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 thiroxotropy 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  $\upsilon$ , consequently  $\upsilon = \mu/\rho$ . Some of the units to express it are m2/s, stoke (St) and centistoke (cSt), with the following equivalences: 1 m2/s = 10000 St = 1x106 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	25 420	620	
FORD 2 with Handle	0201050	40-100	25-120	C20	
FORD 3	0201230	20-100	49-220	050	
FORD 3 with Handle	0201020	20-100	49-220	C60	
FORD 4	0201240	20-100	70.270	660	
FORD 4 with Handle	0201000	20-100	70-370	C60	
FORD 5	0201250	20.05	200 4200	6200	
FORD 5 with Handle	0201010	20-85	200-1200	C200	
FORD 6	0201270	non stantard			
FORD 6 with Handle	0201030	non-stantard	<del></del>		
FORD 8	0201280	non-stantard			
FORD 8 with Handle	0201040				

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

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# **DIN cup** (DIN 53211-85)

	Model	Order Code	Time (s)	Range (cSt)	Calibration Oils
	DIN 4	0201106	20-80	25 690	C60
	DIN 4 with Handle	0201100	20-80	25-680	
	DIN 6	0201107	non stantard		
	DIN 6 with Handle	0201105	non-stantard		
	DIN 8	0201108	non stantard		
	DIN 8 with Handle	0201109	non-stantard		
DIN 23H					
Import 6 010, 52211 2401.056					
4					

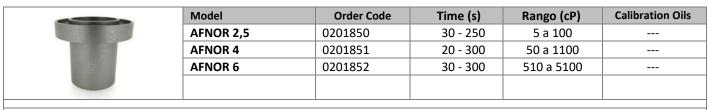
Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.

### ZAHN cup (ASTM D4212)

0	Model	Order Code	Time (s)	Range (cSt)	Calibration Oils
	ZAHN 1	0201806		5-60	C20
	ZAHN 2	0201805		20-250	C60
	ZAHN 3	0201803	20-80	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)



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

### **Accesories**

Calibration Oils				Tripod	for cups	Crond	ometer	
						***************************************		
	Model	Order Code	(cSt)			Commercial Control of		
	C10	0202507	17	1, 1				
(m) the second	C20	0202511	34			-		
Committee of the Commit	C60	0202510	120			<b>(</b>		
	C100	0202513	230	Order Code	SE-7001021	Order Code	SP-810013R	
25-	C200	0202514	460	Adjustable feet and bubble level		Timer / Ho	Timer / Hour / Alarm	
						Range: 24 hrs. Resolution: 1/100seg		
Optional: SER-CE034 ENAC Calibration Certificate for viscosity cups. Also, non-standard cups.								