



**Bohlin**

Visco 88



Rheological instruments backed with rheological experience

Simple to use, dependable and versatile, the Bohlin Visco 88 brings accurate, reliable and practical viscosity measurement to both laboratory based and field based situations. With its robust carrying case, rugged design and rechargeable battery, the Bohlin Visco 88 is ready for use wherever, whenever.

When connected to your PC with the Windows™ compatible software, the Bohlin Visco 88 delivers fully programmed results following pre-set or user-defined protocols with automated data processing for model fitting including Bingham, Casson and Herschel Bulkey.

And with the range of optional attachments and additions available, the Bohlin Visco 88 becomes the centerpiece for serious viscosity measurement and analysis.



## Experimental measurement

- Single point viscosity for QC/QA
- Flow curves
- Yield stress
- Thixotropy and rheopexy
- Pseudoplasticity and dilatancy
- Curing and gelation
- Softening and melting

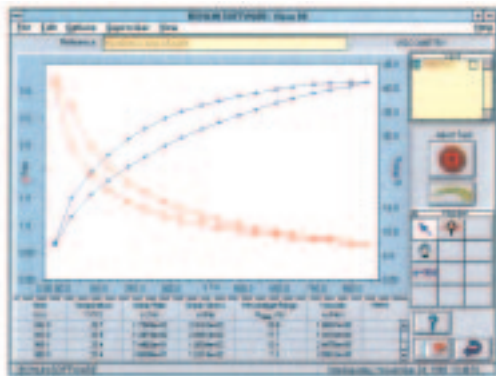
## Applications

- Paints and coatings
- Inks
- Surfactants and polymer solutions
- Foods
- Pharmaceuticals
- Cosmetics
- Plastics and polymers
- Adhesives and sealants
- Petrochemicals
- Drilling fluids

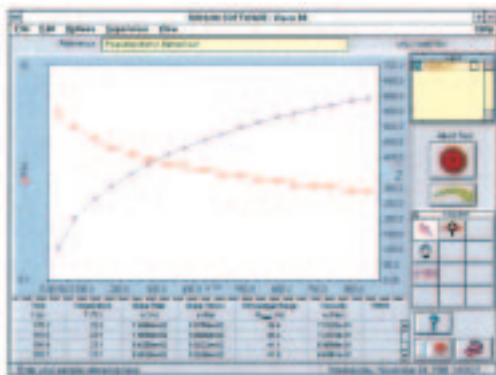


## Software to make it happen

As a portable, stand alone viscometer the Bohlin Visco 88 excels but, as expected from an instrument which brings practicality and quality together, it offers even more when connected to a PC. Real time analysis and data merge for pass/fail testing becomes possible.



**Hysteresis loops** for paint correlating instantaneous viscosity with shear rate



**Pseudoplastic behaviour readings displayed using standard software options**

## Options



**Thermal jacket** When using the DIN standard or 'wide gap' coaxial cylinder configurations, the thermal jacket regulates the sample temperature



**Cone and plate** High viscosity fluids and pastes can be analysed with the cone and plate accessories. The Bohlin Visco 88 offers simple, accurate and repeatable gap setting whilst the integral water jacket controls sample temperature.

## Overview

## Bohlin Visco 88

### Viscosity measurement of fluids and pastes

Rotational speeds	0 - 1000rpm
Shear rate range	0 - $2 \times 10^4 \text{ s}^{-1}$
Torque range	0 - 10mNm
Shear stress range	0 - $10^4 \text{ Pa}$
Viscosity range	5mPa.s - $10^7 \text{ mPa.s}$
Temperature range	-35°C - 150°C
Operating voltage	9V (Rechargeable batteries)
Size/weight (instrument excluding measuring geometry)	24cm (H) x 15cm (W) x 23cm (D) 1.2kg
Size (instrument on stand)	55cm (maxH) x 24cm (W) x 23cm (D)
Size/weight (instrument in carrying case)	56cm x 43cm x 19cm 10.5kg

### Standard equipment in carrying case

DIN 53019 coaxial cylinders - 14mm, 25mm, 30mm diameter

Non DIN coaxial cylinders - Wide Gap, Infinite Sea

### Optional equipment

Roughened coaxial cylinders

Double gap coaxial cylinders

Cone and plate angles 2.5° and 5.4° diameters 15mm and 30mm (options on request)

Plate diameters 15mm and 30mm (options on request)

Serrated or roughened cones and plates

Vane tool measuring systems

Every Bohlin Visco 88 from Malvern is backed with the technical and sales support of Malvern Instruments, the only material characterization company with the resources and equipment to measure particle size and shape, zeta potential and molecular weight as well as the expertise to advise on how these parameters influence rheological properties.

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