

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



ABOUT Tti

Tti is a world class, globally recognized, ISO/IEC 17025 accredited testing facility and ISO/IEC 17020 accredited inspection body having the honor of being the first lab approved by US consumer product safety commission (CPSC) for consumer safety testing in Pakistan. Tti is also approved from Punjab 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 Oil & Gas, Environmental Protection, the government sector, Textiles, Leather, Chemical, 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)

Performance Test (PPE)

Gloves

- EN 388
- 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	●	●	●	●	●			
Formaldehyde Content	●	●	●	●				
Chromium Content	●	●	●					
Azo Dyes	●				●		●	
Disperse Dyes								
Allergic Dyes	●	●	●		●	●	●	
Carcinogenic Dyes								
Chlorinated Phenols								
PCP		●	●	●		●	●	
TeCP								
TriCP								
OPP								
Determination Phenols	●	●	●			●		●
Heavy Metals	●	●	●	●	●	●	●	●
APs & APEOs	●	●	●	●	●	●	●	●
PolycyclicAromatic Hydrocarbons (PAH)		●	●				●	
DMF (DMFu / DMFa)	●	●	●			●		●
Organotins (TBT, TPhT, DBT, DOT)	●	●	●		●	●	●	
PFOS & PFOA	●	●	●	●	●			
Total Lead		●	●		●	●	●	●
Total Cadmium		●	●		●	●	●	●
SCCP & MCCP	●	●	●			●	●	
VOCs						●	●	
Pesticides	●	●	●	●				
Nickel							●	●
REACH Screening (SVHC)	●	●	●	●	●	●	●	●

INSPECTION SERVICES

- Pre Production Inspections
- Supervision of Loading
- Vendor Assesment
- During Production Inspections
- Post Delivery Inspections
- Sample Evaluation Services

Sectors We Serve:



Leather



Textile/
Apparel



Power
Generation



Oil & Gas



Food
Processing



Cement



Chemical
Manufacturing



Engineering



Housing/
Construction



Sugar



Our Services

Textile Testing
 Apparel Testing
 Leather Testing
 Environmental Testing
 Petroleum Testing
 Restricted Substances Testing
 Inspections and Audits
 Trainings



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Lahore

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Faisalabad

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Global Presence

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TAIWAN

AUSTRALIA

