



TEXTILE, LEATHER, FOOTWEAR AND FASHION ACCESSORIES

Your industry, our focus

QUALITY ASSURANCE & CONTROL

Table of contents

Your Industry, Our Focus

- Industries We Serve
- Product Ranges

Our Service Scope

- Comprehensive Portfolio
- Customized Quality Assurance
- Chemical and Mechanical Testing
- Inspections and Audits

Regulatory Scenario

- In Good Hands
- Europe
- USA

Geographical Coverage

- Eurofins Competence Centres - Worldwide

Our Textile Labs

- China – Hangzhou
- China – Shanghai
- China – Shenzhen
- India – New Delhi
- Spain – Alicante
- Germany – Wilsum
- USA – Seattle
- Vietnam – Ho Chi Minh
- Turkey – Istanbul

Focusing on the client's requirements, needs and budget and making the most of the client's existing corporate resources, "Eurofins" is able to design and implement customized QA & QC programs intended to optimize results by deploying cost-effective processes.





Product Ranges

Apparel, Footwear and Fashion Accessories

- Adult and Children Apparel
- Sportswear
- Footwear
- Bags and Luggage
- Shawls, Hats, Gloves, Scarfs, Ties...
- Hairpins, Body ornaments
- Glasses, Cases

Components for Apparel, Footwear and Fashion Industry

- Heels, Lasts, Forms
- Buckles, Ornaments
- Materials (natural or Synthetic)
- Fabric and Yarns
- Finishing and Dying products
- Leather

Home Textiles, Technical Textiles and Safety Products

- Home Textiles and Upholstery
- Safety Clothing, Footwear and products
- Textile for Industrial, Medical, Building and Construction or Professional use
- Catering Textile, Food Contact Textile (Fishing nets, etc.)



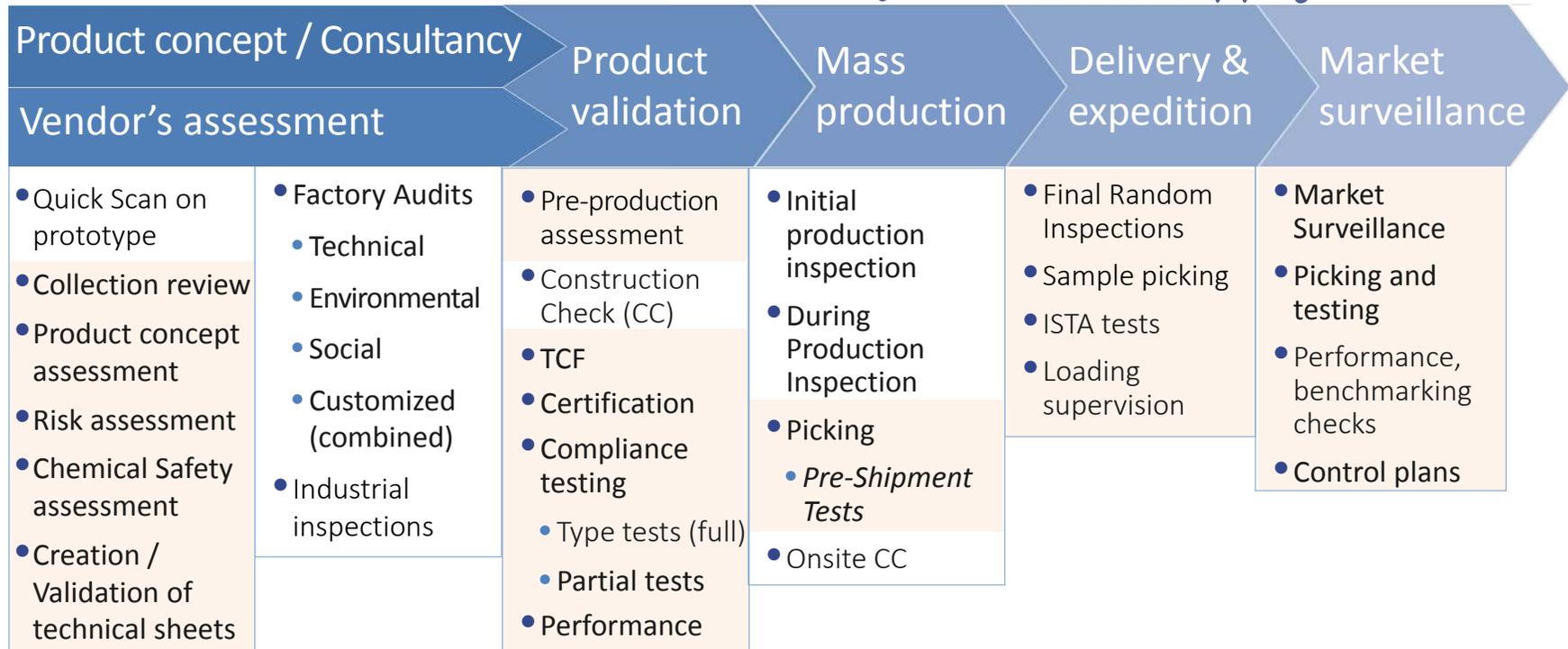
Our Service Scope



Your industry, our focus

Comprehensive Portfolio

Throughout the Supply Chain



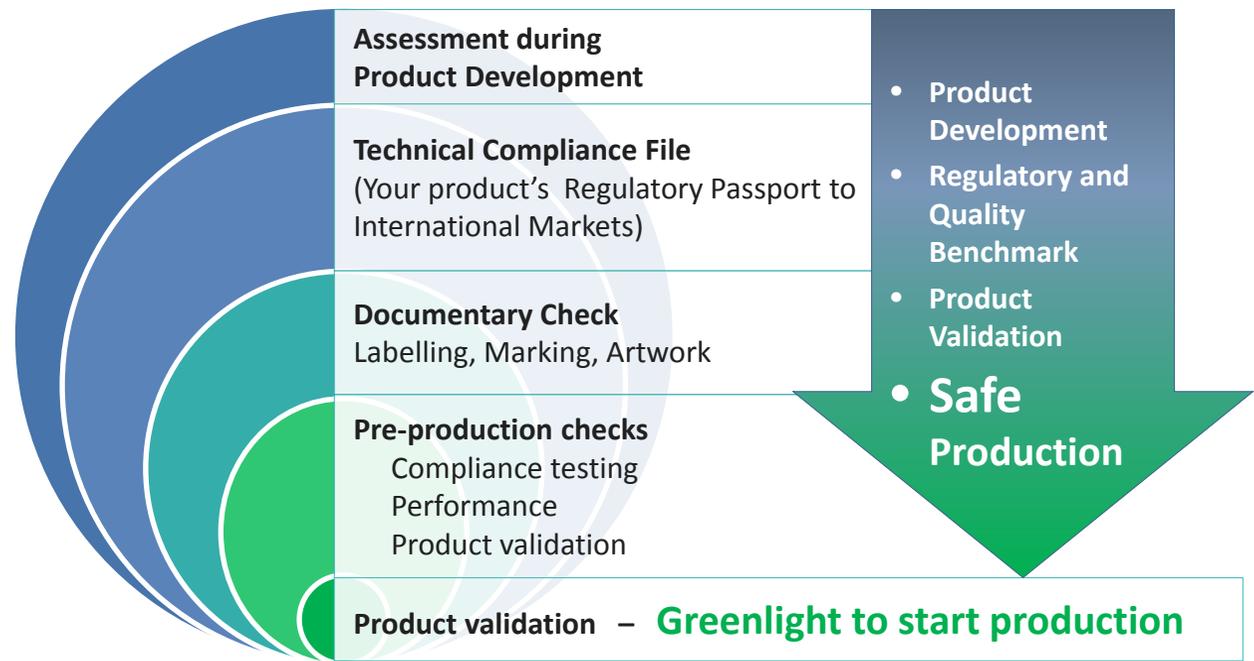


Customized Quality Assurance

- Assessment & Regulatory Services
 - Restricted Substances List for Apparel (Regulatory or customized)
 - Quality Technical & Performance Specification
 - Product Safety
 - Technical Compliance File (TCF)
 - Labelling and Artwork
- Consulting & Support
 - Technical training & Seminars
- Tailored Testing Programs
 - Compliance testing
 - Compositions
 - Product Performance and Quality Benchmark

- *Ensure your product meets the regulatory requirements of your destination markets.*

- *Validate your product to the quality benchmark expected by your end users.*





Chemical analysis

- Phthalates
- Azo-dyes
- SCCP (Short Chain Chlorinated Paraffin)
- 18 PAH (Polycyclic Aromatic Hydrocarbons)
- BPA
- Flame retardant : TCEP, TCPP et TDCP
- Formaldehyde
- Pentachlorophenol and Tetrachlorophenol
- Formamide
- Allergenous dyestuff
- Carcinogen dyestuff
- Organotin
- APEO
- DMFu
- Nickel release
- PFOS and PFOA
- Organochlorines
- Extractable metals (9)
- Chrome VI
- Total Lead
- Total Cadmium
- Fibre composition





Physical and Mechanical Testing | Textile, Leather and more...

- Thread count
- Yarn density
- Weight per unit area
- Size & fitting test
- Colour fastness to:
 - washing
 - dry cleaning
 - light
 - Perspiration
 - pool water
 - sea water
 - Phenolic Yellowing
- Spray test
- Air permeability
- Protection against fire
- Fire resistance
- Dimensional stability to washing with domestic machine
- Snarling after washing
- Appearance after washing with domestic machine
- Pilling Martindale
- Tensile strength
- Burst strength
- Tear resistance Elmendorf
- Seams slippage
- Hydrostatic pressure test
- Passage of filling material through fabric
- Abrasion on socks





Physical and Mechanical Testing | Leather, leatherwear and footwear

- Uppers
(*leather or other materials*)
 - Flex resistance
 - Resistance to tear strength
 - Colour fastness to dry / wet rubbing
- Outsoles
 - Flex resistance
 - Abrasion resistance
 - Tear strength
- Top piece
 - Retention strength
- Top piece/heels
 - Resistance to knocks
- Whole shoe
 - Adhesion between outsole & upper
 - Flex resistance
 - Strength of end point
- Shoes - Tear resistance of lining





Inspections and Audits

Product Inspections

- **Initial Production Inspection** (IPI) - Control on quality, origin and quantity
- **During Production Inspection** (DUPRO) - Inline controls carried out after mass production has started, so as to enable remedial action
- **Final Random Inspection** (FRI) / Pre-Shipment Inspection
Acceptance sampling inspection in accordance with ISO 28591
- **Loading Check**
Logistics, Quantitative and Documentary check

Related services

- **Picking** (if detached from any of above inspections)
Random pick-up of samples to be sent for lab testing.
- **ISTA Testing**
Testing of packaging, pallets and container environmental conditions.

*Eurofins' automated inspection service grant data accuracy and provides clients with direct access to the status of the project by means of a **password secured extranet system**.*

Factory Audits

- Technical
- Social
- Environmental
- Tailor-made
(combination of technical, social and environmental key check points)





In good hands

- Eurofins' technical managers take active part in different Standardization Committees and Industry Associations, thanks to which, Eurofins stands at the forefront of the regulatory market and is therefore able to:
 - Monitor the progress of European and International Standardization procedures.
 - Provide to our industry-related customers with up-dated information about the latest developments and discussions on regulations, even before they are officially published.
 - Grant anticipated assessments about the position and implementation on such draft standards





Europe

- Labelling: Regulation (EU) No. 1007/2011 of the European Parliament and of the Council
- Children's Products Safety:
 - Directive 2001/95/EC of the European Parliament and the Council of 3 December 2001 on General Product Safety
- EN 14682 Safety of Children's Clothing. Cords and Drawstrings on Children's Clothing Specifications
- CEN/TR 16792 Safety of Children's Clothing. Recommendations for the Design and Manufacture of Children's Clothing. Mechanical Safety
- Flammability: Directive 2001/95/EC of the European Parliament and the Council of 3 December 2001 on General Product Safety
- EN 14878 Textile - Burning Behaviour of Children's Nightwear Specification
- Chemical: REACH Regulation No. 1907/2006
- Regulation (EC) No. 850/2004 and Regulation (EU) POP's Regulation

Note that this is a non-exhaustive list meant only to serve as introduction to the complex and constantly changing international regulatory environment.

The information on this and the following pages might run out of date by the time this presentations reaches your hands.

Eurofins commits to provide updated information according to your product ranges and destination markets once you start working with any of our labs.





USA

Composition Labelling

- 16 CFR 303 Rules and Regulations Under the Textile Fibre Products Identification
- 16 CFR 300 Rules and Regulations Under the Wool Products Labelling Act of 1939
- 16 CFR 301 Rules and Regulations Under the Fur Products Labelling Act
- 16 CFR 24 Guide for Select Leather and Imitation Leather Products

Care Labelling

- 16 CFR 423 Care Labelling of Textile Wearing Apparel and Certain Piece Goods as Amended

Safety of Children's Clothing and other

- 16 CFR 1500. 48 & 49 Sharp Point & Sharp Edge Intended Used by Children under 8 Years of Age
- 16 CFR 1501 Small Part in Products for Children under 3 Years of Age
- 16 CFR 1120 Substantial Product Hazard List (Drawstring)





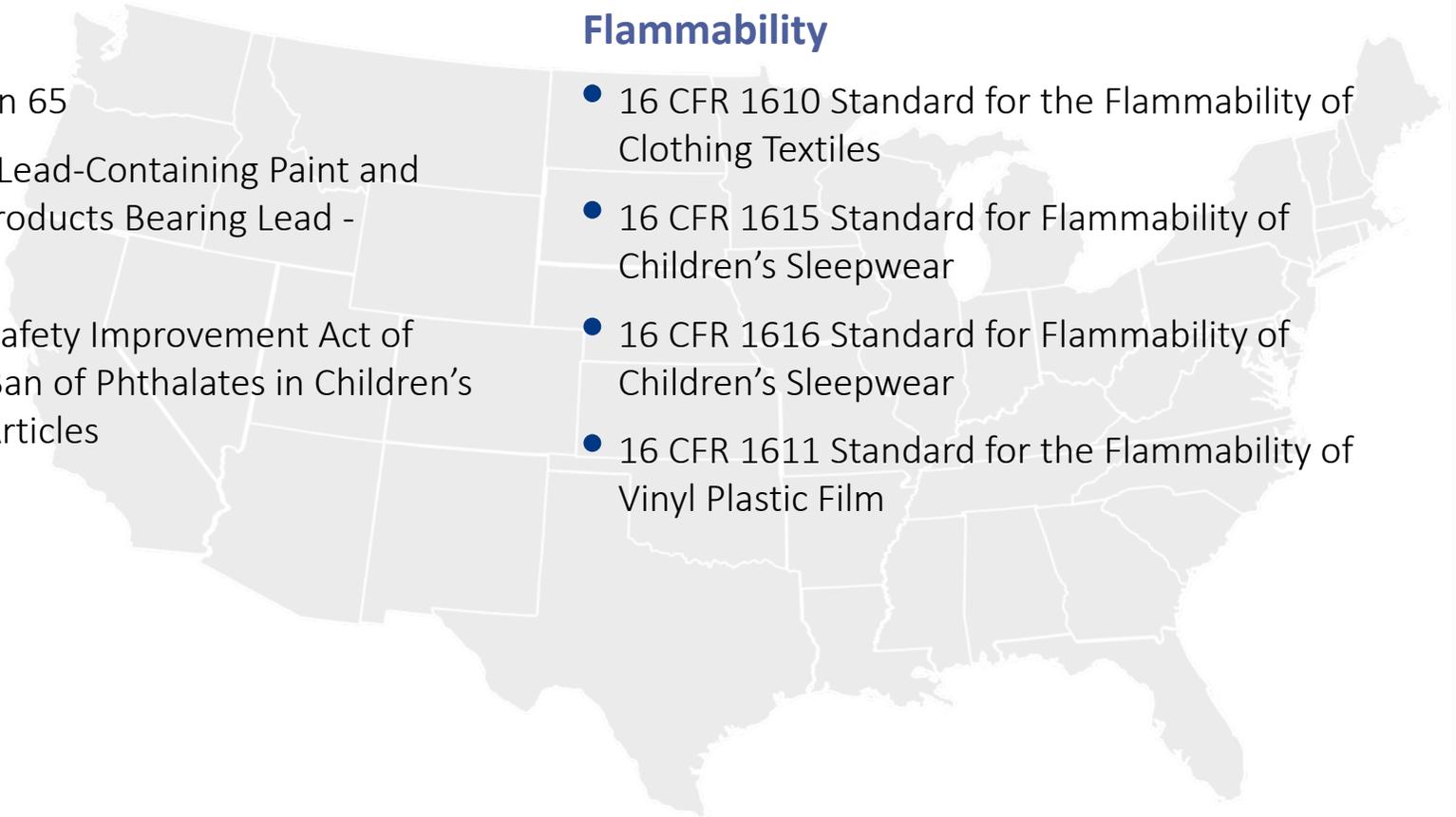
USA

Chemical

- California Proposition 65
- 16 CFR 1303 Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint
- Consumer Product Safety Improvement Act of 2008 - Section 108 Ban of Phthalates in Children's Toys and Childcare Articles

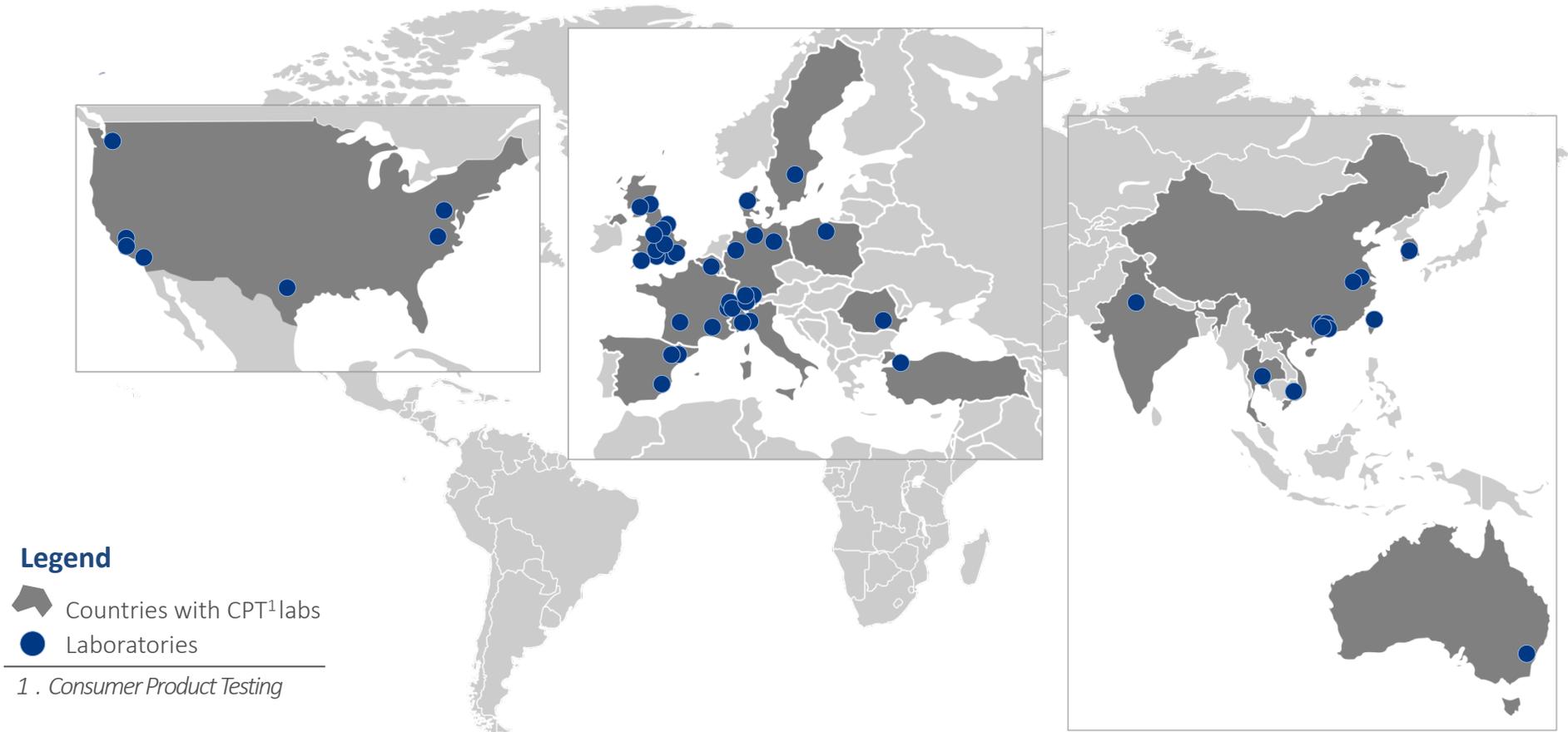
Flammability

- 16 CFR 1610 Standard for the Flammability of Clothing Textiles
- 16 CFR 1615 Standard for Flammability of Children's Sleepwear
- 16 CFR 1616 Standard for Flammability of Children's Sleepwear
- 16 CFR 1611 Standard for the Flammability of Vinyl Plastic Film





Eurofins Consumer Product Testing Laboratories – Worldwide



Geographical Coverage



Your industry, our focus

Eurofins Competence Centres for Textile Testing - Worldwide



Legend

- Countries with CPT¹ labs
- Textile Testing Laboratories

1 . Consumer Product Testing

America

United States
Seattle

Europe

Germany
Wilsum
Spain
Alicante

Turkey
Istanbul

United Kingdom
Northampton

Asia - Pacific

China
Hangzhou
Shanghai
Shenzhen

India
New Delhi
Vietnam
Ho Chi Minh





Consumer Product Testing

Your industry, our focus

www.eurofins.com/CPT