

LUBRICATING OIL FILTERABILITY TESTER



Lubricating Oil Filterability Tester TT-13357

Lubricating Oil Filterability Tester TT-13357 is manufactured in accordance with the standards for Petroleum products - Determination of lubricating oils' filterability - Part 2: Procedure for dry oils.

It is utilized to assess the filterability of lubricating oil primarily derived from mineral oil, particularly hydraulic oil in hydraulic systems. It's not designed for liquids derived from other materials, such as flame-retardant liquids, as they might be incompatible with the filter membrane used in this method. Additionally, it's not suitable for certain hydraulic oils with unique properties containing insoluble or partially dissolved additives or specialized macromolecular substances.

APPLICATIONS

The primary application of the Lubricating Oil Filterability Tester TT-13357 is to determine the filterability of lubricating oils, particularly hydraulic oils, in a "dry" condition (meaning without water contamination). The test assesses the oil's ability to pass through a fine filter membrane without causing an excessive pressure drop or filter plugging. This is a critical performance characteristic, as poor filterability can lead to blocked filters, pump starvation, and failure of the equipment the oil is designed to protect.

Key Industries

- **Lubricant Manufacturing:** This is a fundamental quality control and product development test. Lubricant blenders must ensure their formulations, especially for hydraulic oils, have excellent filterability to meet the stringent requirements of modern hydraulic systems that use very fine filters.
- **Industrial Manufacturing:** This is a crucial end-user industry. Modern manufacturing equipment (e.g., injection molding machines, CNC machines, stamping presses) relies on sophisticated hydraulic systems with sensitive servo-valves and fine filters. This test is used to qualify hydraulic oils to ensure they will not cause filter blockages, which can lead to costly production downtime.

- **Additive Manufacturing:** Chemical companies that produce the various additives used in lubricant formulations use this test to evaluate the impact of their additives on the overall filterability of the finished oil. Incompatibilities between additives can sometimes lead to poor filterability.

FEATURES

- The glass fittings meet standard requirements.
- Digital display for time, facilitating simple operation and easy observation.
- Precision regulator valve adjustment allows pressure control within 86658pa.
- The instrument features an integrated structure design for ease of operation.
- The shell is constructed from cold-rolled steel plate, with a surface treated using electrostatic spray, ensuring excellent rust resistance and ease of cleaning.
- Electronic stirrer equipped with stainless steel paddle rod and paddle.

TECHNICAL SPECIFICATIONS

1. Applicable standards: SH/0805, ISO 13357.
2. Timing method: Digital display timer.
3. Pressure control: Precision pressure regulator adjustment for accurate control, with pressure tolerance of ± 5 Kpa.
4. Solvent receiver: Special solvent filter receiver bottle.
5. Rotation mode: Reduction gear motor drive with automatic reversal.
6. Stirring method: Motor stirring at 1500r/min $\pm$ 50 r/min.
7. Power supply: AC220V 50Hz. (110V also available)
8. Pressure display: Digital meter display.
9. Total machine power: 2500W.
10. Instrument size: 510*400*620mm.
11. Net weight: 38KG.



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