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**Product Name :**

Computerized Thermal Conductivity of Powder

**Product Code :**

SLE/MCE/72



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## Description :

**Computerized Thermal Conductivity of Powder** (Product Code: SLE/MCE/72) is a concentric-sphere apparatus used to determine the thermal conductivity of an insulating powder in heat transfer laboratories. As lab equipment for technical institutes, it lets mechanical and chemical engineering students measure radial heat flow between a 50 mm and a 100 mm radius copper sphere using ten embedded thermocouples. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

### Specifications

| Parameter | Detail |
|---|---|
| Construction | Two thin-wall concentric copper spheres with insulatingpowder packed between the shells |
| Radius of inner coppersphere | 50 mm |
| Radius of outer coppersphere | 100 mm |
| Heater | Mica type: nichrome wire wound on mica sheet, housed in the inner sphere |
| Heating power | 350 W |
| Temperature limitation | 95 °C |
| Thermocouples | 4 embedded on the inner sphere and 6 on the outer sphere (10 in total) |
| Heater supply and measurement | Supplied through a dimmer stat; measured by voltmeter and ammeter |
| Test medium | Commercially available insulating powder packed between the two spheres (confirm the powder type with your quotation) |
| Measuring range – temperature | 2 × 0–325 °C |
| Measuring range – heating power | 0–450 W |
| Power supply options | 230 V, 50 Hz, 1 phase; 230 V, 60 Hz, 1 phase; or 120 V, 60 Hz, 1 phase |
| Product code | SLE/MCE/72 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM |
| Country of origin | India (made in Ambala, Haryana) |

### What Is the Thermal Conductivity of Powder Apparatus Used For?

Heat produced by the coil inside the inner sphere can only escape outwards through the powder layer, so once temperatures are steady the electrical input (from the voltmeter and ammeter readi er surfa e the powd

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