Email : sales@scilabexport.com
Phone: +91-7082934803

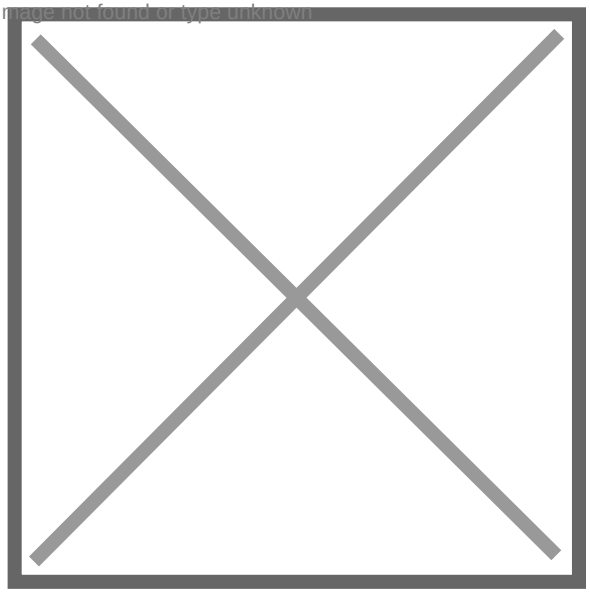
Product Name :

Capacitor Study Kit

Product Code :

SCL-495/026

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Description :

Capacitor Study Kit (Product Code: SCL-495/026) is a parallel-plate capacitor kit used to investigate how plate area, plate separation and the material between the plates affect capacitance, in school and college physics laboratories. It provides two pairs of 20 x 20 cm and two pairs of 28 x 28 cm Plexiglass plates, with 21 x 21 cm glass and polystyrene sheets to place between them. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM scientific instruments manufacturer in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Plates, smaller	Two pairs, Plexiglass, parallel sides 20 x 20 cm
Plates, larger	Two pairs, Plexiglass, parallel sides 28 x 28 cm
Glass sheet	21 x 21 cm
Polystyrene sheet	21 x 21 cm
Meter and lead	Listed as an LC meter with a wire/cable conductor having two 4 mm connecting heads, 50 cm (confirm meter details at quotation)
Mounting	Device clamp; holder for fixing capacitors
Product code	SCL-495/026
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Capacitor Study Kit Used For?

The capacitance of a parallel-plate capacitor grows with the area of the plates, falls as the plates are moved apart, and rises when an insulating material replaces the air between them. This kit lets students test each factor in turn: they compare the 20 x 20 cm and 28 x 28 cm plate pairs for area, vary the gap between the plates mounted in the holder, and slide the glass or polystyrene sheet between the plates.

Because the 21 x 21 cm sheets slightly overlap the smaller plates, they cover the whole plate area when inserted, which keeps the comparison fair. The results introduce the idea of the dielectric constant and explain why real capacitors use thin insulating layers between large conducting surfaces. In this electricity experiment kit for senior school and college, keep the plates and sheets clean and dry, since surface moisture affects readings.

What to Specify When Ordering

- The number of kits, typically one per practical group.
- The measuring ranges you need from the meter item, so it can be confirmed before dispatch — ask us.
- Whether spare glass or polystyrene sheets should be quoted as replacements.

OEM

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