NEURTEK
instruments

Viscosity Cups

your quality control instruments provider

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 υ, consequently υ = μ/ρ. 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	25-120	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.

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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.

Accesories

Calibration Oils

Model	Order Code	(cSt)
C10	0202507	17
C20	0202511	34
C60	0202510	120
C100	0202513	230
C200	0202514	460

Tripod for cups

Order Code	SE-7001021

Adjustable feet and bubble level

Cronometer

Order Code	SP-810035A

Timer / Hour / Alarm
Range: 12/24 hrs. Resolution: 1/100seg

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

Viscosity Pattern

It is a double anodized aluminum jacket, with built-in bubble level. The jackets are perfect for tempering (with cold or hot liquids) the container with the product whose viscosity is to be tested.

Two models are available:

References	
0201310	FORD / DIN thermal sleeve for viscose cups
0204300	Thermal sleeve for ISO viscose cups

Tripod with automatic counter

- High-quality flow timer.
- Suitable for various cup sizes and brands (DIN, ISO, FORD...).
- Optical/contactless fluid detector.
- Fast, precise, reproducible response time.
- Automatic start/stop with drip detection.
- Dynamic light compensation.
- Comparison of flow time with previous measurement.
- Automatic shutdown after 5 min.

References	
0201300	Electronic Flow timer for viscosity cups

Optional: SER-CE034 ENAC Calibration Certificate for Viscosity Cups.

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