



COPPER STRIP CORROSION TESTER

Copper Strip Corrosion Tester | ASTM D130 & ASTM D1838 Compliant Testing

A copper strip corrosion tester exposes a polished copper strip to a fuel, oil, or LPG sample at a controlled temperature, then rates the resulting tarnish against a standard color chart to flag active sulfur compounds. Petroleum labs, refineries, fuel terminals, and LPG bottling plants run this check under ASTM D130 and ISO 2160 for liquid fuels and lubricants, or ASTM D1838 and ISO 6251 for LPG.

This range covers a standard water bath model, a higher-throughput metal bath model with touch-screen control, and a dedicated LPG tester built for pressurized samples. Match the tester to your product slate and the standard it falls under.

Why Choose Torontech for Your Copper Strip Corrosion Tester

Torontech supplies testing and measurement equipment to laboratories and manufacturers across North America and worldwide, backed by responsive technical support and calibration service. The Copper Strip Corrosion Tester range is built for reliable, standards-driven results, so you can standardize on one supplier as your testing needs grow. Our team helps you match the right configuration to your samples, applicable standards, and throughput, then supports you through installation and beyond.

Request a Quote

Tell us which petroleum products or LPG grades you test most, and we will match you to the right copper strip corrosion tester for your lab. [Contact the Torontech team](#) for pricing and lead times.

APPLICATIONS

Applications

Copper strip corrosion testing is a standard quality control checkpoint across the fuel and lubricant supply chain, confirming that a product will not attack copper and copper-alloy parts in service.

- Petroleum Refining: confirms gasoline, diesel, jet fuel, and lubricating oil leave the refinery free of corrosive sulfur compounds before certification.
- Aviation and Aerospace: qualifies aviation gasoline and jet fuel, including Jet-A and Jet-A1, against the copper and bronze components in aircraft fuel systems and engines.
- Automotive Fuel Blending: checks gasoline and ethanol blends at the point of blending, terminal, and distribution against the Class 1 corrosion rating most specifications require.
- Midstream and Terminal Operations: helps pipeline operators and storage terminals confirm that fuel stays on-spec as it moves through transfer and storage infrastructure.
- LPG Production and Bottling: verifies that propane, butane, and LPG blends will not corrode the copper and copper-alloy fittings used in cylinders, regulators, and distribution equipment.
- Lubricant Manufacturing: qualifies finished lubricating oils and greases for engines, gear systems, and hydraulic circuits that contain copper alloy bearings and bushings.

TECHNICAL SPECIFICATIONS

Copper Strip Corrosion Tester Range

The Torontech lineup spans three configurations built around how the sample behaves under test: routine petroleum liquids, high-volume petroleum testing, and pressurized LPG.

Copper Strip Corrosion Tester (TT-130)

A four-station water bath tester built to ASTM D130, covering aviation gasoline, aviation turbine fuel, automotive gasoline, kerosene, diesel fuel, distillate fuel oil, lubricating oil, and Stoddard solvent. Digital temperature control runs the bath from room temperature to 100°C, and the four-way format suits labs running routine, lower-volume corrosion checks on general petroleum products.

Metal Bath Copper Strip Corrosion Tester (TT-130J)

An 8-station integrally cast aluminum metal bath, six test tube wells and two pressure bomb wells, with PID control to $\pm 0.1^{\circ}\text{C}$ and a 7-inch touch screen offering five preset ASTM/ISO temperature points. Built to ASTM D130 and ISO 2160, plus the fuel and lubricant specifications that reference them, it suits labs running higher volumes or several petroleum product types side by side.

LPG Copper Strip Corrosion Tester (TT-1838)

A dedicated tester for liquefied petroleum gases, built to ASTM D1838 and ISO 6251, the copper strip methods written specifically for LPG rather than less volatile liquid fuels. Its stainless steel bath holds two pressure test bombs, so propane, butane, and LPG blends can be tested safely as sealed, pressurized samples.

How to Choose the Right Copper Strip Corrosion Tester

- For routine QC on liquid fuels and lubricants: choose the TT-130 water bath model for straightforward ASTM D130 testing at a lower per-station cost.
- For labs testing several petroleum product types or running higher sample volumes: choose the TT-130J metal bath model for its 8-station capacity, $\pm 0.1^{\circ}\text{C}$ PID control, and touch-screen operation.
- For LPG, propane, or butane copper corrosion testing: choose the TT-1838, built specifically for pressurized samples under ASTM D1838 and ISO 6251.
- For labs handling both liquid fuels and pressurized gas products: pair the TT-130 or TT-130J with the TT-1838 to cover both testing scopes without outsourcing either one.



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