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

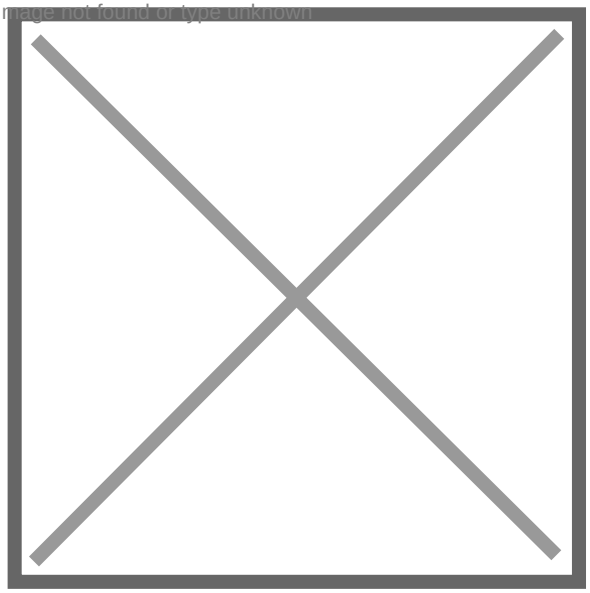
Product Name :

Constantan Wire

Product Code :

SCL-476/133

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Description :

Constantan Wire (Product Code: SCL-476/133) is a copper–nickel resistance wire used to setup known, stable resistances in school and college electricity practicals. Physics departmentschoose it for meter bridge, potentiometer and resistivity work because its alloy of 55% copper and45% nickel keeps its resistivity almost unchanged across a wide range of temperatures. It issupplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instrumentssupplier in India, in 100 g units.

Specifications

Parameter	Detail
Quantity	100 g of wire
Alloy composition	55% copper, 45% nickel
Key property	Resistivity stays nearly constant over a wide range oftemperatures
Typical applications	Science and electronics work, including laboratory resistance experiments
Product code	SCL-476/133
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is Constantan Wire Used For?

In the physics lab, lengths of constantan wire are stretched along a meter bridge or potentiometer, or cut to form the unknown resistance in the specific-resistance experiment. Students measure the length with a metre scale and the diameter with a screw gauge, find the resistance, and then calculate resistivity. Because the resistivity barely changes as the wire warms under current, readings stay consistent through a practical session.

Constantan is also paired with copper to make simple thermocouple junctions for heat and thermoelectricity demonstrations. Cut pieces with a proper wire cutter, clean the ends with fine sand paper before clamping them in terminals, and avoid kinks, which change the local cross-section and spoil resistance readings.

Supplier

Jain Scientific Equipments Private Limited, known to schools and colleges by its trading name ScienceLab, sources Constantan Wire as part of its work as a physics instruments supplier in India. Wire orders can be combined with meters, bridges and other electricity apparatus in one consignment for institutions, dealers and importers in India and international markets. See our company profile for background on the company.

Related Laboratory Equipment

Constantan wire is normally used with these items in resistance and resistivity practicals: