



RHOPOINT
INSTRUMENTS



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PAINTLAB+ ©

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Test instruments for paints
and coatings

Krebs Viscometer

- Precise measurement
- Fully automated
- Paint resistant design
- User certifiable



The *PAINTLAB+* Krebs Viscometer offers high accuracy viscosity measurement with advanced functionality. Based on the standard ASTM Krebs test method, the viscometer uses a rotating paddle at a fixed speed of 200rpm to directly measure the viscosity in Krebs units (KU), centipoise (cP) or grams (g).

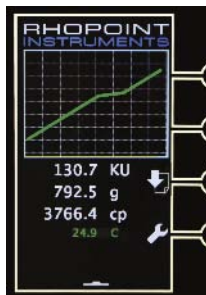
The viscometer's fully automated operation saves time by accurately lowering the paddle into the sample to the correct height for a number of standard container sizes.

Once the test has completed, the paddle automatically raises to drain off, saving time during cleaning. The easy to use quick release magnetic paddle holder allows rapid removal for cleaning after use.

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 all three units.



Advanced Temperature Monitoring

An integrated temperature probe accurately measures and records sample temperature for each test. As sample viscosity is influenced by test temperature, accurate monitoring and recording ensures reliability of test results.



Cone & Plate Viscometer

- Dual speed operation
- Fully automated
- Precision temperature control
- Accurate wear resistant cone & plate



The *PAINTLAB+* Cone & Plate Viscometer measures the viscosity 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.

A precision wear resistant cone rotating at high speed on a temperature controlled plate produces standardised shear rates during measurement. Fully automated operation ensures rapid and accurate positioning of the cone onto the plate.

Results are displayed simultaneously on screen in poise (P), centipoise (cP), Pascal-second (Pa.s) or millipascal-second (mPa.s). Real-time high resolution graphing provides monitoring of changes in viscosity during measurement allowing the identification of changes in flow behaviour.

Dual Speed Operation

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



Precision Temperature Control

The viscometer employs 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. Both cone and plate are manufactured from tungsten carbide providing both excellent wear resistance and high accuracy.



Flow Cups

- Aluminium body
- Stainless steel orifice
- High accuracy
- Easy to clean



This precision engineered range of standardised flow cups allow the measurement of the kinematic viscosity of paints, varnishes and other newtonian liquids by recording the flow time of the product through the cup.

Different flow cup types are available according to the relevant International Standard. Traceable calibration certification, according to the calculations given by the relevant standard or to internal comparative procedures, is available on request when ordering.

Precision Engineered

Manufactured from high grade aluminium alloy and fitted with stainless steel orifices (specification dependant) the flow cups are easy to clean and durable. A high quality internal surface finish for optimum accuracy and performance is obtained using the latest computerised machining process.

Quality Assured

Each flow cup undergoes a thorough dimensional and visual inspection to ensure high quality standards.

We recommend checking the flow cups periodically using our standard range of calibration oils to maintain optimal accuracy of results.



Calibration Oils

- UKAS traceable
- Mineral based
- Wide range available



Rhopoint calibration oils are specially formulated to meet a wide range of calibration requirements. These oils are manufactured in accordance with ISO 17025 and are traceable to UKAS certified standards.

Their 100% hydrocarbon composition means they are suitable for the calibration of both kinematic and rotational viscometers. Manufactured in accordance with ASTM D 2162, the primary method for viscosity standards manufacture.

UKAS Traceable

Calibration oils are dual UKAS certified to the International Standards ISO 17025 and ISO Guide 34. Supplied in 500ml bottles, the oils come complete with calibration data on the label of their kinematic and dynamic viscosity.

Values are listed in centistokes (cSt) and millipascals-second (mPa.s) for a range of temperatures. All oils are manufactured in the UK and come with a 2 year shelf life.

Pfund Cryptometer

- Wet film hiding power
- Wet film spreading power



The Rhopoint Instruments *PAINTLAB+* Cryptometer was developed to provide a simple and rapid subjective test method for the determination of opacity in terms of hiding and spreading powers.

The cryptometer is a wedge type film applicator, which uses a small sample to determine the wet hiding power of a coating within a few minutes.

MFFT

- Paints and coatings
- Adhesives
- Touch screen display
- Industry standard instrument

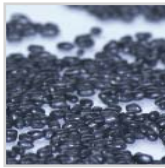


The Rhopoint MFFT is used to determine the minimum film forming temperature and white point in paint and coatings such as water based coatings, polymer dispersions, synthetic latexes and emulsion.

The MFFT also tests adhesive temperature optimisation in such areas as coalescence of water-borne adhesives and minimum temperature for epoxy resin cure.

Design

The new MFFT benefits from an easy to use touch screen interface, digital MFFT temperature calculation and output to handy results labels. These additions to the trusted Rhopoint MFFT make the instrument easy to operate with improved certainty results.



All products designed and manufactured in the UK by:

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