

Received requisition On (Date):
Status: Completed/Delayed/Cancelled

Date:-
Sr. No_____.

Metallurgical Engineering and Material's Science (MEMS) IIT Bombay
Requisition form for LFA 467HT (room temperature to 1000°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:

Name of the Organization & Department:

Mobile No:

Intercom No:

Name of Guide:

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

Sample 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 Analyzer 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):1 0, 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/Diffusivity Usage Charges

Charges are per Slot:-

No.	Category	Charge ratio.	GST @ 18%	Room Temperature	RT-500°	RT-1000 °
1.	IITB (TAs)	X/2	No GST	400	500	1000
2.	IITB Students	X	No GST	800	1000	2000
3.	IITB-Monash Students	X	+ GST	800	1000	2000
4.	Academic Institutes	2X	+ GST	1600	2000	4000
5.	National Labs	5X	+ GST	4000	5000	10000
6.	Sine (letter from SINE reqd.)	5X	+ GST	4000	5000	10000
7.	Research Park (MSME) (letter from RP reqd.)	5X	+ GST	4000	5000	10000
8.	Research Park (Big Industry partners) (letter from RP reqd.) and MSME not associated with RP (appropriate certificate required)	7.5X	+ GST	6000	7500	15000
9.	Industries	10X	+ GST	8000	10000	20000

Usage Charges:

Mention Category No. and Name from above:

Category No: - Category Name:-

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

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

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

5. Bring a CD/DVD for data collection. Ensure you back up your data every time. The data is deleted routinely from the (Our) hard disk. (No USB transfer is allowed)

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

Student's Name and Signature

Your Supervisor Name and Signature

Prof. Titas Dasgupta (Facility In-Charge)

Head of the Dept. Signature

Dept. of Met. Engg.and Materials Science, IIT Bombay

(For non-dept. users)