

OXIDATION STABILITY TESTER FOR DISTILLATE (ACCELERATION METHOD)



Oxidation Stability Tester for Distillate (Acceleration Method) TT-2274Z

Oxidation Stability Tester for Distillate (Acceleration Method) TT-2274Z adheres to the ASTM D2274 Standard Test Method for Oxidation Stability of Distillate Fuel Oil (Acceleration Method).

Oxidation Stability Tester for Distillate (Acceleration Method) TT-2274Z is designed to measure the inherent stability of middle distillate petroleum fuels under specified oxidizing conditions at 95°C.

APPLICATIONS

The primary application of the Oxidation Stability Tester TT-2274Z is to determine the **inherent stability of middle distillate petroleum fuels**, such as diesel and heating oil, in compliance with the **ASTM D2274** standard. The test uses an accelerated aging method, exposing the fuel to oxygen at 95°C, to predict its tendency to form sludge, gums, and other insoluble materials during long-term storage. This is a critical quality control test to ensure fuel stability and prevent operational issues like filter plugging.

Key Industries

- **Petroleum Refining:** This is an essential quality control test for refineries. They must ensure that their distillate fuels (diesel, heating oil) are stable enough to be stored for extended periods by distributors and end-users without degrading and forming harmful sediments.
- **Fuel Storage and Distribution (Midstream):** For operators of large storage terminals and pipelines, this test is crucial for managing fuel inventory. The oxidation stability of the fuel determines its shelf life and helps prevent the formation of sludge in large storage tanks, which can lead to significant operational problems and product loss.
- **Power Generation (Standby Generators):** This is a critical test for facilities that rely on stored diesel fuel for emergency or standby power generators (e.g., hospitals, data centers). The fuel may be stored for months or years, and

this test ensures it will remain in a usable condition and not cause engine failure due to clogged filters when it is needed most.

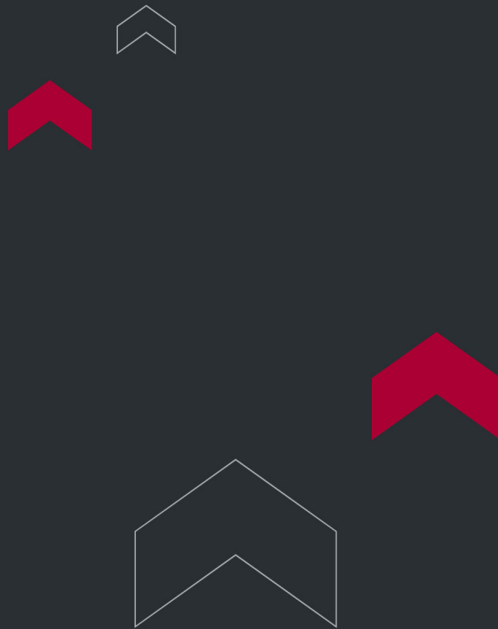
FEATURES

- Automatically completes the oxidation and cooling procedures sequentially, making it easy to operate.
- The oxidation thermostatic bath is equipped with either 6 or 4 holes, enhancing testing efficiency.
- The flow meter features a voltage and steady flow stabilization device, ensuring high precision of flow.
- Temperature control utilizes a digital display temperature controller, providing high precision temperature control.
- The oxidation process utilizes a digital stopwatch for time-keeping.
- Sample cooling is achieved through air cooling, taking less than four hours.
- The oxidation thermostatic bath is equipped with liquid level control, ensuring automatic adjustment to maintain the liquid level during the oxidation process.
- It is kept away from direct sunlight during oxidation and cooling processes to ensure the credibility and reliability of the sample data.
- The instrument is designed with rationality and an attractive appearance. It is easy to operate, safe, and reliable.

TECHNICAL SPECIFICATIONS

1. Rated voltage: AC220V $\pm$ 10%, 50Hz (110V also available)
2. Heating power: 2400W
3. Temperature control: 95°C
4. Precision of temperature control: $\pm$ 0.2°C
5. Bath hole: Four or Six

6. Timer: Digital stopwatch
7. Cooling mode: Wind-cooled
8. Flowmeter: 50 ± 5 ml/min
9. Motor stirrer: 75W
10. Ambient temperature: 10~40°C
11. Humidity: $\leq 85\%$



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