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Product Name :

Hoffman Electrolysis Apparatus

Product Code :

SLE/EM/16



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Description :

Hoffman Electrolysis Apparatus (Product Code: SLE/EM/16) is the three-limbed glass apparatus used to electrolyse water and other solutions while collecting the gas released at each electrode in its own side tube, so the volumes can be compared and the gases drawn off for testing. The glassware is borosilicate 3.3 grade and clearly labelled, and the set comes with two electrode options — 2 platinum electrodes and 2 carbon electrodes, each mounted in rubber stoppers — plus PTFE stopcocks. Manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it is a standard piece of electrolysis apparatus in India's school and college chemistry laboratories.

Specifications

Parameter	Detail
Glass	Borosilicate 3.3 grade glassware, clearly labelled
Platinum electrodes	2 included, in rubber stoppers
Carbon electrodes	2 included, in rubber stoppers
Stopcocks	PTFE
Supplied items	Hoffman electrolysis apparatus; platinum electrodes in rubber stoppers; carbon electrodes in rubber stoppers; PTFE stopcocks
Not included	Ring stand and clamp (a metal ware set is recommended)

Typical Use

For the electrolysis of water, the apparatus is clamped upright, the PTFE stopcocks are opened and acidified water or another suitable electrolyte is poured into the central reservoir until both side tubes are full; the stopcocks are then closed and a DC supply is connected to the electrodes. Gas collects at the top of each side tube, with roughly twice as much hydrogen at the cathode as oxygen at the anode, and each gas can be released through its stopcock for the lighted-splint and glowing-splint tests. Platinum electrodes stay inert in most electrolytes, while the carbon electrodes are a practical choice for chloride solutions such as brine, where students can compare the products at each electrode.

After each practical, drain the electrolyte, rinse the apparatus and electrodes with distilled water and leave the stopcocks open to dry. Handle the platinum electrodes gently. The borosilicate construction is the same type used in borosilicate glassware across India's laboratories, so the apparatus copes with routine rinsing and the temperature changes of normal use.

Manufacturer

ScienceLab is the brand of Jain Scientific Equipments Private Limited, a laboratory equipment manufacturer located in Ambala, Haryana. For supplier onboarding and tender paperwork, the company can be identified by GSTIN 06AAECJ8618A1ZT and LEI 3358004HRD1JIVXKYX49. Further details are on our company profile.

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Items

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