



ISO • ASTM • NFPA • FAA-DOT-FAR

PERSONAL PROTECTIVE EQUIPMENT LABORATORIES RESEARCH & DEVELOPMENT, TESTING, EVALUATION, EXPERTISE

CTT Group is your service center dedicated to textile performance evaluation, specification compliance, comfort evaluation and quality measurements.



■ FLAME RESISTANCE

- FlashFire Man ASTM F1930, ISO 13506
- Flame-resistant garments for protection of industrial personal against flash fire
- NFPA 2112 • Workwear for protection against hydrocarbon flash fire CAN/CGSB 155.20
- Structural and proximity fire fighting NFPA 1971
- Wildland fire fighting NFPA 1977, CAN/CGSB 155.22
- Wearing apparel for use by electrical workers exposed to momentary electric arc and related hazards ASTM F1506



- Arc and flame resistant rainwear ASTM F1891, F2733
- Electrical safety in the workplace NFPA 70E
- Flame resistance of textiles (vertical test) ASTM D6413, CAN/CGSB 4.2 No. 27.10
- Measurements of flame spread properties of vertically oriented specimens
 ISO 6941
- Thermal protective performance of materials for clothing ASTM D4108, CAN/CGSB 4.2 No. 78.1
- Determination of heat transmission on exposure to both flame and radiant heat ISO 17492



- Thermal protective performance of material for protective clothing for hot surface contact ASTM F1060
- Radiant protective performance of flame resistant clothing material ASTM F1939
- Unsteady-state heat transfer evaluation of flame resistance materials for clothing with continuous heating ASTM F2700
- Protective clothing, protection against heat and flame ISO 15025



ISO I ASTM I NFPA I FAA-DOT-FAR

GROUPE CTT

ΤΕΛΜ ΤΕΧΤΙLE

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- Thermal insulation
- Breathability
- Total heat loss (THL)
- Windproofness
- Water resistance
- Waterproofness
- Water repellency
- UV-Proofness (UPF)

HIGH-VISIBILITY APPAREL

- Performance of highvisibility safety apparel
- ANSI/ISEA 107 • Performance highvisibility
- CSA Z96, ISO 20471
- Background materials
- Retroreflection measurement
- Garment design

TOXICITY

- Formaldehyde content
- ∎ pH
- Heavy metals
- Lead content
- Phthalates
- VOC

CHEMICAL

- Specialized equipment such as: HPLC-MS
- GC-MS
- HS GC-MS
- TD GC-MS
- FT-IR
- Chemical exposure, permeation, durability to challenge chemicals ASTM F903

ACCELERATED AGEING

- Xenon & Carbon Arc ASTM G155
- Fluorescent tube ASTM G154
- Salt Fog
- ASTM B117
- Ageing in climatic chamber (T°C RH)
- Gelbo & cold flexing ASTM D 2097, ASTM F 392, ISO 4675
- Colorfastness testing

GLOVES

 Glove function (dexterity, tactility, grip) ANSI - ISEA 105

- Performance of protective gloves for use by law inforcement, corrections and military personnel NIJ 99-114
 - Protective gloves against mechanical risks EN 388
 - Protective gloves against cold EN 511
 - Cut resistance ASTM F2992, EN 388
 - Needle puncture ASTM 2878
 - Abrasion
 - ASTM D3389, D3884 Holes in medical gloves
 - ASTM D5151
 - Potection against heat ISO 17493
 - Damage by flexing ISO 7854
 - Low temperature bend test ISO 4675
 - Dexterity EN 420, ASTM F2010

For more information, please contact info@gcttg.com