

Viscosity

Torsional Viscometer

A simple to use comparative viscometer for quality control applications, particularly suited for use in the ceramics industry but can be used with other viscous materials with viscosities up to approximately 10,000cp.

- ◆ Simple manual operation - no electrical connections required
- ◆ Results can be obtained in minutes
- ◆ Can be located on the factory or workshop floor

The instrument comprises a torsion wire attached to a flywheel, suspended above an engraved 360° scale and a bob for immersing in the sample. Applying a torsion allows the fly-wheel to over-swing. This is a measure of the sample viscosity. Results obtained are usually expressed in over-swing degrees.

Torsional Viscometer

As described. Overall 150 x 240 x 730mm high. With flywheel, engraved scale and stand. Supplied with one each 30swg wire, $\frac{1}{16}$ inch bob, sample cup and instructions.

VC830-10 Torsional viscometer

Accessories and Spares

VC832-08 Wire, 30swg

VC832-12 Wire, 36swg

VC832-20 Bob, $\frac{1}{4}$ inch

VC832-23 Bob, $\frac{1}{2}$ inch

VC832-26 Bob, $\frac{1}{16}$ inch

VC832-29 Bob, $1\frac{1}{8}$ inches

VC832-32 Bob, $1\frac{5}{8}$ inches

VC832-50 Sample cup,
69 x 62mm
diameter x height

VC832-53 Stirrer to provide
manual stirring

Falling Ball Viscometer

For precise and easy measurement of the dynamic viscosity of transparent Newtonian liquids. In use the relative viscosity is obtained by timing the fall of a sphere in the sample under test over a fixed distance within a column at an angle of 80° (Höppler principle). Test results are given as dynamic viscosity in the internationally standardised units of milliPascals. This method is particularly suited for measuring low viscosities and applications can be found in the petroleum, paper, chemical, paint, detergent, cosmetic and food industries.

- ◆ Meets the requirements of DIN53015 and ISO12018
- ◆ Reproducibility better than 0.5%
- ◆ Comparability better than 1%
- ◆ Precision bore, 40ml capacity, measuring cylinder with 3 graduations, each 50mm apart
- ◆ Water jacket with -1 to +26°C thermometer and ferrules for connection to an accessory thermostatic circulator

Measuring ranges

Ball number	Range, mPas
1	0.6 to 10
2	7 to 130
3	30 to 700
4	200 to 4800
5	1500 to 45000
6	>7500

Falling ball viscometer

As described. Supplied with 6 balls (2 each borosilicate glass, nickel-plated iron and stainless steel) 11mm to 15.81mm diameter and -1 to +26°C x 0.1°C enclosed stem thermometer, calibration and instruction manuals, and cleaning tools. Overall 270 x 370 x 270mm H x W x D.

VC840-20 Falling ball viscometer

Consistometer

A simple, low cost, easy-to-use device for accurately checking laboratory or production samples against consistency, viscosity or flow rate standards. Widely used in the chemical, paint, cosmetic and food processing industries.

- ◆ Robust, stainless steel construction allows easy cleaning after test
- ◆ Low sample requirement (75ml)
- ◆ Engraved graduations every 0.5cm give accuracy and ensure long operational life
- ◆ Supplied with built-in spirit level and adjustment screws

Consistometer

As described. Supplied with spirit level and levelling screws. Overall 355 x 88 x 104mm L x W x H.

VC845-10 Consistometer

Circulators – see *CL120/CL125*.

Stopwatches – see *TM480*.



VC830



VC840



VC845