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

Product Name :

Magnetic Compass Needle

Product Code :

SCL1465/023



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Description :

Magnetic Compass Needle (Product Code: SCL1465/023) is a large demonstration needle, 100 mm long, that turns freely on a conical bearing mounted on a centre-axis support. Its north and south poles are painted blue and red respectively, so the whole class can see which way the needle settles. Teachers use it to show the Earth's magnetic field, the attraction and repulsion of poles and the magnetic effect of an electric current. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a laboratory instruments supplier in India, and fits well into a magnetism experiment kit for Indian schools.

Specifications

Parameter	Detail
Needle length (longitudinal dimension)	100 mm
Mounting	Support for the centre axis, with a conical bearingand pivot needle
Pole marking	N pole painted blue, S pole painted red

Typical Use

Set on the teacher's bench away from steel objects, the needle swings and comes to rest along the north–south line, opening a lesson on the Earth as a magnet. Bringing one end of a bar magnet close to each painted pole shows that like poles repel and unlike poles attract, and because the needle is long, the movement is easy to follow from the back of the room.

The same needle is ideal for repeating Oersted's observation: lay a straight wire over it along the north–south direction, switch on a current, and the needle turns across the wire; reversing the current reverses the deflection. It can also be moved around a magnet or an electromagnet to show how the field direction changes from point to point. Keep it away from strong magnets during storage, as prolonged contact can weaken or even reverse its magnetisation.

Manufacturer

Jain Scientific Equipments Private Limited manufactures this needle and the rest of the ScienceLab range from its base in Ambala, Haryana, serving laboratories in schools, colleges and vocational institutes. Background on the company is available on the profile page.

Related Lab Equipment

The following items are commonly used with a demonstration compass needle:

- Bar Magnet (Plastic) — for showing attraction and repulsion between poles.
- Steel Horseshoe Magnet — lets students probe the field between two close poles.
- Oersted's Law Apparatus — a dedicated set-up for the magnetic effect of current.
- Compass — a small cased compass for individual student use.
- Magnetic Needle, Brass — an alternative needle design for additional stations.

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