Elcometer FRIKMAR Viscosity Cups with Handle

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At a glance

- *Handle provides ease of use*
- *Ideal for measuring the consistency of paints*
- *Expressed in second (s) flow time but can be converted to centistokes (cSt)*
- *Ranges from 7 to 1100cSt*

Elcometer FRIKMAR Viscosity Cups with Handle
Thanks to its handle, this cup is very easy to use and performs quick controls in the workshop or during the manufacturing process. Ideal for measuring the consistency of paints, varnishes and similar products.

The cup is first dipped into the product to be measured, then empties through the orifice. The measured kinematic viscosity is generally expressed in seconds (s) flow time, which can be converted to centistokes (cSt), if standard stipulates conversion method.

Several ranges are available, according to standards; from 7 to 1100cSt.

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 and cone and plate 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,

Model	Cup Number	Viscosity Cup Type		Range Centistokes (cSt)	Part Number
Elcometer 2434/1	2	DIN	DIN 53211	-	K0002434M001
Elcometer 2434/2	4	DIN		96-683	K0002434M002
Elcometer 2434/3	6	DIN		-	K0002434M003
Elcometer 2434/4	8	DIN		-	K0002434M004
Elcometer 2435/1	4	ASTM	ASTM D1200	70-370	K0002435M001
Elcometer 2436/1	4	AFNOR NTT	AFNOR NTT 30-014	50-1100	K0002436M001
Elcometer 2437/2	3	ISO DIN NF NBN ASTM	ISO 2431 DIN 53224 NF T 30 070 NF EN 535 ASTM D1525 NBN T22-108	7-42	K0002437M002
Elcometer 2437/3	4	ISO DIN NF NBN ASTM		34-135	K0002437M003
Elcometer 2437/6	5	ISO DIN NF NBN ASTM		91-326	K0002437M006
Elcometer 2437/4	6	ISO DIN NF NBN ASTM		188-684	K0002437M004
Elcometer 2437/5	8	ISO DIN NF NBN ASTM		-	K0002437M005
Accessories	2400 Viscosity Conversion Disk				KT002400N003
	Stopwatches				K0007300M201
	Viscosity Standard Oils for Calibration				See Standard Oils
Packing List	Elcometer Viscosity Dip Cup with handle, Storage case & Operating instructions				

Elcometer provide a viscosity recalibration service using state of the art, climate controlled facilities, for information please contact Elcometer

Flow & Dip Cups

Viscosity Cup Reference Table[1]							
Cup Type	Range (Cts)		Time (seconds)		Advised Standard Oil	Kinematic** Viscosity (Cts)	Drain Time (Seconds)
	Minimum	Maximum	Minimum	Maximum			
DIN 4	96	683	25	150	S200	460	101.5
ISO 3	7	42	30	100	S20	34	82.5
ISO 4	34	135	30	100	N35	66	47
ISO 5	91	326	30	100	N100	230	71
ISO 6	188	684	30	100	S200	460	68
ASTM 1	10	35	55.5	106.5	N10 or C10*	17	69.5
ASTM 2	25	120	35.5	87.5	S20 or C20*	34	41.5
ASTM 3	49	220	28	102	S60 or C60*	120	58.5
ASTM 4	70	370	23	101	S60 or C60*	120	35.5
ASTM 5	200	1200	18.5	101	S200 or C200*	460	40
ZAHN 1	5	56	33.5	80	N10 or C10*	17	44.5
ZAHN 2	21	231	20	80	S60 or C60*	120	48
ZAHN 3	146	848	20	80	S200 or C200*	460	47
ZAHN 4	222	1100	20	80	S200 or C200*	460	36
ZAHN 5	460	1840	20	80	N350 or C350*	850	36.5
AFNOR 2.5	5 Cps	140 Cps	30	250	S60	120	***
AFNOR 4	50 Cps	1100 Cps	20	300	S200	460	***
AFNOR 6	510 Cps	5100 Cps	30	300	S60	1600	***

* The ‘S’ and ‘N’ prefix you have dynamic viscosity, kinematic viscosity and density at different temperatures; with the ‘C’ prefix, kinematic viscosity and draintime is at 25ºC (77ºF) for Zahn, Ford and Shell Cups.

** Kinematic Viscosity and Drain Times mentioned above are approximate values at 25ºC (77ºF) Exact values will be displayed on the standard oil bottle

*** For comparison only

[1] For information only

Elcometer 2410 Viscosity Standard Oils for Calibration

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In order to check your viscosity cup's calibration or to certify for ISO purposes, it is imperative that you use viscosity standards.

Standard oils have a specific drain time, dependant on the viscosity cup type (Ford, Shell, Zahn, etc), and the orifice or cup number used.

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

(½ Litre/1 Pint).

Model	Description	Part Number
Elcometer 2410/1	Canon Standard Viscosity Oil S20 - 31 CPS at 25°C	K0002410M001
Elcometer 2410/2	Canon Standard Viscosity Oil S60 - 100 CPS at 25°C	K0002410M002
Elcometer 2410/3	Canon Standard Viscosity Oil S200 - 400 CPS at 25°C	K0002410M003
Elcometer 2410/4	Canon Standard Viscosity Oil S600 - 1400 CPS at 25°C	K0002410M004
Elcometer 2410/11	Canon Standard Viscosity Oil N10 - 15 CPS at 25°C	K0002410M011
Elcometer 2410/12	Canon Standard Viscosity Oil N100 - 210 CPS at 25°C	K0002410M012
Elcometer 2410/13	Canon Standard Viscosity Oil N350 - 750 CPS at 25°C	K0002410M013
Elcometer 2410/21	Canon Standard Viscosity Oil C20 - 34 CPS at 25°C	K0002410M021
Elcometer 2410/22	Canon Standard Viscosity Oil C60 - 120 CPS at 25°C	K0002410M022
Elcometer 2410/23	Canon Standard Viscosity Oil C100 - 230 CPS at 25°C	K0002410M023
Elcometer 2410/24	Canon Standard Viscosity Oil C200 - 460 CPS at 25°C	K0002410M024
Elcometer 2410/25	Canon Standard Viscosity Oil C350 - 850 CPS at 25°C	K0002410M025
Elcometer 2410/26	Canon Standard Viscosity Oil C600 - 1600 CPS at 25°C	K0002410M026
Elcometer also provide a viscosity recalibration service using state of the art, climate controlled facilities, for information please contact Elcometer		

Related products

Elcometer 2210

These easy to use Zahn Cups, fabricated out of stainless steel are ideal for quick viscosity measurement of products on site or during production.

Elcometer 2310

Often used in the printing or ink industry, the Shell Cup is used for quick viscosity measurements on site or during production.

Elcometer 2351

Very easy to use instruments of anodized aluminium with a stainless steel orifice. Viscosity Flow Cups are used for measuring the consistency of paints, varnishes and other similar products.

Elcometer 2400

This viscosity calculator is a simple conversion table that allows the viscosity (usually recorded in cSt) and flow times (recorded in seconds) to be compared.

Elcometer 7300

A professional high precision stopwatch is required for measuring the flow time of a coating or other product under test with a viscosity cup.

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