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Product Name :

Heat Specimen Set

Product Code :

SLE/H/03



Description :

Heat Specimen Set (Product Code: SLE/H/03) is a set of five hooked metal cylinders — aluminium, copper, stainless steel, tin and zinc — precision machined to equal mass so that students can compare how much heat different metals store and release. Because the mass isthe same for every cylinder, any difference in results comes down to the metal itself, which makes specific heat capacity easy to see and measure. Physics teachers use the set for calorimeter experiments and wax-melting demonstrations, and it is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Number of specimens	Five cylinders
Metals	Aluminium, copper, stainless steel, tin andzinc
Diameter	1/2"
Mass	Precision machined to equal mass
Form	Hooked cylinders
Identification	Metal identification stamped on one end

Typical Use

Hang the cylinders by their hooks on thread and lower them into boiling water until they reach the same temperature. In the classic demonstration, all five are lifted out together and stood on a slab of paraffin wax: the metal holding the most heat per unit mass melts deepest, so the class sees specific heat capacity as a row of different depths. For a quantitative calorimeter experiment, transfer one hot cylinder into a calorimeter holding a known mass of water, record the temperature rise and calculate the metal’s specific heat capacity by the method of mixtures.

Since every cylinder has equal mass, groups can each take a different metal and pool their results into one comparison table. The stamped end prevents mix-ups once the cylinders are hot or lying together in a tray. Handle hot specimens with tongs, dry them after use and store them together so the set stays complete — a small but valuable part of physics lab equipment in India’s senior secondary schools and colleges.

Manufacturer

Jain Scientific Equipments Private Limited produces this set under its ScienceLab brand in Ambala, Haryana, where the company makes heat, mechanics and optics apparatus for schools and colleges in India and international markets. See our company profile for more.

Related Laboratory Equipment

Items used with the specimen set in specific heat experiments: