



HIGH-TEMPERATURE FOAMING CHARACTERISTIC APPARATUS

High-Temperature Foaming Characteristic Apparatus TT-6082

High-Temperature Foaming Characteristic Apparatus TT-6082 complies with the ASTM D6082 Standard Test Method for High Temperature Foaming Characteristics of Lubricating Oils.

It is utilized to gauge the propensity of oils to foam at elevated temperatures, which can pose significant issues in systems such as high-speed gearing, high-volume pumping, and splash lubrication. Foaming has the potential to lead to insufficient lubrication, cavitation, and loss of lubricant through overflow.

APPLICATIONS

The primary application of the High-Temperature Foaming Characteristic Apparatus TT-6082 is to evaluate the foaming tendencies of lubricating oils at high temperatures (150°C), in compliance with the ASTM D6082 standard. This test is specifically designed to assess an oil's performance under severe operating conditions where foaming can be particularly problematic, such as in high-speed gearboxes and high-volume pumping systems. The test measures both the amount of foam generated and its stability, which are critical indicators of the oil's ability to provide continuous lubrication.

Key Industries

- **Lubricant Manufacturing:** This is a crucial quality control and development test for formulators of high-performance lubricants. It is particularly important for engine oils, transmission fluids, and industrial gear oils that are expected to operate under high temperatures and stress.
- **Automotive and Heavy Equipment:** This industry relies on this test to ensure that lubricants used in modern, high-temperature applications—like turbocharged engines and heavy-duty transmissions—will resist foaming and continue to provide adequate protection, preventing issues like lubricant starvation and cavitation.
- **Additive Manufacturing:** Chemical companies that develop and produce the anti-foam agents and other additives used in high-temperature lubricant formulations use this test extensively for research, development, and quality control.

of their chemical packages.

FEATURES

- Utilizes stainless steel foam to ensure accurate results.
- Features a heat-resistant glass bath, offering transparency and safety.
- Incorporates a precise flow meter for accurate measurements.
- Equipped with an air tower and air pump for enhanced functionality.
- The KN-6082A model comes with double baths, each featuring 4 holes and 4 groups of flow meters.

TECHNICAL SPECIFICATIONS

1. Rated Voltage: AC220V $\pm$ 10% 50Hz (110V also available)
2. Power: 2000W
3. Timing Method: Digital timer
4. Foam Pump: Utilizes Stainless steel
5. Temperature Control Point: Maintains at 150°C $\pm$ 0.5°C
6. Sensor: Uses Pt100 sensor for accurate readings
7. Bath Stirring: Motor-driven stirring mechanism
8. Ambient Requirements: Temperature range between 10-40°C; Humidity level should be $\leq$ 85%



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