

Melting Point Apparatus



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The MSKI51SWISS Capillary Melting Point Apparatus integrates advanced high-precision temperature control technology, delivering accurate, stable, and reliable test results. It also ensures an efficient and user-friendly testing experience. The apparatus features automatic detection and real-time graphical display, enabling precise measurement of both the melting point and melting range of samples.

Product Overview

Innovation Highlights to Boost Efficiency:

- Dual-sample processing capability.
- High integration with one-touch measurement functionality.
- Fully automated recording of melting range, initial, and final melting points.
- Compliance with standards: SNT0801.5-2015, GB/T24892-2010, GBT12766-2008.

Technical Specifications

- **Temperature Resolution:** 0.1°C
- **Heating Rate:** 0.1°C to 20°C (200-step adjustable)
- **Accuracy:** $\pm 0.3^{\circ}\text{C}$ (<250°C); $\pm 0.5^{\circ}\text{C}$ (>250°C)
- **Repeatability:** $\pm 0.1^{\circ}\text{C}$ at 0.1°C/min
- **Sample Processing Capacity:** Up to 3 samples simultaneously
- **Display Mode:** High-definition TFT color screen
- **Data Interface:** USB and RS232 network port
- **Capillary Size:** Outer diameter $\varnothing 1.4\text{mm}$; Inner diameter $\varnothing 1.2\text{mm}$
- **Instrument Dimensions:** 400mm x 280mm x 330mm
- **Power Supply:** 220V, 50Hz, 120W

Key Features

1. **Refrigeration System:** Supports simultaneous processing of three samples.
2. **One-Touch Detection:** Minimizes human error through automatic detection.
3. **PID Temperature Control:** Ensures precise temperature regulation.
4. **Recording & Playback Functionality:** Allows for detailed experimental review.
5. **Standards Compliance:** Fully meets national and ISO standards for oil melting point determination.

Applications

Ideal for the chemical industry and medical research, the Capillary Melting Point Apparatus is essential in the production and quality control of food, pharmaceuticals, fragrances, dyes,

and various organic crystal substances.

Additional Product Details

This apparatus swiftly and accurately determines the melting points of solid and paste samples. It is equipped with a platinum temperature sensor, which provides rapid response and high accuracy, surpassing traditional mercury thermometers. With an integrated heating system, it maintains a consistent heating rate. The digital optical sensor and intelligent software minimize subjective judgment, reducing experimenter workload and enhancing precision.