



SEMI-AUTOMATIC LUBRICATING OIL EVAPORATION LOSS TESTER (NOACK TEST)

Semi-Automatic Lubricating Oil Evaporation Loss Tester (NOACK Test) TT-5800BZ

Semi-Automatic Lubricating Oil Evaporation Loss Tester (NOACK Test) TT-5800BZ conforms to ASTM D5800 Standard Test Method for Evaporation Loss of Lubricating Oils by the Noack Method, Procedure A.

It utilizes the automated Woods metal Noack evaporative apparatus. The evaporation loss of lubricating oils is particularly important in engine lubrication, as high temperatures can cause portions of the oil to evaporate. This apparatus is suitable for determining the evaporation loss of lubricating oil, especially engine oil, and lubricating base oil at 250°C.

APPLICATIONS

The primary application of the Semi-Automatic Lubricating Oil Evaporation Loss Tester TT-5800BZ is to determine the **evaporation loss (volatility) of lubricating oils**, particularly engine oils and base oils, using the Noack method, in compliance with **ASTM D5800**. The test measures the percentage of oil that evaporates at a high temperature (250°C), which is a critical performance indicator for predicting oil consumption and stability in modern engines.

Key Industries

- **Lubricant Manufacturing:** This is a mandatory quality control test for lubricant blenders formulating engine oils. International specifications from organizations like API, ACEA, and ILSAC set strict limits on Noack volatility, making this test essential for product certification.
- **Automotive and Engine Manufacturing:** Automakers and engine manufacturers specify low volatility oils for their vehicles to ensure engine durability, reduce oil consumption, and help control emissions. They rely on the Noack test to qualify oils for factory-fill and service-fill recommendations.

- **Additive Manufacturing:** Chemical companies that produce high-performance synthetic base stocks (like PAOs) and antioxidant additives use this test to demonstrate the superior quality and low volatility of their products to lubricant manufacturers.

FEATURES

- Equipped with a metal bath heating device for safe and environmentally friendly operation.
- Utilizes differential pressure gauge to ensure accurate pressure readings.
- Incorporates Woods alloy into the bath body for enhanced heat transfer efficiency.
- Features a digital timer to accurately record test duration.
- The evaporation crucible meets ASTM standards.
- Includes a precision pressure regulation system and needle valve for precise flow regulation.
- Utilizes an temperature control gauge for precise temperature control.
- Allows users to input the sample weight, with automatic calculation of testing results. Additionally, it can store and print test data for convenience.

TECHNICAL SPECIFICATIONS

1. Rated voltage: AC220V $\pm$ 10%, 50Hz. (110V also available)
2. Power: 1300W.
3. Temperature control method: LCD display.
4. Voltage regulation: Precise needle valve.
5. Temperature control point: 250 $\pm$ 0.5°C.

6. Pressure display: Inclined manometer.

7. Ambient requirements: Temperature between 10°C and 40°C; humidity $\leq 85\%$.

Package Information

1. Dimension: 740*720*740mm

2. Volume: 0.4m³

3. Weight: 45kg



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