

PETROLEUM WAX OIL CONTENT ANALYZER



Petroleum Wax Oil Content Analyzer TT-721

Petroleum Wax Oil Content Analyzer TT-721 conforms to ASTM D721, the Standard Test Method for Oil Content of Petroleum Waxes.

Petroleum Wax Oil Content Analyzer TT-721 is designed for determining the oil content in petroleum waxes with a congealing point of 30°C (86°F) or higher, as measured by Test Method D938, and containing no more than 15% oil.

APPLICATIONS

The Torontech TT-721 is used to precisely determine the oil content of petroleum waxes in accordance with ASTM D721. This analysis is a fundamental measure of wax purity, as residual oil content directly impacts critical performance properties such as hardness, blocking tendency, and taste/odor. It is an essential quality control test for ensuring wax meets stringent end-use specifications.

This critical purity analysis is essential for process and quality control in:



- **Food Packaging & Processing:** To verify that waxes used for coating paper, cartons, and food items have minimal oil content to prevent product contamination, ensure barrier integrity, and avoid imparting any taste or odor.
- **Cosmetics & Pharmaceuticals:** For controlling the purity of waxes used in formulations like lipsticks, creams, and ointments, where excess oil can negatively affect texture, stability, and product feel.
- **Candle Manufacturing:** As a primary quality assurance check to ensure wax purity, which is critical for achieving a clean, consistent burn, maintaining structural integrity, and minimizing soot.
- **Adhesives, Inks & Polishes:** To control the composition of wax-based formulations, as oil content acts as a plasticizer and directly influences properties like hardness, flexibility, and final performance.

FEATURES

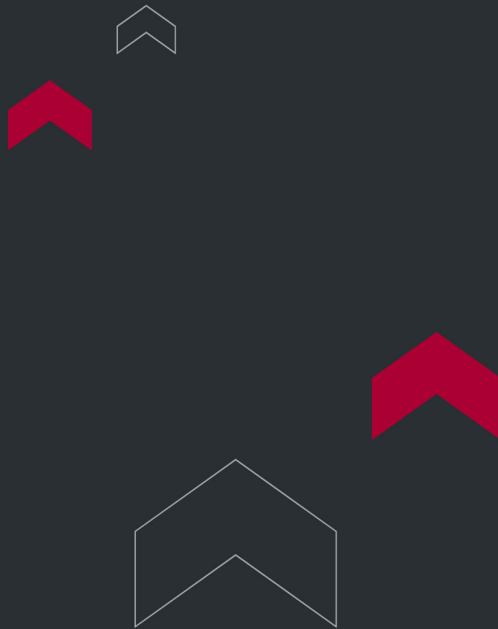
- Separate temperature control system ensures accurate test temperatures.
- Fully enclosed compressor refrigeration with a copper cooling bath.
- Electronic heating bath with a top-mounted stirring device and stainless steel heater.
- Standard glass tube meets ISO requirements.
- Evaporation device allows for transparent observation.
- Four airflows divided into two controlled paths ensure accurate flow rates.
- Microcomputer controller with PID, digital temperature display (continuous during testing) accurate to 0.1°C, with a convenient Pt100 RTD temperature probe.

TECHNICAL SPECIFICATIONS

1. Standard: ASTM D721
2. Temperature control: PID digital temperature controller
3. Cooling method: Compressor
4. Heating method: Heating pipe
5. Working temperatures: $0\pm0.5^{\circ}\text{C}$, $-34.5\pm0.5^{\circ}\text{C}$, $90\pm0.5^{\circ}\text{C}$

6. Evaporation device: 4 tubes at $35\pm 1^{\circ}\text{C}$

7. Power supply: AC $220\text{V}\pm 10\%$, 50Hz (110V also available)



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