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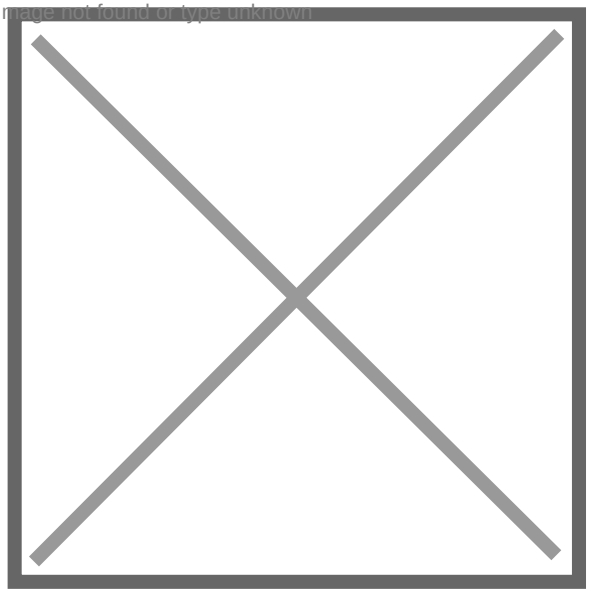
Product Name :

Deniel Cell

Product Code :

SCL378/088

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Description :

Deniel Cell (Product Code: SCL378/088) is a Daniell-type primary cell used to provide a steady chemical source of EMF in school and college physics practicals. It combines a heavy-gauge copper outer vessel, a porous pot and an amalgamated zinc rod, and gives an EMF of 1.1 V with a working capacity of about 0.85 L. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, for school physics lab equipment in India.

Specifications

Parameter	Detail
Cell type	Daniell cell (primary cell)
Outer vessel	Heavy-gauge copper, 130 x 90 mm (height x diameter)
Internal shelf	Perforated, for copper sulphate crystals
Porous pot	150 x 50 mm (height x diameter)
Zinc rod	Amalgamated, 150 x 12 mm (height x diameter), fitted with a wooden supporting cap
Terminals	4 mm socket terminals on the zinc rod and the copper vessel
EMF	1.1 V
Working capacity	About 0.85 L
Product code	SCL378/088
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is a Daniell Cell Used For?

In this cell the copper vessel acts as the positive electrode in copper sulphate solution, while the zinc rod stands in the porous pot as the negative electrode; the pot keeps the two solutions apart but lets ions pass. Crystals resting on the perforated shelf keep the copper sulphate solution saturated as the cell works, which is why a Daniell cell holds a steady EMF.

Teachers use it as a reference cell on the potentiometer, for comparing its EMF with a Leclanche cell, and for demonstrating how chemical energy becomes electrical energy. After each session, lift the zinc rod out on its wooden cap, rinse the porous pot, and empty and dry the copper vessel so the parts last longer.

What to Specify When Ordering

- The number of cells needed for your practical groups.
- Whether copper sulphate crystals or other electrolyte chemicals should be quoted with the cells.

OEM

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