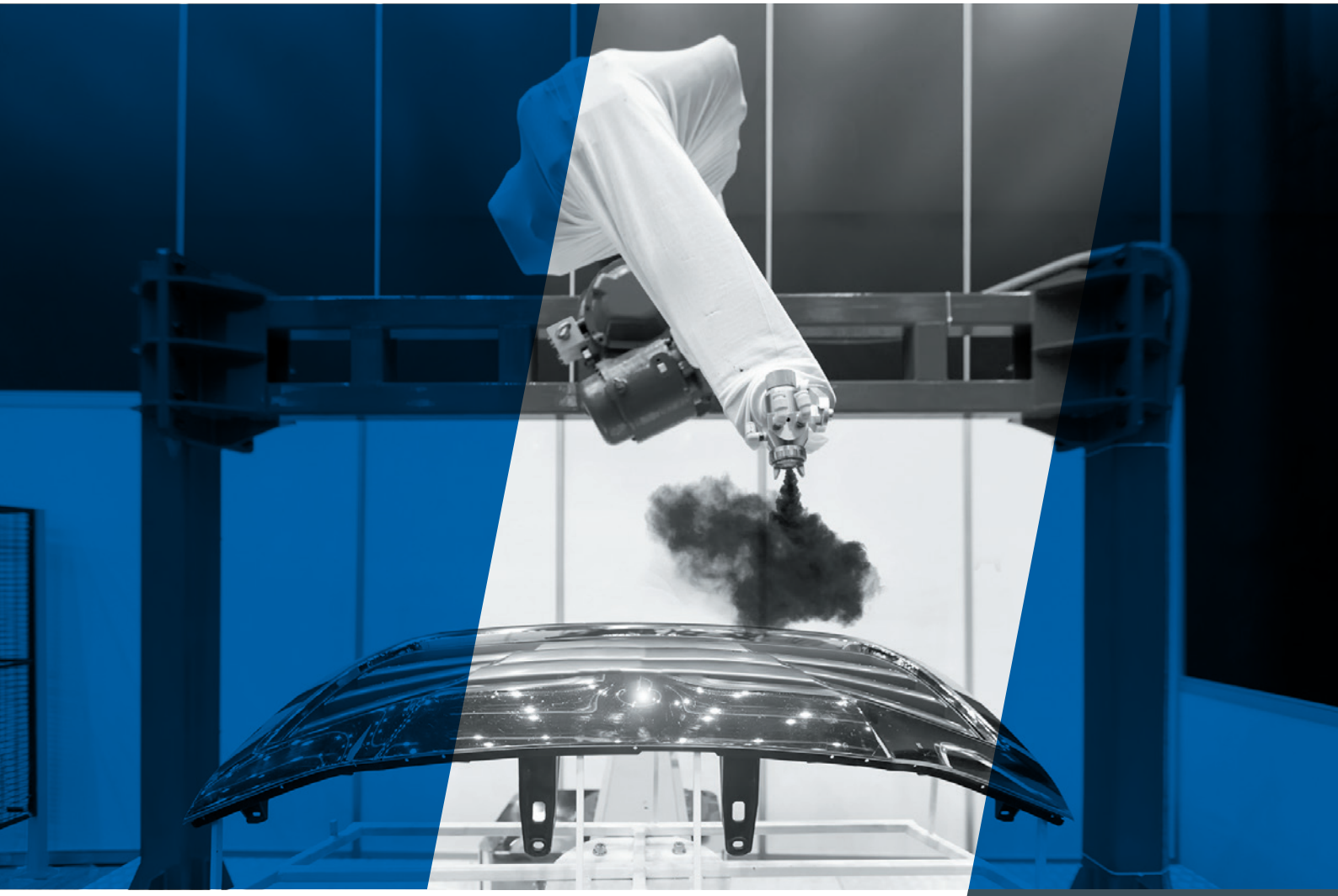
RHOPINT INSTRUMENTS

RHOPINT AMERICAS



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Manufactured by Rhopoint Instruments in the United Kingdom

RHOPINT PAINTLAB+

Viscosity Flow Cups

- Precise flow rate measurement
- Choice of standards of compliance
- Robust design and construction
- Available to buy online

Viscosity Flow Cups

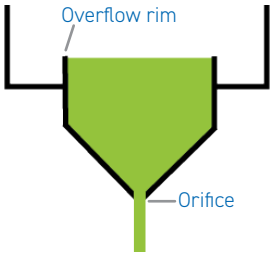
The Rhopoint Flow Cups are designed to accurately measure the viscosity of paints, inks, varnishes and similar products.

What is viscosity?

The term “viscosity” is a parameter that describes a fluids resistance to flow. This resistance is a measure of the friction and the forces of interaction between the layers of a fluid. This friction is apparent when one layer of fluid is made to move against another
The greater the friction, the greater the amount of force required to cause the movement – known as “shear”.

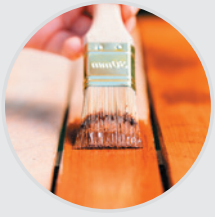
The process of flow through an orifice can often be used as a relative measurement and classification of viscosity. This measured kinematic viscosity is generally expressed in seconds of flow time which can be converted into centistokes (cSt) using a viscosity calculator.

Flow cup (cross section)



Manufactured from high grade aluminium alloy with stainless steel orifices (where indicated), the Rhopoint Flow Cups are available with a range of UKAS / ISO 17025 certified standard oils to confirm the flow cup is measuring within specification.

Paint



Varnish

Printing Ink

Product	Order code	Orifice diameter	Viscosity range	Flow times
BS FLOW CUP				Buy online
 BS 3900 (1971) Old Specification (B2)	RL-A-FC-PTA6/B2	2.38mm (0.09")	38 - 71cSt	
BS 3900 (1971) Old Specification (B3)	RL-A-FC-PTA6/B3	3.17mm (0.12")	38 - 147cSt	
BS 3900 (1971) Old Specification (B4)	RL-A-FC-PTA6/B4	3.97mm (0.16")	71 - 455cSt	30 - 300 secs
BS 3900 (1971) Old Specification (B5)	RL-A-FC-PTA6/B5	4.76mm (0.19")	299 - 781cSt	
BS 3900 (1971) Old Specification (B6)	RL-A-FC-PTA6/B6	7.14mm (0.28")	781 - 1650cSt	
DIN FLOW CUP				Buy online
 Din Flow Cup (2mm) - DIN 53211	RL-A-FC-DIN2	2mm (0.08")	5 - 30cSt	
Din Flow Cup (4mm) - DIN 53211	RL-A-FC-DIN4	4mm (0.16")	112 - 685cSt	
Din Flow Cup (6mm) - DIN 53211	RL-A-FC-DIN6	6mm (0.24")	550 - 1500cSt	25 - 150 secs
Din Flow Cup (8mm) - DIN 53211	RL-A-FC-DIN8	8mm (0.31")	1200 - 3000cSt	
The orifices are manufactured from stainless steel.			(approximately)	
FORD FLOW CUP				Buy online
 Ford Flow Cup No 1 - ASTM D1200	RL-A-FC-ASTM1	2.1mm (0.08")	10 - 35cSt	55 - 100 secs
Ford Flow Cup No 2 - ASTM D1200	RL-A-FC-ASTM2	2.8mm (0.11")	25 - 120cSt	40 - 100 secs
Ford Flow Cup No 3 - ASTM D1200	RL-A-FC-ASTM3	3.4mm (0.13")	49 - 220cSt	30 - 100 secs
Ford Flow Cup No 4 - ASTM D1200	RL-A-FC-ASTM4	4.1mm (0.16")	70 - 370cSt	30 - 100 secs
Ford Flow Cup No 5 - ASTM D1200	RL-A-FC-ASTM5	5.8mm (0.23")	200 - 1200cSt	30 - 100 secs
The orifices are manufactured from stainless steel.				
ISO/ASTM FLOW CUP				Buy online
 Flow Cups to BS EN ISO 2431, ASTM D5125	RL-A-FC-ISO3	3mm (0.12")	7 - 42cSt	
Flow Cups to BS EN ISO 2431, ASTM D5125	RL-A-FC-ISO4	4mm (0.16")	35 - 135cSt	
Flow Cups to BS EN ISO 2431, ASTM D5125	RL-A-FC-ISO5	5mm (0.20")	91 - 325cSt	30 - 100 secs
Flow Cups to BS EN ISO 2431, ASTM D5125	RL-A-FC-ISO7	6mm (0.24")	188 - 684cSt	
Flow Cups to BS EN ISO 2431, ASTM D5125	RL-A-FC-ISO8	8mm (0.31")	600 - 2000cSt	
The orifices are manufactured from stainless steel.				
AFNOR FLOW CUP				Buy online
 Afnor Flow Cup - 2.5mm - NF T30-014	RL-A-FC-AFNOR/2.5	2.5mm (0.10")	5 - 140cSt	
Afnor Flow Cup - 4mm - NF T30-014	RL-A-FC-AFNOR/4	4mm (0.16")	50 - 1100cSt	
Afnor Flow Cup - 6mm - NF T30-014	RL-A-FC-AFNOR/6	6mm (0.24")	510 - 5100cSt	30 - 100 secs
Afnor Flow Cup - 8mm - NF T30-014	RL-A-FC-AFNOR/8	8mm (0.31")	700 - 11500cSt	
FRIKMAR FLOW CUP				Buy online
 Frikmar Flow Cup 2mm - DIN 53211	RL-A-FC-FRIKMAR/2	2mm (0.08")	15 - 30 cSt	
Frikmar Flow Cup 4mm - DIN 53211	RL-A-FC-FRIKMAR/4	4mm (0.16")	112 - 685cSt	
Frikmar Flow Cup 6mm - DIN 53211	RL-A-FC-FRIKMAR/6	6mm (0.24")	550 - 1500cSt	25 - 150 secs
Frikmar Flow Cup 8mm - DIN 53211	RL-A-FC-FRIKMAR/8	8mm (0.31")	1200 - 3000cSt	
The orifices are manufactured from stainless steel.			(approximately)	

Specifications & Accessories

Specification	Application
Material	High grade aluminium alloy, stainless steel orifice
Commodity Code:	9027 8091
Weight	200 - 300g depending on model

Accessories

Certificate of conformity

Optional extra

Flow cup stand

Lightweight aluminium stand suitable for use with all Rhopoint flow cups. Supplied with spirit level

Order code: RL-A-FC-STAND

Calibration Oils

Order Code	Nominal Value 25°C (cSt)
RL-A-VISCOSITYOIL 14	17
RL-A-VISCOSITYOIL 28	33
RL-A-VISCOSITYOIL 50	59
RL-A-VISCOSITYOIL 75	88
RL-A-VISCOSITYOIL 100	115
RL-A-VISCOSITYOIL 150	174
RL-A-VISCOSITYOIL 200	233
RL-A-VISCOSITYOIL 250	289
RL-A-VISCOSITYOIL 300	352
RL-A-VISCOSITYOIL 350	405
RL-A-VISCOSITYOIL 390	446
RL-A-VISCOSITYOIL 500	580
RL-A-VISCOSITYOIL 750	862
RL-A-VISCOSITYOIL 1000	1160
RL-A-VISCOSITYOIL 1500	1718
RL-A-VISCOSITYOIL 2500	2860
RL-A-VISCOSITYOIL 3900	4530
RL-A-VISCOSITYOIL 6000	6900
RL-A-VISCOSITYOIL 7750	9000
RL-A-VISCOSITYOIL 10000	11300
RL-A-VISCOSITYOIL 15000	17000
RL-A-VISCOSITYOIL 20000	22500

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