

Product Name :
Thermal Conductivity Of Insulating Powder**Product Code :**
ALABS-A143-034**Description :**

Thermal Conductivity Of Insulating Powder

Technical Specification :

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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