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Product Name :

Heat Absorption & Radiation Comparator

Product Code :

SLE/PHY/187



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Description :

Heat Absorption & Radiation Comparator (Product Code: SLE/PHY/187) is a thermal radiation demonstration used to compare how a black surface and a shiny metal surface absorb and give out heat in school physics lessons. A 12 V bulb serves as the heat source for two parabolic metal bodies, one finished black and one shiny, each fitted with a thermometer holder. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Heat source	12 V bulb
Test bodies	2 parabolic metal bodies — one black, one shiny metal
Temperature readings	2 thermometer holders attached to the bodies
Thermometers	Not included
Instructions	Included
Demonstrates	Heat absorption and radiation by black versus shiny surfaces
Product code	SLE/PHY/187
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Heat Radiation Comparator Used For?

With the bulb switched on, students record both thermometer readings at regular intervals and find that the black body warms up faster, because a dull black surface absorbs radiant heat better than a shiny one. After the bulb is switched off, the readings show the black body also cooling faster, since good absorbers are also good radiators. It is a compact radiation experiment kit for classes in India studying heat transfer.

The result explains everyday choices such as black-painted solar water heater panels and shiny insulating surfaces. For fair results, use two matching thermometers, start both bodies at room temperature, keep the set-up away from draughts, and power the bulb from a suitable 12 V supply rather than the mains.

What to Specify When Ordering

- Two thermometers, since they are not included — tell us if you want them quoted.
- A 12 V supply for the bulb, if your lab does not already have one.
- Number of comparators, for a teacher demonstration or several student groups.

OEM Manufacturer

Jain S
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