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Product Name :

Apparatus Heat/Thermal Conductivity

Product Code :

SLE/PHY/12



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Description :

Apparatus Heat/Thermal Conductivity (Product Code: SLE/PHY/12) is a four-metal comparison ring used to show that different metals conduct heat at different rates in school science and physics labs. Four pointed strips of aluminium, brass, copper and iron meet at the centre of a wooden compound ring, and each carries a small water-holding indentation at its outer end, sothe class can watch which drop dries first. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Frame	Wood compound ring
Metal strips	4 pointed strips, each of a different metal: aluminium, brass, copper and iron
Strip layout	Attached at 90 degrees to each other around the ring, with their points meeting at the centre
Outer end of each strip	Indentation for holding water
Observation	The water evaporates at different times depending on the conductivity of each metal
Product code	SLE/PHY/12
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Thermal Conductivity Apparatus Used For?

The apparatus turns an abstract property into a race. Put an equal drop of water in the indentation at the end of each strip, then warm the centre of the ring where the four points meet, for example over a small spirit-lamp flame. Heat travels outward along each strip at a rate set by its metal, so the drops begin to steam and dry in a clear order. Copper, which conducts heat fastest of the four, usually finishes first and iron last, with aluminium and brass in between.

Because all four strips share one heat source, the comparison is fair without any extra measuring instruments, which makes it a simple heat energy science kit for middle and secondary classes. Let the ring cool before refilling the indentations, and keep the flame under the centre only so the wooden ring is not scorched. Older students can follow up with measured experiments on conduction in rods.

OEM Manufacturer

This thermal conductivity ring is an OEM product of Jain Scientific Equipments Private Limited, the company behind the ScienceLab name. It is produced at the company's licensed factory at Saha, Ambala, Haryana, India, and reaches schools, colleges, dealers and importers directly from
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