

Received requisition on:

Sr.No.

Status: Completed/Delayed/ Cancelled

Metallurgical Engineering and Materials Science (MEMS) IIT Bombay
Requisition form for LFA 467HT (room temperature to 1200°C)

Instructions for External Users

- 1) Please note the designated sample dimensions provided for different types of bulk materials.
- 2). Please provide information of the sample densities
- 3) In order to safeguard the instrument from damage **it is absolutely essential** that the material does not decompose or soften in the measured temperature range.

Name of the User:

Tax Invoice to be issued to:

Name of the In-charge/Head:

Name of the Organization and Department:

GSTN (If available)

Email:

Mobile:

Sample Material *:

Sample Dimension:

Temperature Range:

Number of Samples:

Your requirement: Diffusivity ☐ (density:) C_p ☐

Declaration:

I hereby declare, that to the best of my knowledge, the material/s does-not undergo any degradation/softening in the requested temperature range of measurement. This information is based on literature reports/other measurements. It is mandatory for the user to acknowledge CSIF- IoE funded Laser Flash Analyser facility at Dept. of Metallurgical Engineering and Materials Science, IIT Bombay, in their publications and thesis and communicate the same to the laboratory.

Sample Dimension

	Sample Type	Sample Dimensions (mm)
1	Bulk (Ceramic)	Diameter(ϕ):10 or 12.7
2	Bulk (Semiconductor)	Diameter(ϕ):10 or 12.7
3	Bulk (Metal)	Diameter(ϕ):10, Square: 10x10
4	Bulk (Polymer)	Square: 10x10
5	Thin Film	Square: 10x10

[#]**thickness:** for bulk samples: 1mm-2mm, thin films: limited by the thermal diffusivity

^{##}Standard sample for C_p measurement to be decided by temperature range and absolute values.

Thermal Conductivity Usage Charges

Charges are per slot (Excluding GST)

Temperature Range	IITB Internal Users (INR)	Universities (INR)	National Labs/R&D Institutes (INR)	Industry (INR)
Room Temperature	400	800	2000	4000
RT-500°C (Standard)*	600	1000	3000	6000
RT-1000°C (Standard)*	1000	2000	5000	10000

Usage Charges:

Temperature Range	No of samples	Total
Room Temperature		
RT-500°C (Standard)*		
RT-1000°C (Standard)*		

*Additional charges for more temperature points, temperature steps can be user defined.

1. **Charges are per slot.** Each slot can have upto **3 (max)** samples for thermal conductivity and **4 (max)** samples for thermal diffusivity measurements.
2. **RT-500°C (standard):** Six temperature points (RT, 100°C, 200°C, 300°C, 400°C, 500°C)
3. **RT-1000°C (standard):** Eleven temperature points (RT to 1000°C in intervals of 100°)
4. Additional temperature step: INR 100 (per point)

To IRCC, Transfer..... (Rs.) from _____ To Project code:
RD/0424-IRIOE90-060 GL : 835180

Student's Name and Signature

Supervisor's Name and Signature

Prof. Titas Dasgupta (Facility In-Charge)

Head of the dept Signature
(For non-dept users)