

FOAMING TENDENCY TESTER



Foaming Tendency Tester TT-1881

Foaming Tendency Tester TT-1881 complies with the ASTM D1881 Standard Test Method for Foaming Tendencies of Engine Coolants in Glassware.

Foaming Tendency Tester TT-1881 is designed to differentiate between coolants prone to excessive foaming and those appropriate for further assessment to gauge performance under real-world conditions.

APPLICATIONS

The primary application of the Foaming Tendency Tester TT-1881 is to determine the **foaming tendencies of engine coolants**, in compliance with the **ASTM D1881** standard. The test evaluates a coolant's propensity to foam under controlled conditions of aeration and temperature. Excessive foaming is an undesirable characteristic as it can reduce the coolant's heat transfer efficiency and potentially lead to pump cavitation and engine overheating.

Key Industries

- **Coolant/Antifreeze Manufacturing:** This is the primary industry for this test. Manufacturers use it for essential quality control to ensure their products (both concentrates and ready-to-use formulations) meet performance specifications and will not cause foaming-related issues in an engine's cooling system.
- **Automotive and Heavy Equipment:** OEMs (Original Equipment Manufacturers) in the automotive, trucking, and heavy equipment sectors use this test to specify and qualify the coolants for use in their vehicles and machinery. This ensures the long-term reliability and performance of their cooling systems.
- **Additive Manufacturing:** Chemical companies that develop and produce the anti-foaming agents and other additives used in coolant formulations rely on this test for research, development, and quality control of their chemical packages.



FEATURES

- Integrated design for easy operation.
- Features an automatic timing device with customizable settings.
- Utilizes a quick water shut-off valve for convenient replacement of bath liquid.
- Test cup designed for quick plug-in, ensuring fast, stable, and safe operation.
- Includes a precise flow meter for controlling flow rate, adjustable at any time.
- Equipped with a dedicated pump for stable air feed and noise-free operation.

TECHNICAL SPECIFICATIONS

1. Rated Voltage: AC220V $\pm$ 10%, 50Hz (110V also available)
2. Heating Power: 2000W
3. Air Flow Rate: Controlled by precise flow meter
4. Temperature Range: Ambient to 99.9°C
5. Timing Method: Automatic, adjustable settings
6. Ambient Temperature Requirement: -10°C to +40°C
7. Humidity: $\leq$ 85%



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