



PETROLEUM WAX MELTING POINT TESTER

Petroleum Wax Melting Point Tester TT-127

Petroleum Wax Melting Point Tester TT-127 conforms to ASTM D127, the Standard Test Method for Drop Melting Point of Petroleum Wax, Including Petrolatum.

The melting point is a key property for most wax consumers, indicating the performance characteristics of the wax. The drop melting point, as measured by Test Method D127, is commonly used to assess the melting characteristics of petrolatum and other high viscosity petroleum waxes.

APPLICATIONS

The Torontech TT-127 is used to determine the drop melting point of petroleum waxes, including petrolatum and other high-viscosity types, in accordance with ASTM D127. This test is crucial for characterizing softer waxes where other methods are unsuitable, providing a key measure of the temperature at which the material becomes fluid. This property dictates the product's thermal stability and performance in its final application.

This analysis is essential for quality control and formulation in:

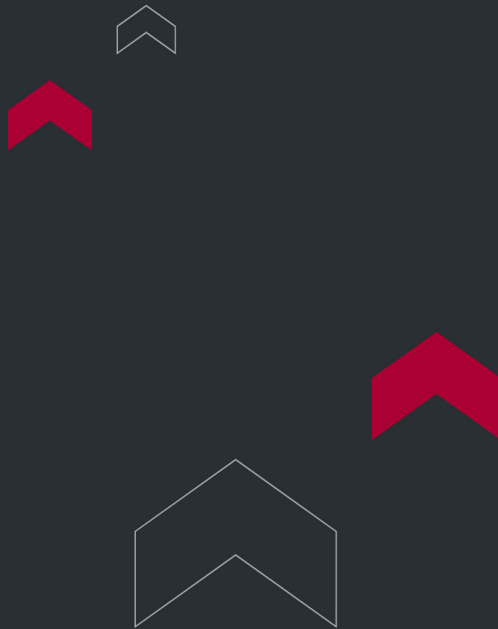
- **Cosmetics & Pharmaceuticals:** As a primary quality control test for petrolatum (petroleum jelly), ensuring it has the correct consistency for use in ointments, lotions, and balms, providing thermal stability and the desired skin-feel.
- **Food Processing & Packaging:** To verify the melting characteristics of microcrystalline waxes used as protective coatings on cheese and other food products, ensuring the coating's integrity during storage and handling.
- **Industrial & Rust Proofing:** For qualifying petrolatum-based rust-preventative compounds and specialty lubricants, where the drop melting point defines the upper service temperature limit and prevents dripping.
- **Adhesives & Laminates:** To control the performance of high-viscosity waxes used in laminating paper, foil, and in certain hot-melt adhesive formulations, directly influencing application temperature and bond characteristics.

FEATURES

- Digital display PID temperature controller with an accuracy of $\pm 1^{\circ}\text{C}$.
- Utilizes a high borosilicate glass cylinder, providing transparent observation of the sample and excellent heat preservation.
- Features compressor refrigeration, producing ample cooling to maintain a constant temperature.
- Constructed from steel plate with an electrostatic spraying process, offering durability and strong corrosion resistance.

TECHNICAL SPECIFICATIONS

1. Applicable standards: ASTM D127, ISO 2707
2. Wax bath temperature range: $4^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$
3. Transparent bath temperature range: 16 to 150°C (ambient temperature $\leq 20^{\circ}\text{C}$)
4. Temperature control mode: Digital display temperature programming
5. Heating mode: Stainless steel electric tube heating
6. Cooling mode: Compressor
7. Test stations: 2
8. Heating power: 1500W
9. Cooling power: 500W
10. Total power: 2000W
11. Rated voltage: AC 220V $\pm 10\%$, 50Hz (110V also available)



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