Viscosity

Mooney Viscometer Mk III

Calibration Kits

Wallace offer calibration kits to regularly verify the operation of the Mooney Viscometer as part of good laboratory practice. This requires the verification of both torque and temperature.

Features

Torque Calibration Kit

- Known weights to simulate torque
- Easy to fit frame
- Ability to simulate repeatable know Mooney value for calibration

Temperature Calibration Kit

- Custom temperature sensor to measure both platens simultaneously
- Dual channel digital thermometer

Principles of Operation

Torque

In normal operation the rotor is rotated within a sample, the sample has resistance and so the rotation of the rotor generates torque. This torque is measured and the result is expressed in Mooney units. To calibrate the instrument the sample resistance is simulated using weights. These are suspended on a frame using wire cables attached to a spool. The spool is located in place of the rotor. When the motor is started, the spool winds in the weights and they simulate 100 Mooney units.

Temperature

The temperature block is placed between the platens and the platens are closed. The temperature of both upper and lower platens is displayed at the same time on the dual input digital thermometer.

Mooney Viscometer Mk III
Calibration Kit

Specifications

Torque

Calibration Kit	
Part Number	WAV3/CAL KIT
Kit Box Dimensions (mm)	180(h) x 600(w) x 500(d)
Kit Weight	38kg

Included	
Calibration Weight	2 off
Pulley Assembly	1 off
Rotor Height Gauge	1 off
Calibration Frame	1 off

Temperature

Calibration Kit	
Part Number	W9-320
Kit Box Dimensions (mm)	55(h) x 235(w) x 200(d)
Kit Weight	740g

Included	
Temperature Sensor Unit	1 off
Dual Input Thermometer	1 off

Standards

ISO 289-1, ASTM D1646