

## Melting Point Apparatus



### Melting Point Apparatus

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:** ±0.3°C (<250°C); ±0.5°C (>250°C)
- **Repeatability:** ±0.1°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 ?1.4mm; Inner diameter ?1.2mm
- **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.