



PETROLEUM WAX MELTING POINT APPARATUS (COOLING CURVE METHOD)

Petroleum Wax Melting Point Apparatus (Cooling Curve Method) TT-87

Petroleum Wax Melting Point Apparatus (Cooling Curve Method) TT-87 adheres to ASTM D87, the Standard Test Method for Melting Point of Petroleum Wax (Cooling Curve).

This method is utilized for determining the melting point (cooling curve) of petroleum wax. However, it is not suitable for waxes belonging to the petrolatum group, microcrystalline waxes, or blends of such waxes with paraffin wax or scale wax.

APPLICATIONS

The Torontech TT-87 is used to determine the melting point of petroleum wax according to the ASTM D87 cooling curve method. This test provides a fundamental quality control measurement, establishing the precise temperature at which wax solidifies. This characteristic is critical for ensuring lot-to-lot consistency and predicting the wax's performance in its final application.

This essential quality assurance test is vital for product integrity in:

- **Packaging Industry:** To verify that waxes used for coating paper and corrugated containers have the correct melting point to provide a consistent moisture barrier and prevent melting during storage and transit.
- **Candle Manufacturing:** As a primary quality check to control the wax's physical properties, which directly impacts the candle's structural form, burn characteristics, and overall quality.
- **Cosmetics & Pharmaceuticals:** For controlling the consistency and thermal stability of waxes used as a base in creams, ointments, and lipsticks to ensure product integrity and a consistent user experience.
- **Adhesives & Coatings:** To ensure the performance of hot-melt adhesives and various industrial coatings, where the melting point dictates application temperature, set time, and the final properties of the bond or coating.

FEATURES

- Featuring an integrated structure combining a water bath and air bath.
- Comes equipped with an electronic timer alongside the temperature control meter, ensuring ease of operation.

TECHNICAL SPECIFICATIONS

1. Input power: AC 220V $\pm$ 10% 50Hz (110V also available)
2. Heating power: 93°C water bath 1KW
3. Temperature control range: room temperature to 100°C
4. Temperature control accuracy: $\leq \pm 1^{\circ}\text{C}$
5. Ambient temperature: around 25°C
6. Relative humidity: $\leq 85\%$



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