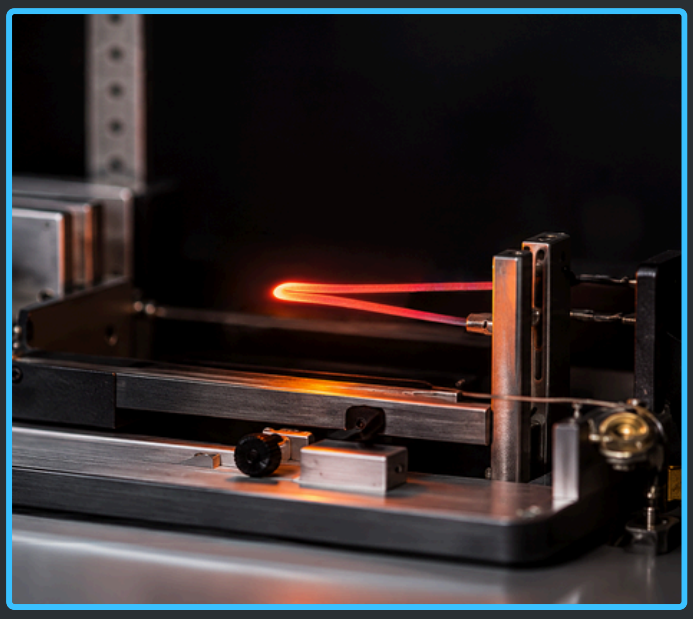
QUALITEST NORTH AMERICA

Advanced Testing Technologies

NEWSLETTER

October, 2026



Glow Wire Fire Hazard Testing:
Manual Control or Automated Certification

October 2026 – Every glow wire test starts with the same real-world failure: a resistor drifts out of tolerance, a connection loosens, a heating element runs hot, and a glowing surface presses against the plastic housing nearby. The question a lab has to answer is never just how hot did it get? It's did the plastic ignite, and if it did, how long did it keep burning once the heat source pulled away?

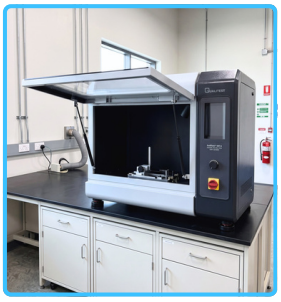
Qualitest's QualiFlame™ GWT Series answers that question across the compliance workflow – a benchtop unit for quick screening checks, a chambered version for labs that need contained combustion testing, and a computer-controlled system for labs that must report certified glow-wire ignition temperature (GWIT) and flammability index (GWFI) values under IEC 60695-2-13.

Product Highlight

Automatic Glow Wire Tester (GWIT and GWFI)

QualiFlame™ GWT-A

Computer-controlled glow wire ignition test system for certified GWIT and GWFI determination.



Feature/Advantages:

- **Real-Time Curve Acquisition:** Displays temperature-time and current-time traces during tests, eliminating stopwatch errors.
- **Multi-Point Software Calibration:** Enhances accuracy with linear corrections across multiple temperature and current points without hardware changes.
- **Dual Gigabit Networking:** Two Ethernet ports with IEEE 1588 support connect to lab data networks.
- **Concealed Check-Valve Extraction:** Electric check-valve exhaust adjusts up to 2 m^3/min at 55 dB or less, preventing combustion product entry into the lab.



Qualitest USA

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Glow Wire Tester

QualiFlame™ GWT-C

Benchtop glow wire tester with an integrated test chamber for contained combustion screening.



Feature/Advantages:

- **Dark Interior and Black Background:** Enhance visibility of faint flames through a large window.
- **Supplied Exhaust Pipe:** Routes combustion products out of the enclosed ≥0.5 m^3 chamber without a custom extraction fitting.
- **Touch Screen Program Control:** Automates the process, ensuring consistent results based on material.
- **Separate Channels for Ignition and Extinction Timing:** Allow independent logging of events from 0 to 999.9 seconds with automatic recording.

Glow Wire Tester

QualiFlame™ GWT

Open-bench glow wire tester for labs already running a dedicated fume enclosure.



Feature/Advantages:

- **Continuously Variable Current Adjustment:** Sets any tip temperature across 500°C to 1000°C without switching taps or ranges.
- **Built-In Ammeter Monitoring:** Gives a second live reference point alongside the temperature reading during setup.
- **Remote Control Box:** Starts/stops the sequence away from the panel while the operator watches the specimen directly.
- **Consumables Kit Included:** Ships with a spare glow wire loop, thermocouple, silver foil, and specimen materials to start testing immediately.

QualiTrivia

A resin's published GWFI or GWIT rating comes from flat test plates, not the finished part.

A molded housing with thin walls, sharp corners, or an assembly seam can still fail glow wire contact even when its base material tests well on paper.

Where required by the applicable product standard, end-product glow-wire testing under IEC 60695-2-11 evaluates the response of the finished product or component under specified test conditions. Material test results alone do not establish finished-product compliance.



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Which QualiFlame™ GWT System Matches Your Lab Workflow?

BEST FOR	RECOMMENDED MODEL	WHY THIS IS THE BEST FIT?
For computer-controlled GWIT/GWFI determination, real-time curve acquisition and automatic data recording.	QualiFlame™ GWT-A	Computer-controlled sequencing and curve logging remove operator timing error and produce audit-ready records automatically.
For laboratories requiring an integrated test chamber.	QualiFlame™ GWT-C	The enclosed ≥0.5 m^3 chamber and supplied exhaust pipe contain and vent combustion products without extra ductwork.
For laboratories requiring an open-bench configuration without an integrated test chamber.	QualiFlame™ GWT	The open-bench configuration skips the built-in chamber for labs with existing extraction, keeping footprint smaller.

Why Choose Qualitest

Standards Aligned for Global Certification:
IEC 60695-2-10/-2-13 and UL 746A coverage across the lineup lets one instrument generation serve both IEC-based and UL-based compliance programs.

Automated Data You Can Audit
The GWT-A's real-time curve logging and calibrated timing channels produce GWIT/GWFI records a certification body can trace back to raw data.

Financing That Matches Lab Budgets:
Qualitest's finance packages let labs bring automated glow wire testing in-house instead of outsourcing every ignition-temperature determination.

Worldwide Service and Support:
Qualitest's service network across North America, EMEA, and APAC keeps calibration, consumables, and repair support close to wherever the lab operates.

Ready to Bring Glow Wire Fire Hazard Testing in-house?

The QualiFlame™ GWT Series covers screening through certified GWIT/GWFI reporting in one product family. Explore the full lineup: https://www.worldoftest.com/fire-and-flammability-testing-equipment/

For guidance on configuring the right glow wire tester for your compliance program: sales@qualitest-inc.com

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