LEATHER, PPE & FOOTWEAR TESTING SERVICES www.ttilabs.net



Tti Testing Laboratories

ISO/IEC 17025 Accredited Testing Laboratory ISO/IEC 17020 Accredited Inspection Body CPSC Accredited Testing Laboratory EPA Certified Testing Laboratory OGRA Approved Lab PSQCA Approved Inspection Agency



ABOUT Tti

Tti is a world class, globally recognized, ISO/IEC 17025 accredited testing facility and ISO/IEC 17020 Accredited and PSQCA Approved Inspection body having the honor of being the first lab approved by US Consumer Product Safety Commission (CPSC) for consumer safety testing in Pakistan. In addition to OGRA Lab approval, Tti is also approved from the Environmental Protection Agency as an EPA certified lab. Tti has a country-wide network of Labs and customer centers including a state of the art purpose built main testing facility in Lahore followed by liaison offices in Karachi, Faisalabad and Sialkot. We at Tti have been in service since 1995 serving a wide range of Industries including Leather, PPE & Footwear, Environmental Protection, government sector, Textiles, Chemical, Oil and Gas, Food and Paint/Coatings. We provide our clients a one stop comprehensive spectrum testing services which helps them add more value to their complex Supply chain, Regulatory Compliance and Brand Integrity.

Physical Test

- Ball burst test (Bursting/Grain crack)
- Measurement of thickness
- · Flex resistance (Leather / whole Shoes / outsole)
- · Finish heat resistance test
- Cold crack of leather
- Tensile strength / percentage of Elongation
- Tear load (Single Edge / Double Edge)
- · Stitch tear strength
- · Determination of shrinkage temperature
- Taber Abrasion test
- Abrasion resistance
- Water Repellency test (Spray test)
- · Determination of moisture of leather

Color Fastness Test

- · Color fastness to machine washing
- Color fastness to mild washing
- Color fastness to water
- · Color fastness to perspiration
- Color fastness to water spotting
- Small sample to solvent (dry cleaning)
- Color fastness to crocking
- · Color fastness to saliva and perspiration
- · Color fastness to rubbing (to-and-fro-rubbing)
- Color fastness to light Xenon lamp (20 hours)

Performence Test (PPE)

Gloves

- EN 388 (Updated Version)
- EN 420
- EN 407
- EN 659
- EN 374
- EN 12477
- EN 13594

Protective Clothing

- EN 469
- EN 13595
- EN 17092
- · ISO 11611
- · ISO 11612
- ISO 14116

Footwear

- EN 344
- EN 20345
- EN 20346
- EN 20347
- EN 13634

CHEMICAL TESTS

Test	Natural Leather	Coated Leather	Coated Fabric	Natural Textile	Synthetic Textile	PVC, TPR, PU, Rubber & Polymers	Ink, Paint	Metals Buckles Trims
pH Value	•	•	•	۲	•			
Formaldehyde Content	•	•	•	٠				
Chromium Content	•	•	•					
Azo Dyes	•				•		۲	
Disperse Dyes Allergic Dyes Carcinogenic Dyes	•	•	•		•	•	•	
Chlorinated Phenois PCP TeCP TriCP OPP		•	•	•			•	
Determination Phenols	•	•	•			•		•
Heavy Metals	•	•	۲	•	•	۲	•	۲
APs & APEOs	•	•	۲	۲	•	۲	•	۲
PolycyclicnAromatic Hydrocarbons (PAH)		•	٠				•	
DMF (DMFu / DMFa)	•	•	•			•		•
Organotins (TBT, TPhT, DBT, DOT)	•	•	•		•	۲	•	
PFOS & PFOA	•	•	•	٠	•			_
Total Lead		•	•		•	•	•	•
Total Cadmium		•	•		•	•	•	•
SCCP & MCCP	•	•	۲			•	•	
VOCs						•	•	
Pesticides	•	•	٠	۰				
Nickel			j į				•	•
REACH Screening (SVHC)	•	•					•	•

INSPECTION SERVICES

- Pre Production Inspections
- Supervision of Loading
- Vendor Assesment

- During Production Inspections
- Post Delivary Inspections
- Sample Evaluation Services

Sectors We Serve:



















Leather

Textile/ Power Apparel Generation

Oil & Gas

Food Processing

Cement

Chemical Manufacturing

Engineering

Housing/ Construction

Sugar



Our Services

Textile Testing Apparel Testing Leather Testing Environmental Testing Petroleum Testing Paints & Coatings Food & Pharmaceutical Testing Restricted Substances Testing Inspections & Audits Trainings





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Lahore

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Faisalabad

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Sialkot

Office: Shaheen Street,Allama Iqbal Town, Deffence Road, Sialkot, Pakistan, Call Us: (92-52) 357 3367 Emails: marketing@ttilabs.net

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Global Presence

PAKISTAN	TURKEY	CHINA	THAILAND			BANGLADESH	TAIWAN	
USA	GERMANY	Hongkong	INDONESIA			Combodia	AUSTRALIA	
UNITED KINGDOM	FRANCE	Korea	SRILANKA			Vietnam	INDIA	
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