

Product Name :
Thermal Conductivity Of Insulating Powder**Product Code :**
ALABS-A104-363**Description :****Thermal Conductivity Of Insulating Powder**

- This apparatus is designed to determine the thermal conductivity of insulating powder. The apparatus consists of two thin walled concentric copper spheres. Inner sphere houses Nichrome Wire heater
- Insulating powder is filled between the two spheres
- Heat flows radially outwards. Temperature sensors at proper positions are fitted to measure surface temperatures of spheres
- Heat input to the heater is given through a variac and measured by Digital Voltmeter & Digital Ammeter. By varying the heat input rates, data can be obtained

Experiment:

- Determination of thermal conductivity of insulating powder
- Comparison of thermal Conductivity of insulating powder at different temperatures

Utilities Required:

- Electricity Supply: 1Phase, 220 V AC, 2 Amp.
- Table for set-up support

Technical Specifications:

- Inner Sphere: Dia: 100 mm
- Outer Sphere: Dia: 200 mm
- Heater: Nichrome Wire
- Digital Voltmeter: 0-300 Volt
- Digital Ammeter: 0-2 Amp
- Variac: 0-230 V, 2 Amp
- Digital Temp. Indicator: 0-1990 C, with multi-channel switch
- Temperature Sensors: RTD PT-100 type
- Instruction Manual: An ENGLISH instruction manual will be provided along with the Apparatus
- The whole set-up is mounted on a power coated base plate



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