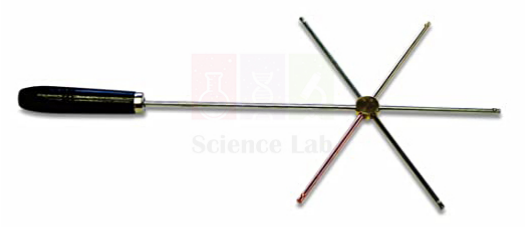
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Heat Conducto meter

Product Code :

SLE/H/11



Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Heat Conducto meter (Product Code: SLE/H/11) demonstrates the rate of heat conduction in 5 different metals — aluminium, brass, copper, nickel and steel. The rods are equally spaced on a brass disk mounted on an insulated handle, and each has a cavity in its outer end to holdparaffin, so the order in which the wax melts reveals which metal conducts heat fastest. Teachersuse it as a quick, visual comparison that needs no thermometers, and it comes from **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, a science apparatus manufacturer in Indiabased in Ambala.

Specifications

Parameter	Detail
Number of rods	5, each of a different metal
Metals	Aluminium, brass, copper, nickel and steel
Rod size	15 mm diameter, 95 mm long
Rod ends	Cavity in the outer end of each rod for holding paraffin
Mounting	Rods equally spaced on a brass disk
Handle	Insulated

Typical Use

Press a small amount of paraffin wax into the cavity at the outer end of each rod. Holding the unit by its insulated handle, heat the brass disk evenly over a burner flame so that all five rods receive heat from the same source at the same time. As heat travels outward, the paraffin melts first at the end of the best conductor, and the class notes the order in which the remaining cavities follow. Because the rods are equally spaced and of identical 15 mm by 95 mm size, the comparison is fair and the ranking can be read straight off the apparatus.

Students can then relate the order they observed to tables of thermal conductivity and discuss why copper is used in heat exchangers and cookware while steel is chosen where slower heat flow is useful. Timing each melt with a stop clock adds a simple quantitative element to this physics experiment for school labs. Let the disk cool completely before cleaning out old wax, and store the unit so the rods are not bent.

Manufacturer

Made under the ScienceLab name, the Heat Conducto meter is one of many heat apparatus items from Jain Scientific Equipments Private Limited in Ambala, Haryana. The company supplies teaching laboratories throughout India and in international markets; see the company profile for more about its work.

Related Laboratory Equipment

Items you need or may want with the conducto meter: