



FULLY AUTOMATIC COLD FILTER PLUGGING POINT TESTER(CFPP)

Fully Automatic Cold Filter Plugging Point Tester(CFPP) TT-6371

Fully Automatic Cold Filter Plugging Point Tester (CFPP) TT-6371 complies with the national standard SH/T 0248 and ASTM D6371.

It utilizes modern advanced technology, including mechanical, optical, electronic, and computer technology, to automatically test the cold filter plugging point of petroleum products. The automatic cold filter plugging point analyzer uses optical detection technology, while a compressor refrigeration system ensures the necessary refrigeration depth. With its reasonable structure, stable performance, and simple operation, the automatic cold filter plugging point tester is the ideal detection equipment.

APPLICATIONS

The primary application of the Fully Automatic Cold Filter Plugging Point Tester TT-6371 is to determine the **low-temperature operability of diesel fuels and heating oils**, in compliance with standards like **ASTM D6371**. The test identifies the Cold Filter Plugging Point (CFPP), which is the lowest temperature at which a fuel will still pass through a standardized filter. This is a critical performance specification that predicts how a fuel will behave in cold weather and is essential for preventing fuel starvation in vehicles and heating systems due to wax crystallization.

Key Industries

- **Petroleum Refining:** This is a mandatory quality control test for refineries producing diesel fuel and heating oil. The CFPP is a key specification that must be met, and it often varies seasonally to ensure the fuel is suitable for the intended climate.
- **Automotive and Heavy Equipment:** For the transportation sector, CFPP is a crucial fuel property. Exceeding this temperature limit can lead to clogged fuel filters in trucks, buses, and off-road equipment, causing engine failure. This test ensures the fuel is fit for use in cold conditions.

- **Third-Party Testing Laboratories:** These independent labs provide essential services to the entire fuel supply chain—from refineries and pipeline operators to distributors and end-users. They perform routine CFPP testing to certify that fuel meets the required specifications for winter performance.

FEATURES

- The equipment features a high degree of automation, featuring automatic cooling, sample aspiration, detection, and result saving. The entire test process occurs without human intervention.
- The instrument is equipped with two experimental units, allowing for parallel testing or single-group detection.
- Utilizing automation control technology, the instrument offers a user-friendly interface and photoelectric automatic detection.
- With its integrated design, the instrument mitigates damage from floor vibration and impact, ensuring accurate test data.
- Incorporating a photoelectric liquid level sensor, the instrument accurately detects the horizontal surface position, enabling precise judgment of the cold filter plugging point.
- Equipped with a built-in vacuum pump and electronic precision pressure balance system, the instrument ensures automatic balancing of suction filtration pressure at the set value.
- The instrument automatically controls the cooling medium and maintains a stable temperature difference between the sample being tested, ensuring controlled and uniform cooling rates.

TECHNICAL SPECIFICATIONS

1. Temperature measuring range: -45 to 50°C; resolution 0.1°C
2. Pressure measuring range: 0 to 200.0KPa; resolution 1Pa
3. Test samples: 2-way

4. Temperature measurement element: PT100
5. Detection method: photo detector
6. Refrigeration: Refrigeration Compressors
7. Control mode: single-chip control
8. Ambient temperature: 10 to 35°C



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