

# Thermal Conductivity Of Insulating Slab



**Product Categories:** [Engineering Equipment](#), [Heat Transfer Lab](#)

**Product Page:** <https://www.labappara.com/product/thermal-conductivity-insulating-slab/>

## Product Description

### Thermal Conductivity Of Insulating Slab

The set-up is designed to determine thermal conductivity of insulating materials in the form of slab. The apparatus consists of main central heater and ring guard heater, sandwiched between the specimens. Cooling plates are provided on either side of the specimen. Two identical specimens are clamped between heaters that ensure unidirectional heat flow through specimen. The whole assembly is kept in chamber and insulated by ceramic wool insulation around the set-up.

### Technical Specifications:

#### Specimen

Diameter : 180 mm (approx).

Thickness : 12 mm (approx).

Central Heater : Dia 100 mm, sandwiched between copper plates.

Ring Guard Heater : Width 35 mm, sandwiched between copper rings.

Cooling chamber : Made of Aluminum for water circulation. 2 Nos.

Insulation : Ceramic wool

Cabinet to accommodate the slab assembly.

The whole set-up is ingeniously designed and schematically arranged on a powder-coated rigid structure.

#### Control Panel:

Digital Voltmeter : 0-300 Volt.

Digital Ammeter : 0-2 Amp

Variac : 0-230 V, 2 Amp, (2 Nos.) One each for central ring guard heater.

Digital Temp. Indicator : 0-199.90C, with multi-channel switch