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Product Name :

Bar Compound Copper & Iron

Product Code :

SLE/PHY/20



Science Lab

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Description :

Bar Compound Copper & Iron (Product Code: SLE/PHY/20) is a bimetallic compound bar used to demonstrate the principle of the thermostat in school physics and general science labs. An iron strip and a copper-based strip are riveted together from end to end and mounted in a wooden handle, and when the bar is heated the unequal expansion of the two metals makes it bend. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Demonstrates	Principle of the thermostat
Construction	Bimetal strip: one strip of each metal, riveted together from end to end
Metals	Iron and a copper-based strip. The product name lists copper; our earlier catalogue description lists brass. Please confirm the metal pair in your enquiry.
Handle	Wooden handle
Behaviour on heating	The bar bends because the two metals expand unequally
Product code	SLE/PHY/20
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Compound Bar Used For?

As a piece of physics lab equipment for India's heat and expansion lessons, it takes only a flame to use. Hold the bar by its wooden handle and pass it slowly through the flame so both strips warm evenly. The copper-based strip expands more than the iron for the same rise in temperature, but the rivets stop the strips from sliding past each other, so the whole bar curls with the iron on the inside of the curve. As it cools, the bar straightens again, showing that the effect is reversible.

That bending movement is exactly what switches a thermostat: in an iron, a room heater or a fire alarm, a bimetal strip moves as it warms and opens or closes an electrical contact. Students can predict which way the bar will bend before heating, then check. Keep the heating gentle, rest the hot bar on a heat-proof mat afterwards, and never touch the metal until it has cooled.

What to Specify When Ordering

- Confirm the metal pair you need: the product name lists copper and iron, while the earlier catalogue text lists brass and iron.
- Number of compound bars, for example one per student group or one for teacher demonstration.
- Whether a heat source such as a Bunsen burner should be quoted with the bars

OEM

Scien nal

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