

RHEOMETER

Photo of Instrument:



Instrument Name	RHEOMETER									
Instrument Model & Serial No.	MCR102	81872459								
	H-P-PTD200	82674335								
	MRD170/T	82633240								
Instrument Make	ANTON PAAR									
Category of Instrument	Characterization and Testing									
Description of Instrument	This instrument is used to measure the way in which a viscous fluid flows in response to applied forces.									
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	<table border="1"> <tr> <td>Min Torque Rotation</td> <td>5nNm</td> </tr> <tr> <td>Max Torque</td> <td>200nNm</td> </tr> <tr> <td>Max Speed</td> <td>314rad/s</td> </tr> <tr> <td>Normal Force Range</td> <td>0.01 to 50N</td> </tr> </table>		Min Torque Rotation	5nNm	Max Torque	200nNm	Max Speed	314rad/s	Normal Force Range	0.01 to 50N
Min Torque Rotation	5nNm									
Max Torque	200nNm									
Max Speed	314rad/s									
Normal Force Range	0.01 to 50N									
Application of Instrument (Limited to Major 4 or 5)	For finding the Dynamic Viscosity of various liquids and semi solids under various conditions.									

Department of Mechanical Engineering, NIT Calicut

Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	Liquids (100mL) Semi Solids
Types of Analysis / Testing	1)Determining the Dynamic Viscosity 2)Plotting various graphs (Shear rate Vs Shear stress, Viscosity Vs Shear Rate etc.)
Faculty In-Charge Name / Email / Contact	Dr. Amit Kumar Singh amitsingh@nitc.ac.in 8949362395
Technical Staff Name / Email / Contact	Mr. Eldho P Varghese epv76@nitc.ac.in 9447278215
Location of Instrument	TRIBOLOGY LAB
Other Details	

User Charges (per sample):

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National Labs	Industry
1	Determining the Dynamic Viscosity	Nil	100	500 + Gst (18%)	500 + Gst (18%)	1000 + Gst (18%)

Note: Consumables and any other expenditure charges will be as per requirement, if any.

Slot Booking and Payment Work Flow: