

GREASES OXIDATION STABILITY APPARATUS



Greases Oxidation Stability apparatus TT-942Z

Greases Oxidation Stability apparatus TT-942Z complies with the ASTM D942 Standard Test Method for Oxidation Stability of Lubricating Greases by the Oxygen Pressure Vessel Method.

Greases Oxidation Stability apparatus TT-942Z assesses the resistance of lubricating greases to oxidation while stored statically in an oxygen atmosphere within a sealed system at elevated temperatures under test conditions.

APPLICATIONS

The primary application of the Full Automatic Biodiesel Oxidation Stability TT-14112A is to determine the oxidation stability of biodiesel, specifically Fatty Acid Methyl Esters (FAME), using an accelerated oxidation test.

The apparatus operates in full compliance with the EN 14112 standard to measure how resistant the biodiesel is to degradation under controlled conditions. This is a crucial quality control parameter to ensure the fuel remains stable during transportation, storage, and use.

Key Industries

- **Lubricant Manufacturing:** This is a fundamental quality control and product development test. Grease manufacturers must ensure their products have sufficient oxidation stability to meet performance specifications and provide a long service life, especially for greases intended for sealed-for-life applications or high-temperature service.
- **Automotive and Heavy Equipment:** OEMs in these sectors specify greases with a certain level of oxidation stability for applications like wheel bearings and constant-velocity (CV) joints. This test is used to qualify greases to ensure they will not harden, produce deposits, or fail prematurely due to oxidation.
- **Aerospace and Industrial:** These industries use greases in a wide range of critical applications, from aircraft components to industrial motor bearings. The oxidation stability is a key performance parameter that ensures the grease will provide reliable, long-term lubrication and not degrade in storage or service.

FEATURES

- All procedures are controlled via a touch-enabled LCD screen, which not only records and displays test values but also automatically determines the final point.
- The apparatus is equipped with 0.1 level pressure transmitters, along with a pressure calibration device.
- An Agilent measured transmitter processor is included with the apparatus.
- The apparatus features an accurate oxygenating connector for convenient usage.
- Standard heatproof vessel and vessel stand are provided with the equipment.

TECHNICAL SPECIFICATIONS

1. The rated voltage is AC220V $\pm$ 10% 50Hz. (110V also available)
2. The heating power is 1500W.
3. The temperature control point is set at 99°C.
4. Temperature control accuracy is within $\pm$ 0.1°C.
5. Operation is facilitated through a 4-wire touch-enabled LCD interface.
6. The sensor used is Pt100 (RTD).
7. The apparatus includes 2 test stations.
8. Ambient requirements include a temperature range of 10 to 40°C and humidity not exceeding 85%.



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