbons
- Nonylphenoethoxylates and Nonylphenol

Our experts continually develop testing technology and refine our equipment to satisfy a wide spectrum of testing requests. Hence, we can offer advanced tests for substances such as:

- PFOS
- Pesticides
- Short-chained chloroparaffines
- Chloroorganic carriers
- Flame retardants
- Polychlorinated biphenyls

## PHYSICAL TESTS

Physical tests also provide important technical guidelines for export of footwear and other leather products. We are testing:

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## Colorfastness

- Colorfastness to crocking/rubbing
- Colorfastness to light
- Colorfastness to perspiration
- Colorfastness to water
- Colorfastness to Chlorine bleach
- Colorfastness to hot pressing
- UV resistance to yellowing

## MECHANICAL TESTS

Testing parameters	Finish product	Upper / Shell	Outsole
Abrasion resistance		✓	✓
Adhesion strength	✓		
Ageing test	✓	✓	✓
Attachment strength	✓		
Bursting	✓	✓	
Density			✓
Dynamic water proof	✓		
Fatigue test for shoe heels	✓		
Flex resistance	✓	✓	✓
Hardness	✓		✓
Heel lateral impact resistance	✓		
Heel/Toe post attachment strength	✓		
Hydrolytic resistance	✓	✓	✓
Seam strength	✓	✓	
Shaking impact	✓		
Size	✓		
Tearing	✓	✓	✓
Tensile	✓	✓	✓
Thickness	✓	✓	✓