Science Lab

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Product Name :

Electroscope, Flask Type

Product Code :

SLE/EM/18



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Description :

Electroscope, Flask Type (Product Code: SLE/EM/18) is a leaf electroscope built inside a 250mL Erlenmeyer flask, which protects the delicate leaves from draughts while keeping them fully visible. A plated rod topped with a knob of 16mm (2/3in) diameter passes through a rubber stopper, and a pair of aluminium leaves hangs from its lower end; when charge reaches the knob, the leaves take the same charge, repel each other and spread apart. Manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it is an inexpensive item of junior science lab equipment for introducing static electricity and charge detection.

Specifications

Parameter	Detail
Enclosure	Erlenmeyer flask, 250mL
Leaves	A pair of aluminium leaves suspended from the rod
Rod and knob	Plated rod with a knob of 16mm (2/3in) diameter
Seal	Rod passes through a rubber stopper

Typical Use

Students rub a friction rod with a cloth or fur, touch it to the knob and watch the leaves diverge — the basic proof that the rod has become charged. Bringing a charged rod near the knob without touching shows charging by induction, and touching the knob with a finger earths the electroscope so the leaves collapse. Once the electroscope holds a known charge, an unknown charged object brought close will make the leaves open wider (same sign) or close (opposite sign), so the class can identify the type of charge. Touching the knob with different materials also separates conductors, which discharge it at once, from insulators, which do not.

Static experiments work best on dry days; in humid weather charge leaks away and the leaves fall quickly, so warm and dry the flask and rods before the lesson. Keep the flask upright and move it gently, as the aluminium leaves are thin and easily creased. From a science apparatus manufacturer in India, it gives each bench group its own charge detector at modest cost.

Manufacturer

Jain Scientific Equipments Private Limited produces this electroscope in Ambala, Haryana, where it operates under the ScienceLab trading name as a maker of physics and general science apparatus for schools and colleges. Our company profile has more information.

Related Electricity Equipment

Friction rods for charging, and other electroscope designs:

- Friction Rod, Brass/Ebonite — a friction rod for producing charge in static electricity experiments
- Friction Rod, Perspex — a Perspex rod for comparing the charge produced by a different
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