



GREASE OIL SEPARATION TESTER

Grease Oil Separation Tester - TT-1742

Grease Oil Separation Tester TT-1742 adheres to the ASTM D1742 Standard Test Method for Oil Separation from Lubricating Grease During Storage.

This equipment assesses the propensity of a lubricating grease to release oil while stored in containers, whether fully or partially filled. It is not applicable for greases softer than NLG1 No.1 grade. The procedure involves placing the grease sample on a 75- μ m (No.200) sieve and subjecting it to 1.72kPa (0.25psi) air pressure for 24 hours at 25°C (77°F). Any oil leakage is collected in a beaker and quantified by weight.

APPLICATIONS

The Torontech TT-1742 quantifies oil separation in stored lubricating grease per ASTM D1742. By applying a precisely regulated 1.72 kPa of air pressure for 24 hours, the instrument provides a definitive measure of a grease's storage stability. Digital pressure and temperature controls ensure exceptional test precision and repeatability.

This analysis is critical for quality control and validation in:

- **Lubricant Manufacturing:** Batch release testing to guarantee the shelf stability of packaged greases and prevent oil bleed.
- **Automotive & Aftermarket:** Validating the shelf life of greases in retail packaging to ensure product integrity for service professionals and consumers.
- **Aerospace & Defense:** Qualifying greases for long-term strategic storage, ensuring the operational readiness of critical assets.
- **Industrial MRO:** Incoming inspection of grease inventory to prevent the use of separated lubricants in critical machinery.

FEATURES

- The digital pressure gauge shows the pressure reading.
- A high-precision needle valve regulates the pressure.
- The temperature is displayed digitally by a temperature controller.
- The compressor cooling system is completely enclosed and features internal circulation.

TECHNICAL SPECIFICATIONS

1. Test units: 2
2. Temperature control: $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$
3. Pressure range: $1.72\text{kPa} \pm 0.07\text{kPa}$
4. Sieve aperture: $75\mu\text{m}$
5. Pressure display: Precision digital pressure gauge
6. Cooling method: Completely enclosed compressor cooling



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