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CONE & PLATE VISCOMETER

RHOPOINT
PAINTLAB+ ©

- High accuracy measurement
- Fully automated
- Dual speed operation
- Ultra precise temperature control

RHOPOINT PAINTLAB+ ©

Viscosity measurement of coatings is essential at each stage of the manufacturing process to ensure consistent quality standards.

Many parameters can effect the rheological behaviour of a finished coating resulting in undesirable effects such as inconsistent performance, poor levelling or sagging. The use of high precision measuring instruments is therefore

essential in quality control to prevent such problems occurring during formulation, manufacture and application.

The Rhopoint *PAINTLAB+* Cone & Plate Viscometer provides high accuracy viscosity measurement of non-newtonian paints and coatings. This viscometer is specifically designed to provide stringent testing conditions to allow the measurement of these materials as the viscosity changes according to the shear stress that is applied.



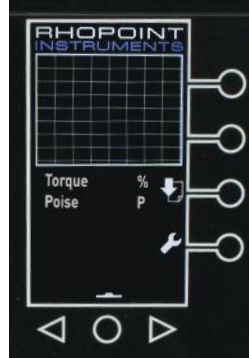
**EASY CLEAN
DESIGN**

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FEATURES

Precise Measurement

High stability motor speed control ensures accuracy and repeatability during each test. Real-time high resolution graphing allows monitoring of changes during measurement providing identification of inconsistencies between samples. Measurement results displayed instantly on screen after test in P, cP, Pa.s or mPa.s.



Advanced Temperature Monitoring

The viscometer utilises an integrated high stability temperature controlled plate onto which the samples are applied to test. A preheat function allows rapid stabilisation of sample temperature which is accurately controlled throughout the measurement process.



Dual Speed Operation

The instrument is configured to allow testing using shear rates according to two standardised test methods - ASTM (750 rpm - 12,000 s⁻¹) and BS (900 rpm - 10,000 s⁻¹). Precision speed control ensures that shear rates applied are highly repeatable and test results are reliable. The combination of two test speeds and selection of viscosity ranges allow the testing of products to a wide range of international test methods.

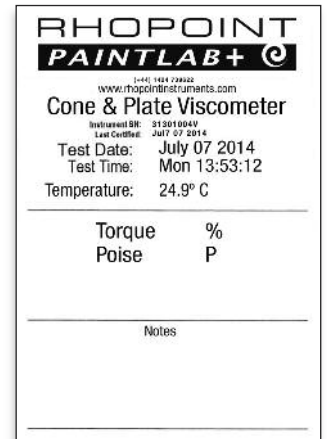


Easy Clean Design

Lab-tough easy clean glass allows easy removal and cleaning of unintentional splashes and smears from the capacitive sense buttons and screen. The solvent resistant anodised aluminium instrument chassis ensures that the instrument can be cleaned and restored to pristine condition even in the toughest working environments.

Data Transfer

Measurement data including time, date and test temperature can be printed to a Rhopoint label printer (supplied as an optional accessory). Printed labels can be attached to each sample for easy identification and recording of results.



APPLICATIONS



Paints and coatings



Inks



Adhesives



Pastes



INSTRUMENT SPECIFICATION

STANDARDS	BS 3900;A7, ASTM D 4287, ISO 2884
RESOLUTION	±0.1°C
REPEATABILITY	±0.2%
ACCURACY	+/-0.2°C
VISCOSITY RANGE	0 – 100P in 5 ranges: 0 - 5P, 0 – 10P, 0 - 20P, 5 - 50P, 10 – 100P
DUAL SPEED	750rpm – 10,000 s ⁻¹ , 900rpm – 12,000 s ⁻¹
OPERATING TEMPERATURE	5°C to 70°C
POWER	110V/230V
WEIGHT	7.25 kg
SIZE	(H) 460 x (W) 320 x (D) 190 mm
PACKED WEIGHT	10 kg
PACKED DIMENSIONS	(H) 680 x (W) 460 x (D) 380 mm
COMMODITY CODE	9027 8017

INCLUDED ACCESSORIES

- Traceable calibration certificate

CONE KIT

Please note the Cone & Plate Viscometer is not supplied with a cone as standard. Please order one of the following cone kits according to required range.

Description	Order code
0 - 5 poise Cone Kit	RL-B-CONEKIT/0-5
0 - 10 poise Cone Kit	RL-B-CONEKIT/0-10
0 - 20 poise Cone Kit	RL-B-CONEKIT/0-20
5 - 50 poise Cone Kit	RL-B-CONEKIT/5-50
10 - 100 poise Cone Kit	RL-B-CONEKIT/10-100

OPTIONAL ACCESSORIES

- Results printer
- USB data cable
- Certified calibration oils
- Certified recalibration kit
 - 5 x traceable viscosity oils
 - USB calibration key
 - Recalibration certificate

