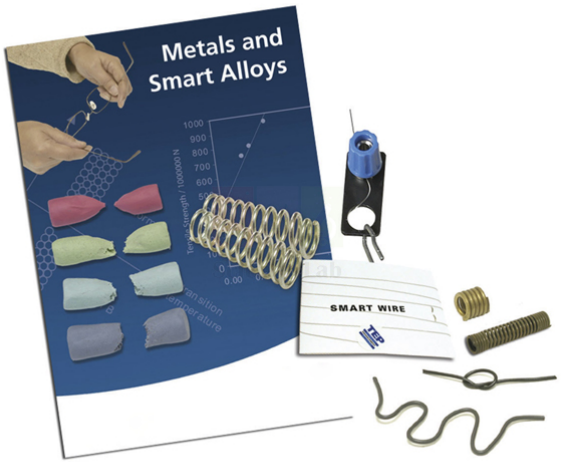
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Product Name :

Metals and Smart Alloys Starter Pack

Product Code :

SLE/CH/149



Description :

Metals and Smart Alloys Starter Pack (Product Code: SLE/CH/149) is school chemistry lab equipment in India that brings together a variety of smart alloys — a two-way memory spring, a smart spring, smart wire, memory wire and superelastic wire — with wire holders for securing the materials during experiments. It gives students hands-on contact with metals that recover a remembered shape when warmed or spring back from bending that would permanently deforman ordinary wire, topics that many GCSE courses refer to under smart alloys and shape memory alloys. The practical activities are described in the accompanying booklet ‘Metals and smart alloys’. It makes a compact STEM science kit for India’s secondary classrooms and is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Smart alloy items	Two-way memory spring, smart spring, smart wire, memory wire, superelastic wire
Accessories	Wire holders for securing the materials
Activity guide	Accompanying booklet ‘Metals and smart alloys’
Curriculum link	Smart alloys and shape memory alloys, referred to in many GCSE courses

Typical Use

A typical first demonstration is the shape memory effect: bend a length of memory wire into a new shape at room temperature, then lower it into warm water and watch it return to its original form. The two-way memory spring goes a step further, changing shape as it is warmed and changing back as it cools, which shows students that the alloy “remembers” two states. The superelastic wire makes a striking contrast — it can be bent sharply and springs straight again without any heating at all. The wire holders keep each sample in place so students can observe and compare them safely.

Placing an ordinary metal wire alongside the smart alloys helps students see the difference between permanent deformation and shape recovery, and leads naturally into discussion of real applications such as spectacle frames, dental braces and small actuators. Use warm water rather than a naked flame to trigger shape changes, and handle hot beakers with tongs. The pack is also a strong starting point for a science fair project kit in India, where students can investigate the temperatures at which each item changes shape.

Supplier

ScienceLab — the trading name of Jain Scientific Equipments Private Limited, based in Ambala, Haryana — supplies this starter pack as part of its chemistry and materials-science teaching range. The company can quote the pack together with the beakers, thermometers and tongs used in the activities, for schools and colleges in India and international markets. Our company profil

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