Science Lab

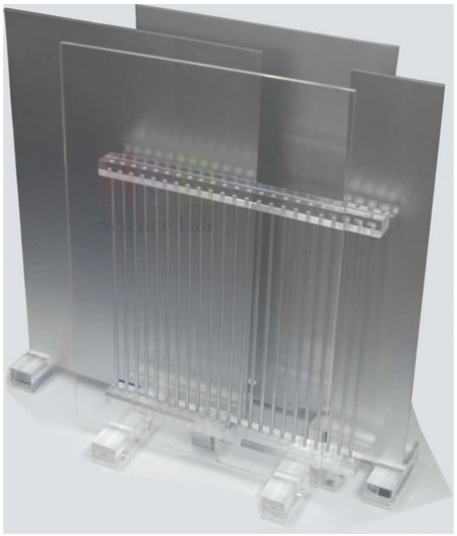
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Product Name :

Microwave Accessories Set of Plates

Product Code :

SLE/PHY/250



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Description :

Microwave Accessories Set of Plates (Product Code: SLE/PHY/250) is a set of five free-standing plates used to demonstrate the reflection, interference, partial transmission and polarisation of microwaves in school and college physics laboratories. It combines three aluminium plates, one perspex plate and a polarization grille, each on supporting feet so it stands upright in the beam. The set is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Narrow aluminium plate	1 plate, 60 x 280 mm (approx.)
Large aluminium plates	2 plates, 200 x 280 mm (approx.)
Perspex plate	1 plate, 200 x 280 mm (approx.)
Polarization grille	1 grille, 200 x 200 mm (approx.)
Mounting	All pieces on supporting feet
Product code	SLE/PHY/250
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Microwave Set of Plates Used For?

A large aluminium plate acts as a mirror for microwaves, so students can check that the angle of reflection equals the angle of incidence, or face it towards the transmitter and move the receiver between them to detect standing waves. Standing the two large aluminium plates either side of the narrow 60 mm plate creates a double slit, and moving the receiver across the far side reveals the interference pattern — a microwave version of the Young double slit experiment.

The perspex plate reflects part of the beam and transmits the rest, which is useful when discussing partial reflection. The polarization grille shows that the transmitter's output is polarised: the signal passes in one orientation and falls sharply when the grille is turned through a right angle. Stand each piece firmly on its feet, keep the aluminium faces clean and flat, and store the set so the grille cannot be bent.

What to Specify When Ordering

- The number of sets required for your laboratory.
- Whether a microwave transmitter/receiver and rotating protractor should be quoted with the plates.
- Whether the hollow lens or hollow prism accessories are also needed to complete the kit.

OEM Manufacturer

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