



OXIDATION STABILITY TESTER FOR MINERAL INSULATING OIL

Oxidation Stability Tester for Mineral Insulating Oil TT-2440

Oxidation Stability Tester for Mineral Insulating Oil TT-2440 conforms to the ASTM D2440 Standard Test Method for Oxidation Stability of Mineral Insulating Oil.

Oxidation Stability Tester for Mineral Insulating Oil TT-2440 measures the resistance of mineral transformer oils to oxidation under specific accelerated aging conditions. Oxidation stability is determined by evaluating the tendency of oils to form sludge and acid products during oxidation. This test method applies to new oils, both uninhibited and inhibited, but it is not clearly defined for used or reclaimed oils.

APPLICATIONS

The Torontech TT-2440 performs the ASTM D2440 test to determine the oxidation stability of mineral insulating oil. This accelerated aging test is a critical predictor of an oil's service life, measuring its resistance to forming corrosive acids and insulating sludge. This analysis is fundamental to ensuring the long-term reliability and operational integrity of high-voltage electrical equipment.

This oxidation stability assessment is essential for asset management in:

- **Electric Power Utilities:** Used for quality assurance of new transformer oil and to monitor the health of oil in existing transformers and switchgear, directly impacting grid stability and preventing catastrophic failures.
- **Transformer Manufacturing:** Serves as a crucial quality control step to certify that the insulating oil used in new equipment meets stringent industry and customer performance specifications.
- **Heavy Industrial Plants:** For maintenance teams managing privately-owned substations in facilities like refineries and steel mills, this test is vital for preventing unplanned outages due to transformer failure.
- **Renewable Energy Operations:** Ensuring the long-term performance of insulating oil in transformers at wind and solar farms, where equipment reliability is key to maximizing power generation and revenue.

FEATURES

- Metal bath heating ensures even and stable temperature.
- The latest gas regulator maintains stable output pressure.
- Equipped with six test stations, capable of performing a single test or six tests simultaneously.
- Six flow meters adjust and indicate the corresponding gas flow rates.
- Digital display timer records the test time.

TECHNICAL SPECIFICATIONS

1. Rated Voltage: AC 220V $\pm 10\%$ 50Hz (110V also available)
2. Temperature Control Mode: Digital display temperature controller
3. Temperature Range: Ambient to 160°C
4. Temperature Accuracy: $\pm 0.2^\circ\text{C}$
5. Temperature Measuring Element: Thermal resistance
6. Test Stations: 6
7. Note: Can use an oxygen tank as the gas source



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