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

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:

Designation/Roll No.: E-mail address:

Department: Intercom No:

Name of Guide:

Nature of Project*: B.Tech / Dual Degree / M.Tech /Ph.D./Consultancy /Sponsored Project (Consultancy/ Sponsored Project):

Material details*:*

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

Temperature Range	IITB Internal Users (INR)	No of samples	Total
Room Temperature	400		
RT-500^{0}C (Standard)*	600		
RT-1000^{0}C (Standard)*	1000		
Total :			

*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^{0}C (standard):** Six temperature points (RT, 100^{0}C, 200^{0}C, 300^{0}C, 400^{0}C, 500^{0}C)
3. **RT-1000^{0}C (standard):** Eleven temperature points (RT to 1000^{0}C in intervals of 100^0)
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)**