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Product Name :

Electrodes, Copper

Product Code :

SLE/EM/05



Description :

Electrodes, Copper (Product Code: SLE/EM/05) are flat copper strips for electrochemistry and electricity practicals such as electroplating, copper electrolysis, simple voltaic cells and conductivity tests. Each strip measures 3/4 x 5-1/2 inches and is stamped with the chemical formula for copper (Cu), so it stays identifiable when several metals share a bench tray. The electrodes come in a pack of 12 and are supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as a practical refill from a chemistry consumables supplier in India that also equips complete school and college laboratories.

Specifications

Parameter	Detail
Material	Copper
Strip size	3/4 x 5-1/2 inches (each electrode)
Marking	Each electrode stamped with the formula for copper
Pack quantity	12 electrodes
Formula weight of copper (reference)	63.55 (approx.)

Typical Use

In electrolysis of copper sulfate solution, a pair of these strips shows copper dissolving from the anode and depositing on the cathode; weighing the cathode before and after the run lets older students connect the mass of copper deposited with the charge passed, as in Faraday's first law. Paired with a zinc strip in an electrolyte, a copper electrode forms the positive terminal of a simple voltaic cell, so the same pack serves an electrochemical cell kit school groups can assemble themselves. The strips are equally useful as dip electrodes in lamp-based conductivity tests.

Copper tarnishes in air, so rub each strip bright with fine abrasive paper before a quantitative run, rinse with distilled water and hold it by the edges to keep fingerprints off the working area. Dry the electrodes after use and store them flat. Because anodes are gradually consumed during electrolysis, many labs keep a spare pack beside their copper voltameter or other electrolysis apparatus.

Supplier

This pack is supplied by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana, and stocks electrode strips and other consumables alongside the teaching apparatus it manufactures. See our company profile for an overview of the business.

Related Electricity Equipment

Apparatus and materials used with copper electrodes in the same practicals:

- Voltameter, Copper — a three-plate copper voltameter for Faraday's-law electrolysis
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