

Elcometer Viscosity Cup Standard Calibration Oils



Elcometer 2410 Calibration Oils

At a glance:

To check the viscosity cup's calibration and certify it for ISO purposes

The specific drain time is dependent on the cup type

Replace your liquid with the standard oils to measure drain time

In order to check a viscosity cup's calibration or to certify it for ISO purposes, it is imperative that viscosity cup standard calibration oils are used.

Standard oils have a specified drain time, dependent upon the viscosity cup type (Ford, Shell, Zahn, etc) and the orifice size or cup number used.

To check the viscosity cup, use the standard viscosity oils in place of the liquid and measure the drain time.

Specific calibration oils can only be used with specific flow and dip cups. Please refer to the table below to establish which oil is required for each cup.

All viscosity oils are supplied in ½ litre (1 pint) bottles.

Viscosity

The extent to which a liquid resists a tendency to flow is defined as viscosity. In the coatings industry, this behaviour is one of the key parameters.

Elcometer manufactures and supplies a wide range of viscosity gauges from flow cups and dip cups to rotational viscometers

Flow Cups: The process of flow through an orifice can often be used as a relative measurement and classification of viscosity. This measured kinematic viscosity is generally expressed in seconds of flow time which can be converted into Centistokes using a viscosity disc calculator.

Dip Cups: Using the same principle to the flow cups, dip cups – Frikmar, Zahn, Shell, etc – can be used to provide a quick viscosity measurement on the shop floor or on site

Rotational: Rotational viscometers are used to determine the viscosity of liquids which do not depend solely on temperature and pressure. The behaviour of non-Newtonian liquids can be determined using a range of rotational viscometers.

Part Number	Kinematic Viscosity at 25°C (77°F) [†]	Cup Type	Cup No.	Model	Orifice Diameter
K0002410M021	34cSt	Zahn Dip Cup	1	Elcometer 2210/1	1.8mm
K0002410M022	120cSt	Zahn Dip Cup	2	Elcometer 2210/2	2.7mm
K0002410M023	230cSt	Zahn Dip Cup	3	Elcometer 2210/3	3.8mm
K0002410M024	460cSt	Zahn Dip Cup	3	Elcometer 2210/3	3.8mm
K0002410M025	850cSt	Zahn Dip Cup	4	Elcometer 2210/4	4.3mm
K0002410M026	1600cSt	Zahn Dip Cup	5	Elcometer 2210/5	5.3mm
K0002410M021	34cSt	Shell Dip Cup	2	Elcometer 2310/2	2.4mm
K0002410M022	120cSt	Shell Dip Cup	4	Elcometer 2310/4	3.8mm
K0002410M023	230cSt	Shell Dip Cup	5	Elcometer 2310/5	4.6mm
K0002410M024	460cSt	Shell Dip Cup	6	Elcometer 2310/6	5.8mm
K0002410M022	120cSt	DIN Flow Cup	4	Elcometer 2350/2	4mm
K0002410M023	230cSt	DIN Flow Cup	4	Elcometer 2350/2	4mm
K0002410M024	460cSt	DIN Flow Cup	4	Elcometer 2350/2	4mm
K0002410M021	34cSt	ASTM/Ford Flow Cup	2	Elcometer 2351/2	2.53mm
K0002410M022	120cSt	ASTM/Ford Flow Cup	3	Elcometer 2351/3	3.4mm
K0002410M023	230cSt	ASTM/Ford Flow Cup	4	Elcometer 2351/4	4.12mm

Part Number	Kinematic Viscosity at 25°C (77°F) †	Cup Type	Cup No.	Model	Orifice Diameter
K0002410M021	34cSt	ISO Flow Cup	3	Elcometer 2353/1	3mm
K0002410M022	120cSt	ISO Flow Cup	4	Elcometer 2353/2	4mm
K0002410M023	230cSt	ISO Flow Cup	6	Elcometer 2353/4	6mm
K0002410M024	460cSt	ISO Flow Cup	6	Elcometer 2353/4	6mm
K0002410M022	120cSt	DIN Frikmar Dip Cup	4	Elcometer 2434/2	4mm
K0002410M023	230cSt	DIN Frikmar Dip Cup	4	Elcometer 2434/2	4mm
K0002410M024	460cSt	DIN Frikmar Dip Cup	4	Elcometer 2434/2	4mm
K0002410M021	34cSt	ISO Frikmar Dip Cup	3	Elcometer 2437/2	3mm
K0002410M022	120cSt	ISO Frikmar Dip Cup	4	Elcometer 2437/3	4mm
K0002410M023	230cSt	ISO Frikmar Dip Cup	6	Elcometer 2437/4	6mm
K0002410M024	460cSt	ISO Frikmar Dip Cup	6	Elcometer 2437/4	6mm

† Nominal Value

Related Products



Elcometer Viscosity Dip Cups

Elcometer Viscosity Dip Cups:

These cups are ideal for the quick testing of the viscosity of paints, varnishes and similar products during manufacturing processes.

Dip cups are dipped into the substance being tested and the viscosity is determined by the time it takes for the cup to empty with a steady flow.

Elcometer has a range of viscosity dip cups including Frikmar, Zahn, Shell and Lory Cups.



Elcometer Flow Cups

Elcometer Flow Cups:

Easy to use instruments made of anodized aluminium with a stainless steel orifice, for measuring the consistency of paints, varnishes and other products.