

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 3 con Certificado*	0201930			
	ISO 4	0201902	30-100	34-135	C60
	ISO 4 con Certificado*	0201900			
	ISO 5	0201903	30-100	91-326	---
	ISO 6	0201904	30-100	188-684	C100
ISO 6 con Certificado*	0201910				


*Note: Traceable Calibration Certificate. / For "ENAC" Calibration Certificate request order code ZPEX034. Unless 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 con Certificado*	0201262			
	FORD 2 con Asa	0201050	20-100	49-220	C60
	FORD 3	0201230			
	FORD 3 con Certificado*	0201261			
	FORD 3 con Asa	0201020	20-100	70-370	C60
	FORD 4	0201240			
	FORD 4 con Certificado*	0201260			
	FORD 4 con Asa	0201000	20-85	200-1200	C200
	FORD 5	0201250			
	FORD 5 con Asa	0201010	non-standart	---	---
	FORD 6	0201270			
	FORD 6 con Asa	0201030	non-standart	---	---
FORD 8	0201280				
FORD 8 con Asa	0201040				


*Note: Traceable Calibration Certificate. / For "ENAC" Calibration Certificate request order code ZPEX034. Unless non-standard cups.

DIN cup (DIN 53211-85)

	Model	Order Code	Time (s)	Range (cSt)	Calibration Oils
	DIN 4	0201106	20-80	25-120	C60
	DIN 4 con Certificado*	0201101			
	DIN 4 con Asa	0201100			
	DIN 6	0201107	non-standart	---	---
	DIN 6 con Asa	0201105			
	DIN 8	0201108	non-standart	---	---
DIN 8 con Asa	0201109				


*Nota: Certificado de Calibración Trazable. Si se desea un Certificado "ENAC" solicitar el código ZPEX034. Salvo Copas fuera de norma.

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


Note: For "ENAC" Calibration Certificate request order code ZPEX034.

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	---

Note: Traceable Calibration Certificate available. / For "ENAC" Calibration Certificate request order code ZPEX034. Unless 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 Adjustable feet and bubble level	Order Code SP-810013R Timer / Hour / Alarm Range: 24 hrs. Resolution: 1/100seg