

Narika product name:

## Electromagnet Experiment Set

Product Description:

Three sets of solenoidal coils and core materials for electromagnet experiment

Catalog Number:

S75-5606-W1



### *Overall advantages to users:*

- Easy to observe and understand how electromagnet behaves differently depending on the wire turns (100 turns vs. 200 turns) and/or the material of magnetic cores (ferromagnetic material vs. non-ferromagnetic material).

### *Benefits to users:*

- **To all users:**

- Easy to understand that more wire turns the coil has, the more powerful the coil becomes.
- Easy to understand that ferromagnetic material like iron serves to increase the magnetic field created.
- Easy to change the type of magnetic core because the solenoidal coil is a cylindrical and has a hole inside.

- **To teachers:**

- Preparation for electromagnet experiment became very easy because of the ready-made wire turns.
- Number of the wire turns is exactly 100 or 200, so students' experiment can be done on equal condition.

- **To students:**

- Easy to connect with and disconnect from a power source or cables of a circuit because of the small two terminals at one end of the coil.
- Unlikely to drop magnetic core from the coil during the experiment because of O-rings comes with the products.

### *Keywords:*

- Electromagnet
- Electromagnetism
- Magnetic flux

### *Specifications*

- Solenoidal coils (100 wire turns x3pcs, 200 wire turns x3pcs)
- Core materials (4 types: Iron x6pcs, Copper x3pcs, Aluminum x3pcs, Glass x3pcs)
- O-ring (x15pcs)