

MANUAL CLEVELAND OPEN CUP FLASH POINT TESTER



Manual Cleveland Open Cup Flash Point Tester TT-92

Manual Cleveland Open Cup Flash Point Tester TT-92 adheres to the ASTM D92 Test Standard method for Flash and Fire Points by Cleveland Open Cup Tester.

Manual Cleveland Open Cup Flash Point Tester TT-92 utilizes the Cleveland open-cup method to examine the flash point and fire point of lubricating oil and dark petroleum products (excluding fuel oil and petroleum products with an open flash point lower than 79°C).

APPLICATIONS

The primary application of the Manual Cleveland Open Cup Flash Point Tester TT-92 is to determine the flash point and fire point of lubricating oils and dark petroleum products, in compliance with the ASTM D92 standard. This safety test measures the lowest temperature at which vapors from the oil will ignite (flash point) and the temperature at which they will sustain a flame (fire point). It is specifically used for higher-boiling point products, excluding those with a flash point below 79°C.

Key Industries

- **Lubricant Manufacturing:** This is a fundamental quality control and safety test for manufacturers of all types of lubricating oils (engine, industrial, gear). The flash point is a required specification on product data sheets and safety data sheets (SDS) for safe handling, storage, and transport.
- **Petroleum Refining:** Refineries use this tester to characterize and ensure the quality of heavier petroleum fractions, such as the base oils that are the primary component of finished lubricants, as well as other dark products like asphalt binders.
- **Industrial Maintenance & Reliability (e.g., Manufacturing, Power Generation):** In-house or third-party labs use this test as part of predictive maintenance programs. A significant drop in the flash point of an in-service lubricant can indicate contamination with a more volatile substance (like fuel or a solvent), signaling a potential equipment issue that

needs to be addressed.

FEATURES

- The upper cover includes a standard fireball comparer, making it easy to operate.
- Heating is controlled with a stepless voltage regulator, ensuring even heating rates.

TECHNICAL SPECIFICATIONS

1. Rated voltage: AC220V $\pm$ 10%, 50Hz. (110V also available)
2. Heating power: 0~1000W (Continuously adjustable).
3. Temperature measurement range: 90~400°C.
4. Ignition gas: Pipeline coal gas, liquid gas, with gas pressure less than 10Kpa.
5. Ignition method: Ignition is manually controlled.
6. Ambient requirements: Temperature: 10~40°C, Humidity: $\leq$ 85%.



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