



AUTOMATIC TAG CLOSED CUP FLASH POINT TESTER

Automatic Tag Closed Cup Flash Point Tester TT-56Z

Automatic Tag Closed Cup Flash Point Tester TT-56Z conforms to ASTM D56 Standard Test Method for measuring flash points using the Tag Closed Cup Tester.

Flash point measures the tendency of a sample to form a flammable mixture with air under controlled laboratory conditions. It is one of several properties considered when assessing the overall flammability hazard of a material.

Flash point is used in shipping and safety regulations to define flammable and combustible materials. It is important to consult specific regulations for precise definitions of these classifications.

Flash point can also indicate the possible presence of highly volatile and flammable substances in a relatively nonvolatile or nonflammable material. For instance, an unusually low flash point in a kerosene sample might suggest gasoline contamination.

APPLICATIONS

The primary application of the Automatic Tag Closed Cup Flash Point Tester TT-56Z is to determine the **flash point of volatile liquids**, in compliance with the **ASTM D56** standard. This is a critical safety test that measures the lowest temperature at which a liquid gives off enough vapor to form an ignitable mixture with air. The results are used to classify materials as flammable or combustible for regulatory purposes and as a quality control check to detect volatile contaminants, such as gasoline contamination in kerosene.

Key Industries

- **Petroleum Refining:** Refineries use this test for essential safety and quality control on their most volatile products, such as solvents, naphthas, and kerosene, to ensure they meet the required specifications for safe handling, storage, and transportation.

- **Chemical Manufacturing:** The chemical industry relies heavily on this test to classify a wide range of volatile products (e.g., alcohols, solvents, esters) according to flammability regulations. The flash point is a mandatory piece of information on Safety Data Sheets (SDS).
- **Transportation & Logistics:** This industry is a primary user of the data generated by this test. Shipping companies (air, sea, rail, and road) require the flash point to properly classify, label, and segregate materials in accordance with national and international dangerous goods regulations to ensure safe transport.

FEATURES

- Fast refrigeration speed with a deep cooling capability, enabling oil sample tests down to -50°C
- Reduces temperature from room temperature to -60°C in just 30 minutes
- Supports slope temperature increases at rates of 3°C/min and 1°C/min
- Includes a liquid level overflow port and a liquid adding port
- Features a Glass PT100 sensor with a temperature sensing rate equivalent to a thermometer
- Touch screen operation with a thermal printer, capable of storing thousands of data entries
- Equipped with an unknown flash point detection feature
- Ion ring automatically detects flash point and controls on/off scribing ignition

TECHNICAL SPECIFICATIONS

1. Rated voltage: AC 220V (110V also available)
± 10%, 50Hz
2. Power: 1500W
3. Operation: Touch LCD
4. Test temperature: -40 to 70°C
5. Ignition gas source: Pipelined gas or LPG, with pressure less than 10 Kpa
6. Printer: Thermal printer

7. Cooling mode: Double compressor refrigeration
8. Ambient requirements: Temperature 10 to 40°C, Humidity $\leq$ 85%



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