

APPARATUS FOR DEMULSIBILITY CHARACTERISTICS OF LUBRICATING OILS



Apparatus for Demulsibility Characteristics of Lubricating Oils TT-2711

Apparatus for Demulsibility Characteristics of Lubricating Oils TT-2711 complies with ASTM D2711 Standard Test Method for Demulsibility Characteristics of Lubricating Oils.

Apparatus for Demulsibility Characteristics of Lubricating Oils TT-2711 is designed to measure the ability of oil and water to separate from each other. It is specifically intended for testing medium and high-viscosity lubricating oils.

APPLICATIONS

The primary application of the Apparatus for Demulsibility Characteristics of Lubricating Oils TT-2711 is to measure the **demulsibility** of medium and high-viscosity lubricating oils, in compliance with the **ASTM D2711** standard. The test evaluates how effectively and quickly an oil can separate from water after being emulsified. This is a critical performance property, as good water separability is essential to prevent corrosion, oil degradation, and reduced lubrication in systems where water contamination is a risk.

Key Industries

- **Lubricant Manufacturing:** This is a fundamental quality control and product development test for lubricant blenders. They use it to verify the performance of their formulations—especially for turbine, hydraulic, and circulating oils—to ensure they meet the water separation characteristics required by industry specifications.
- **Power Generation:** This is a crucial end-user industry, particularly for steam turbine applications where water contamination from steam leaks is a constant concern. The demulsibility of the turbine oil is a critical performance parameter that is monitored to protect bearings and other components from rust and wear.
- **Industrial Manufacturing (Heavy Industry):** Sectors such as steel mills, paper mills, and mining operations use large circulating oil and hydraulic systems that are often exposed to water. They rely on lubricants with excellent demulsibility to allow for the easy removal of water, which is essential for protecting gears, bearings, and hydraulic

components from failure.

FEATURES

- The constant temperature bath is constructed from explosion-proof glass.
- This apparatus is designed for testing the demulsibility of medium and high viscosity lubricating oils.
- The heating bath features digital display temperature control.
- Temperature accuracy is $\pm 0.1^{\circ}\text{C}$.
- The bath is equipped with a lighting device.
- The number of revolutions of the separating funnel stirring motor is displayed via the revolution counter, facilitating timed stirring.
- The stirrer is automatically lifted, providing convenience of use.
- Equipped with a separating funnel.

TECHNICAL SPECIFICATIONS

Standard	ASTM D2711
Heating method	Electric heating tube
Temperature range	Ambient~82℃
Accuracy	$\pm 0.1^{\circ}\text{C}$
Speed regulation	Precision potentiometer, digital display
Heating power	2.5KW
Rated Voltage	AC220V,50,Hz (110V also available)



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