Melting Point Apparatus

Model **MSKI51SWISS** | Brand **Master Science** | Unit **Pc**



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.

KEY HIGHLIGHTS

- Refrigeration System
- One-Touch Detection
- PID Temperature Control
- Recording & Playback Functionality
- Additional Product Details

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Key Features

HIGH INTEGRATION WITH ONE-TOUCH MEASUREMENT FUNCTIONALITY.

Fully automated recording of melting range, initial, and final melting points.

Refrigeration System
Supports simultaneous processing of three samples.

One-Touch Detection
Minimizes human error through automatic detection.

PID Temperature Control
Ensures precise temperature regulation.

Recording & Playback Functionality
Allows for detailed experimental review.

Standards Compliance
Fully meets national and ISO standards for oil melting point determination.

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.

Additional Information
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.

Technical Specifications

PARAMETER	SPECIFICATION
Compliance with standards	SNT0801.5-2015, GB/T24892-2010, GBT12766-2008.
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 φ1.4mm; Inner diameter φ1.2mm
Instrument Dimensions	400mm x 280mm x 330mm
Power Supply	220V, 50Hz, 120W