

CALL FOR QUOTATION FOR A RESEARCH GRADE ROTATIONAL RHEOMETER

Inquiry: 1 CHE/CF/1/2017

Please send a sealed quotation for a rotational stress/strain controlled research grade rheometer to carry out rheological studies on soft materials such as suspensions emulsions, pastes, polymeric solutions and polymeric melts.

The rheometer should have following specifications:

Description	Specification
Mode:	Controlled Stress/Strain, Oscillation, Elongational (vertical movement of the top plate)
Bearing Type	Magnetic Bearings
Motor Type	Drag-Cup-Motor/ EC Motor (brushless DC) with high resolution optical encoder
Rotational Torque Range	Min: 3 nNm, Max: 200 mNm
Angular Velocity	Min: 0 rad/s; Max: 300 rad/s
Resolution	0.025 micro rad
Frequency	Min: 1 μ rad/s; Max: 300 rad/s
Normal Force Range	Min: 0.01 N; Max : 50 N
Universal Peltier Temp. Control	For Parallel plate, Cone and plate and Coaxial Cylinders: geometries -40 °C to 200°C
Measuring Geometry with <u>smooth</u> surface	<ul style="list-style-type: none"> • Aluminum, 20 mm plate or equivalent • Stainless Steel, 40 mm Plate or equivalent • Aluminum, 60 mm Plate or equivalent • Stainless Steel, 60 mm Plate or equivalent • Stainless steel, 20 mm, 2 deg cone or equivalent • Stainless Steel, 40 mm, 1 deg Cone or equivalent

Sample Hood with Solvent	Suitable types
Tool recognition system	Automatic tool recognition system
Air dryer/Filter	Suitable capacity
Software	Software for both Data Acquisition and complete Rheological Analysis
Calibration Standards	Around 3 sets
Online UPS	Appropriate UPS that gives around 15 min backup for rheometer and PC (but not the compressor)
Computer and Printer	PC with the following specifications: Intel® 6th Gen Intel® Core™ i7 (6700T) Windows 10 Home (64bit) English Up to 2000GB3 SATA hard drive (5400RPM) 16GB (2x8G) 2133MHz DDR4 Memory Minimum 23 inch color monitor Laser printer: Automatic Duplex printer with scanning facility

Hard copies of the sealed quotations must be set to the following address by 20 January, 2017.

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