

LOW TEMPERATURE KINEMATIC VISCOSITY TESTER



Low Temperature Kinematic Viscosity Tester TT-445L

Low Temperature Kinematic Viscosity Tester TT-445L conforms to the ASTM D445 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity). It is designed for testing kinematic viscosity at temperatures of 0°C and below for liquid petroleum products (Newtonian liquid).

APPLICATIONS

The primary application of this tester is to determine the kinematic viscosity of liquid petroleum products (specifically Newtonian liquids) at low temperatures, in compliance with the ASTM D445 standard.

It is specifically designed for conducting tests at temperatures of 0°C and below.

FEATURES

- Digital display temperature controller ensures high precision temperature control and easy adjustment.
- Utilizes a Dewar cold bath known for its transparency and excellent insulation properties.
- Equipped with lighting to facilitate observation of the sample within the cold bath.
- Features an compressor utilizing advanced refrigeration technology for enhanced cooling capacity and speed.
- Incorporates a motor stirrer to ensure thorough mixing and maintain constant cold bath temperature.
- The cold bath cover is equipped with two holes and a new viscometer clip for easy operation. This setup allows for parallel testing of oil samples, improving efficiency.
- The instrument is designed with a rational structure, appealing appearance, and straightforward operation.

TECHNICAL SPECIFICATIONS

1. Rated voltage: AC 220V $\pm 10\%$ 50Hz (110V also available)
2. Power: 1200W
3. Heating power: 800W
4. Cold bath volume: 8L
5. Temperature control: Digital display temperature control
6. Temperature range: -20°C to -60°C
7. Temperature accuracy: $\pm 0.1^\circ\text{C}$
8. Temperature sensor: Pt100 (Platinum resistor)
9. Slot holes: Single Hole
10. Mixing method: Mixing motor, 1200r/min
11. Cooling time: ≤ 120 minutes
12. Ambient temperature: $\leq 30^\circ\text{C}$, Humidity $\leq 80\%$



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