

(PREVIEW)

*Indian Standard*

# MEASURING METHODS FOR CYLINDER CORES, TUBE CORES AND SCREW CORES OF MAGNETIC OXIDES

## **I. Scope**

This standard describes methods of measuring the magnetic properties of cylinder, tube and screw cores in terms of the inductance  $L$  and quality factor  $Q$  of a specified coil containing the test core in a specified position relative to it.

For test purposes, cores are normally assessed by means of comparative measurements against a standard core.

This standard covers cores up to 45 mm in length and up to 8.5 mm in diameter at frequencies up to 100 MHz. The dimensional characteristics of such cores are the subject of IEC Publication 220: Dimensions of Tubes, Pins and Rods of Ferromagnetic Oxides, and IEC Publication 221: Dimensions of Screw Cores made of Ferromagnetic Oxides.

The determination of the magnetic properties of ferrite rod serials forms the subject of IEC Publication 492: Measuring Methods for Aerial Rods.