Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Conductive Putty

Product Code :

SLE/PHY/38



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Phone: +91-7082934803

Description :

Conductive Putty (Product Code: SLE/PHY/38) is a mouldable conducting material used toteach resistivity and how the length and cross-sectional area of a conductor affect its resistance,in school and college physics labs. It comes as roughly 100 g of putty formed into a 60 mm long,20 mm diameter cylinder of approximately 20 ? that can be re-moulded to new shapes. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as a hands-on addition to an Ohm's law experiment kit.

Specifications

Parameter	Detail
Quantity	Approx. 100 g
Form supplied	Cylinder, 60 mm long and 20 mm in diameter
Resistance of cylinder	Approximately 20 ?
Connection	Can readily be connected into an electrical circuit
Adjustability	Length and diameter changed by re-moulding the putty
Teaching use	Resistivity; effect of length and cross-sectional area on resistance
Product code	SLE/PHY/38
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is Conductive Putty Used For?

Conductive putty turns the resistivity equation into something students can shape with their hands. Starting from the supplied cylinder, they measure its resistance, then roll it longer and thinner and measure again, or keep the length fixed and change the diameter. Plotting resistance against length, and against the inverse of cross-sectional area, shows the two relationships clearly and lets them estimate the material's resistivity.

For consistent readings, press the connecting probes or plates into the ends of the putty to the same depth each time, measure length and diameter carefully after every re-moulding, and keep the current small so the putty does not warm up. Work on a clean surface so dust and fibres are not folded into the material, and store it covered between lessons.

Manufacturer

Conductive Putty is manufactured by Jain Scientific Equipments Private Limited, which trades as ScienceLab, from Ambala, Haryana, India. The company manufactures it for schools, colleges, dealers and importers and can include it in the same quotation as meters, leads and other resistance apparatus.

For details of pack quantities or combined orders, ask us, and see our company profile for more about ScienceLab.

Rela

Tools

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