

Viscosity is a key parameter in the behavior of paints both during the manufacturing process and during application. Proper control of this parameter will result in a better use of the paint.

Likewise, knowledge of both the application method and application temperature is required when formulating the paint. Adequate viscosity control at low and high shear rates and assessment of any thixotropy are also necessary during mixing in order to avoid later undesirable effects during application.




Application

Calculation of the viscosity by measuring the time needed to flow through an orifice of specific characteristics (seconds).


The Cinematic Viscosity is the relation between the absolute viscosity and the density of a fluid. It is usually called ν , consequently $\nu = \mu/\rho$. Some of the units to express it are m^2/s , stoke (St) and centistoke (cSt), with the following equivalences: $1 m^2/s = 10000 St = 1 \times 10^6 cSt$. Imagine two different fluids with the same absolute viscosity that flow vertically through an orifice. The fluid with the highest density will flow faster, i.e. the one with the lowest cinematic viscosity.

UNE ISO cup (UNE EN ISO 2431)

	Model	Order Code	Time (s)	Range (cSt)	Calibration Oils
	ISO 3	0201901	30-100	7-42	C20
	ISO 4	0201902	30-100	34-135	C60
	ISO 5	0201903	30-100	91-326	---
	ISO 6	0201904	30-100	188-684	C100


Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.

FORD cup (ASTM D1200)

	Model	Order Code	Time (s)	Range (cSt)	Calibration Oils
	FORD 1	0201210	55-100	10-35	C10
	FORD 2	0201220	40-100	25-120	C20
	FORD 2 with Handle	0201050			
	FORD 3	0201230	20-100	49-220	C60
	FORD 3 with Handle	0201020			
	FORD 4	0201240	20-100	70-370	C60
	FORD 4 with Handle	0201000			
	FORD 5	0201250	20-85	200-1200	C200
	FORD 5 with Handle	0201010			
	FORD 6	0201270	non-stantard	---	---
	FORD 6 with Handle	0201030			
	FORD 8	0201280	non-stantard	---	---
	FORD 8 with Handle	0201040			


Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.

DIN cup (DIN 53211-85)

	Model	Order Code	Time (s)	Range (cSt)	Calibration Oils
	DIN 4	0201106	20-80	25-680	C60
	DIN 4 with Handle	0201100			
	DIN 6	0201107	non-stantard	---	---
	DIN 6 with Handle	0201105			
	DIN 8	0201108	non-stantard	---	---
DIN 8 with Handle	0201109				


Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.

ZAHN cup (ASTM D4212)

	Model	Order Code	Time (s)	Range (cSt)	Calibration Oils
	ZAHN 1	0201806	20-80	5-60	C20
	ZAHN 2	0201805		20-250	C60
	ZAHN 3	0201803		100-800	C100
	ZAHN 4	0201801		200-1200	C100
ZAHN 5	0201802	400-1800		C350	




Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.

AFNOR cup (NFT30-014)

	Model	Order Code	Time (s)	Rango (cP)	Calibration Oils
	AFNOR 2,5	0201850	30 - 250	5 a 100	---
	AFNOR 4	0201851	20 - 300	50 a 1100	---
	AFNOR 6	0201852	30 - 300	510 a 5100	---

Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.

Accessories

Calibration Oils				Tripod for cups	Cronometer	
	Model	Order Code	(cSt)			
	C10	0202507	17			
	C20	0202511	34			
	C60	0202510	120			
	C100	0202513	230			
C200	0202514	460		Order Code SE-7001021	Order Code SP-810013R	
				Adjustable feet and bubble level	Timer / Hour / Alarm Range: 24 hrs. Resolution: 1/100seg	

Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.

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