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Product Name :

Daniel Cell Kit

Product Code :

SCL-531/015

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Description :

Daniel Cell Kit (Product Code: SCL-531/015) is an electrochemical cell kit of an outer copper vessel, a porous pot and a zinc rod, used to build a Daniell cell and show how a redox reaction drives a steady current in school chemistry and physics labs. Teachers use it for demonstrations and student practicals on cell EMF, and the copper vessel has a perforated shelf and terminal. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Kit contents	Outer copper vessel, porous pot and zinc rod
Outer copper vessel	125 x 75 mm, with perforated shelf and terminal
Porous pot	150 x 50 mm
Zinc rod	125 x 12 mm, with support and terminal
Product code	SCL-531/015
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Daniel Cell Kit Used For?

The copper vessel acts as both the container for copper sulphate solution and the positive electrode, while the porous pot stands inside it and holds zinc sulphate solution around the zinc rod, which is held in place by its support. The porous wall lets ions pass between the two solutions but slows their mixing, so the cell keeps working steadily instead of fading quickly as a simple zinc–copper cell does. Copper sulphate crystals on the perforated shelf dissolve as the solution is used up, keeping it saturated during a longer practical.

Once assembled, the two terminals are wired to a voltmeter so students can record the cell EMF and relate it to the reactions at each electrode, a natural follow-on to work with copper sulphate crystals in school chemistry. Afterwards, empty both solutions, rinse the vessel and rod, soak the porous pot in clean water so salts do not crystallise in its pores, and let every part dry; handle the pot with care, since a cracked pot lets the solutions mix.

OEM Manufacturer

ScienceLab is the trading name of **Jain Scientific Equipments Private Limited**, the OEM (original equipment manufacturer) of the Daniel Cell Kit. The kit is made at the company's own licensed factory at Saha, Ambala, Haryana, India, and supplied factory-direct to schools, colleges, dealers and importers rather than through a trader.

If a porous pot or zinc rod needs replacing after heavy use, ask us — spares and repeat orders are handled.

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