



BOILING POINT OF ENGINE COOLANTS APPARATUS

Boiling Point of Engine Coolants Apparatus TT-1120

Boiling Point of Engine Coolants Apparatus TT-1120 is designed and manufactured according to ASTM D1120, the Standard Test Method for Boiling Point of Engine Coolants.

Boiling Point of Engine Coolants Apparatus TT-1120 determines the equilibrium boiling point of engine coolants, indicating the temperature at which the sample will start to boil in a cooling system under equilibrium conditions at atmospheric pressure.

APPLICATIONS

The Torontech TT-1120 is used to determine the equilibrium boiling point of engine coolants as specified by ASTM D1120. This fundamental test measures a coolant's ability to resist vaporization at atmospheric pressure, providing a critical indicator of its performance in preventing engine boil-over and subsequent overheating, which can lead to catastrophic engine damage.

This essential quality and performance test is vital for:

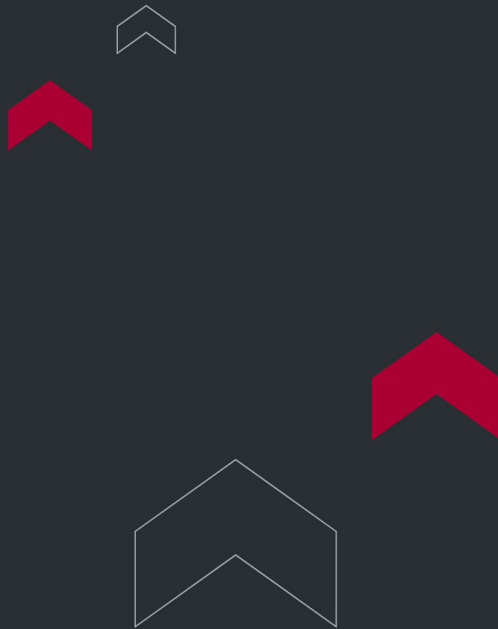
- **Coolant & Antifreeze Manufacturing:** As a primary quality control test for every production batch, ensuring the final product meets its specified boil-over protection claims before distribution.
- **Automotive & Engine OEMs:** For the validation and approval of factory-fill coolants, guaranteeing they can withstand the high operating temperatures of modern, compact engine compartments.
- **High-Performance & Racing:** To qualify specialty coolants that provide maximum boil-over protection under the extreme thermal loads generated during motorsports and high-output applications.
- **Fleet Maintenance & Heavy Equipment:** Used to verify the quality of coolants for trucks, buses, and construction machinery that operate under sustained heavy loads, where preventing boil-over is critical to avoiding downtime.

FEATURES

- The apparatus consists of a solid-state voltage regulator, heating mantle, and glassware.
- The apparatus uses a solid-state voltage regulator with stepless temperature adjustment, making it easy to control the temperature.
- The voltage regulator operates without contact, sparks, or noise, ensuring stable performance.
- A voltmeter displays the voltage changes made by the solid-state voltage regulator, providing a convenient and clear view.

TECHNICAL SPECIFICATIONS

1. Supply voltage: AC 220V $\pm 20\%$ 50Hz (110V also available)
2. Heating power: 0-230W (continuously adjustable)
3. Temperature control mode: Solid-state voltage regulator (stepless)
4. Adjustable display: AC voltmeter 0-250V
5. Ambient requirements: Temperature 10-40°C; Humidity $\leq 85\%$



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