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

Product Name :

Thermal Conductivity Bars

Product Code :

SLE/H/07



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Description :

Thermal Conductivity Bars (Product Code: SLE/H/07) test the conductivity of four metals at once: steel, brass, aluminium and copper strips are connected to a strip thermometer and mounted side by side on a plastic base. Dip the ends into a warm water bath and the strip thermometer shows which metal carries heat along its length fastest. Science teachers use it to make conduction visible to a whole class, and it forms part of the school physics lab equipment in India made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Metals	Steel, brass, aluminium and copper (4 strips)
Metal strip size	5-1/4" L x 3/8" W x 3/8" D
Temperature indication	Strips connected to a strip thermometer
Base	Plastic, 7" L
Included	Instructions

Typical Use

Prepare a shallow bath of warm water, hold the unit by its plastic base and dip the ends of all four strips in together so each metal starts under identical conditions. Watch the strip thermometer: the reading advances along the copper strip first, followed by aluminium, then brass, with steel lagging well behind. Because all four are tested at once, there is no need to repeat runs and compare them from memory, and the result is obvious even from the back of the room.

Follow-up questions work well here: why are cooking pans often made with copper or aluminium bases, why do steel spoon handles stay cooler, and how does conductivity relate to the metals' structure? Let the bars return to room temperature before a second run, dry them after use and keep the strip thermometer away from direct flames or very hot surfaces. The unit makes a compact, hands-on addition to any school physics lab equipment set for heat.

Manufacturer

ScienceLab, the trading name of Jain Scientific Equipments Private Limited, produces these conductivity bars in Ambala, Haryana, alongside a wide range of heat and energy apparatus for customers in India and international markets. Details about the company are on the profile page.

Related Laboratory Equipment

Useful with, or as follow-ons to, the conductivity bars:

- Glass Beaker — a simple container for the warm water bath.
- Water Bath — holds the bath at a steady temperature for repeat runs.
- Heat Conducto meter — a paraffin-based comparison across five metals.

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