



TORONTECH

CORROSION TESTER FOR ENGINE COOLANTS



Corrosion Tester for Engine Coolants TT-1384

Corrosion Test for Engine Coolants TT-1384 complies with ASTM D1384 Standard Test Method for Corrosion Test for Engine Coolants in Glassware.

This test method serves to differentiate between coolants that may cause corrosion and those that warrant further evaluation. However, the results of this test alone are not sufficient evidence of effective corrosion inhibition. The true effectiveness of an engine coolant formulation can only be determined through more extensive bench, dynamometer, and field tests.

APPLICATIONS

The Torontech TT-1384 is used to perform the foundational ASTM D1384 glassware corrosion test. This method is a critical screening tool for evaluating the effectiveness of an engine coolant's corrosion inhibitor package. By exposing a standard set of metal coupons to the coolant under controlled conditions, it provides an essential initial assessment of the fluid's potential to protect or corrode key cooling system components.

This fundamental corrosion analysis is essential for:

- **Coolant & Additive Manufacturing:** As a primary tool for the research, development, and quality control of new coolant formulations and inhibitor technologies, providing a standardized benchmark for performance.
- **Automotive & Engine OEMs:** Used to screen and approve coolants for factory-fill and service applications, ensuring compatibility with the diverse metals used in modern engines and radiators.
- **Fleet Maintenance & Heavy Equipment:** Provides the technical basis for selecting properly formulated, long-life coolants that protect high-value assets, preventing premature failure of water pumps, radiators, and engine blocks.
- **Power Generation:** Critical for validating the protective qualities of coolants used in large stationary engines for power generation and gas compression, where long-term reliability is paramount.

FEATURES

- The equipment incorporates the latest self-tuning temperature control system, providing digital display and precise temperature regulation.
- The heating system utilizes a metal aluminum plate structure, ensuring rapid and uniform heating.
- Accurate airflow control is achieved through shunting.
- It is equipped with a Low Temperature Circulating Bath to maintain the supply of condensate water.
- An air pump is included to maintain airflow into the system, enabling simultaneous testing of up to six groups.

TECHNICAL SPECIFICATIONS

1. Rated Voltage: AC 220V $\pm$ 20, 50Hz (110V also available)
2. Heating Rate: 0.4KW $\times$ 6
3. Temperature Control Range: Room temperature to 200°C
4. Accuracy: $\pm$ 2°C
5. Airflow Rate: 100ml/min $\pm$ 10ml/min



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