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Product Name :

Conductivity Apparatus

Product Code :

SLE/H/19



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Description :

Conductivity Apparatus (Product Code: SLE/H/19) lets students compare how well six different metals conduct heat, side by side and under the same conditions. It carries six metal rods — one each of copper, iron, lead, aluminium, steel and zinc — fixed horizontally through holed rubber bungs in a sheet-metal body, so all six can be heated together and their behaviour compared at a glance. It is widely used as physics lab equipment for schools in India and abroad, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a science apparatus manufacturer in India.

Specifications

Parameter	Detail
Metal rods	Six: one each of copper, iron, lead, aluminium, steel and zinc
Rod mounting	Fixed horizontally through holed rubber bungs
Body	Sheet metal, with six holes on one side
Sizes listed	150 x 90 x 100 mm; 150 x 3 mm
Handle	Plastic handle and wooden handle both listed — version confirmed at quotation

Typical Use

One end of every rod sits in the sheet-metal body, so all six are heated from the same place at the same time. A common classroom method is to coat the exposed lengths of the rods with a thin film of wax before heating; as heat travels outward, the wax melts back along each rod, and after a few minutes students can see which metals have carried heat furthest. Copper and aluminium usually lead clearly, while lead and steel lag behind, giving an easy-to-read ranking that students can record in a table and explain in terms of thermal conductivity.

Having six metals in a single fixture makes this a stronger comparison than testing rods one at a time, because the heat input is shared. Keep the rods clean and free of old wax before a new run, use the handle to move the apparatus while it is warm, and let it cool before storing. Teachers building a school physics practical set for heat topics often keep it alongside a simpler strip-type conductivity demonstration for younger classes.

Manufacturer

This apparatus is made in Ambala, Haryana, by **Jain Scientific Equipments Private Limited**, whose products are sold under the **ScienceLab** brand to education and training institutions. Learn more in our company profile.

Related Laboratory Equipment

Supplies and alternatives for conduction experiments:

- Wax — for coating the rods so the spread of heat becomes visible
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-
-

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