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Product Name :

Induction Coil, 50mm Spark

Product Code :

SLE/PHY/193



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Description :

Induction Coil, 50mm Spark (Product Code: SLE/PHY/193) is a traditional induction coil used to turn a low DC input into a high voltage that produces a 50 mm spark, for physics and chemistry demonstrations in colleges and schools. It runs from a 6-12 V DC input through two baseboard-mounted 4 mm sockets and is suited to powering vacuum tubes and eudiometers. It is suppliedby **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Spark length	50 mm
Input	6-12 V DC
Input connection	Pair of baseboard-mounted 4 mm sockets
Interrupter	Fully adjustable vibrator system
Suppression	Spark suppression capacitors in the base
Electrodes	Pair of pointer electrodes supplied; pointer electrode has an insulating handle for spark gap adjustment
Typical uses	Vacuum tubes, eudiometers and similar apparatus
Product code	SLE/PHY/193
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Induction Coil Used For?

The vibrator repeatedly makes and breaks the DC current in the coil's primary winding. Each sudden change in the magnetic field induces a much higher voltage in the secondary winding, and that voltage jumps the gap between the pointer electrodes as a visible spark. The coil is a striking way to show electromagnetic induction and transformer action, and it complements a classroom electromagnetic induction kit.

In chemistry the spark is used to ignite gas mixtures in a eudiometer, and in physics the high voltage drives discharge through vacuum tubes. Use only a 6-12 V DC supply, adjust the vibrator for a steady action, keep hands well away from the electrodes while the coil is live, and set the spark gap with the insulated handle after switching off.

What to Specify When Ordering

- Whether a 6-12 V DC supply should be quoted with the coil.
- The vacuum tubes or eudiometer you plan to use, so we can advise on the set-up.
- Number of coils, usually one per demonstration bench.

Supplier

Scien
induc
depa

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