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Product Name :

Heat Conductometer

Product Code :

SLE/CH/68



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Description :

Heat Conductometer (Product Code: SLE/CH/68) is a classroom demonstration set for comparing how well different metals conduct heat. Five metal rods — aluminium, brass, iron, copper and stainless steel — are fitted radially on a brass disk, so heat applied at the centre travels out along all five at the same time and students can see which rod passes it on fastest. It comes with a Teacher's Guide and is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as a compact heat energy science kit for schools in India andinternational markets.

Specifications

Parameter	Detail
Purpose	Demonstrating and testing heat conductivity in a variety of metals
Metal rods	Five: aluminium, brass, iron, copper and stainless steel
Arrangement	Rods radially fitted on a brass disk
Rod size	75 mm length x 5 mm dia.
Brass disk	27 mm dia.
Included	Teacher's Guide

Typical Use

A common method is to fix a small, equal bead of wax to the outer tip of each rod, support the set so the rods are level, and heat the central brass disk gently with a burner or spirit lamp. As heat is conducted outwards, the wax beads soften and drop one after another; the order in which they fall ranks the five metals by conductivity. Because every rod has the same 75 mm length and 5 mm diameter, the comparison is fair and the only variable is the metal itself.

The set fits lessons introducing the properties of different elements as well as thermodynamics topics on conduction, and it works as a physics experiment kit for school classes as much as in chemistry. Students can extend the activity by reading the rod tips with an infra-red thermometer at fixed intervals. Let the disk and rods cool completely before handling them or removing wax.

Manufacturer

The Heat Conductometer is made by **Jain Scientific Equipments Private Limited**, known by its trading name ScienceLab, which designs and manufactures science demonstration apparatus in Ambala, Haryana. Our company profile has more about the company.

Related Laboratory Equipment

Useful additions for a lesson on heat conduction:

- Apparatus Heat/Thermal Conductivity — a further apparatus for conductivity experiments
- Heat Transfer Kit — extends the topic to other modes of heat transfer