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Product Name :

Apparatus Melting Point

Product Code :

SLE/CH/06



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Description :

Apparatus Melting Point (Product Code: SLE/CH/06) is an electrically heated instrument for finding the melting point of solid samples packed in capillary tubes, covering temperatures from ambient to 350 °C. Its ergonomic design puts safety and ease of operation first, which makes it well suited to school, college and university teaching labs where students check the purity and identity of organic compounds. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, and forms part of the chemistry lab equipment in India and abroad that it supplies.

Specifications

Parameter	Detail
Temperature range	Ambient to 350 °C
Heating block	Aluminium, with ceramic insulation around it to minimise heat transfer to the casing
Controls	Single front-panel knob combining the main switch with an arbitrary 0 to 10 scale
Rapid heating	Rapid heat switch for reaching higher temperatures quickly
Sample viewing	Sample tubes illuminated from behind and magnified through a lens
Background	Rear selector for light or dark background
Electrical supply	230V AC, 50/60Hz
Weight	1.5 kg
Supplied with	Instructions
Optional accessories	Thermometer, capillary tubes, cooling plug

Typical Use

A finely powdered sample is packed into the closed end of a capillary tube, which is placed in the heating block beside the thermometer. Students can use the rapid heat switch to approach the expected value quickly, then turn the control knob down to a lower setting so that the temperature climbs slowly through the melting range. Looking through the lens, with the tube lit from behind, they note the temperature at which the first droplet appears and the point at which the sample is completely liquid. A pure compound melts sharply over a narrow range, while an impure one melts lower and over a wider range, which is why the test is a standard step after recrystallisation.

The rear background selector helps with samples that are hard to see: a dark background suits white crystals and a light background suits coloured ones. Ceramic insulation keeps the outer casing cooler than the block, but the heating area should still be treated as hot until it has cooled, and a cooling plug (available as an accessory) can speed up turnaround between students. Keep the block clean of spilled powder and store the unit in a dry place when not in use.

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