

VISCOSITY CUP ZAHN (IMMERSION)

VF2226, VF2227, VF2228, VF2229, VF2230

DATASHEET

PRODUCT DESCRIPTION

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 using a viscosity disc calculator. Dip cups can be used to provide a quick viscosity measurement on the shop floor or on site.

**BUSINESS**

Laboratory, manufacture

STANDARDS

Complies with: ASTM D 1084, D 4212. Look up the appropriate standard for a correct execution of the test.

FEATURES

- Each cup has a long handle to allow the cup to be dipped by hand into a liquid container, which makes it easy to quickly check and adjust the viscosity of many different type of liquids.
- The design of the cup and orifice eliminate hard to clean recesses.
- TQC viscosity cups are made under the continuing quality control procedures.
- Each cup is provided with an engraved unique serial number.

SCOPE OF SUPPLY

- Each viscosity cup comes with a hard plastic storage case, with protective soft material on the inside.

ORDERING INFORMATION

VF2226	TQC Viscosity Cup ASTM D1084 D4212 Immersion Zahn Type: ZC, made of stainless steel, with fixed stainless steel nozzle, orifice No. 1
VF2227	TQC Viscosity Cup ASTM D1084 D4212 Immersion Zahn Type: ZC, made of stainless steel, with fixed stainless steel nozzle, orifice No. 2
VF2228	TQC Viscosity Cup ASTM D1084 D4212 Immersion Zahn Type: ZC, made of stainless steel, with fixed stainless steel nozzle, orifice No. 3
VF2229	TQC Viscosity Cup ASTM D1084 D4212 Immersion Zahn Type: ZC, made of stainless steel, with fixed stainless steel nozzle, orifice No. 4
VF2230	TQC Viscosity Cup ASTM D1084 D4212 Immersion Zahn Type: ZC, made of stainless steel, with fixed stainless steel nozzle, orifice No. 5

ACCESSORIES

VF2231	Test certificate, type M, according to DIN 55350 cup type ZC.
DI0076	Stopwatch Type C510 digital LCD-display, 9h. 59 min. 59,99 sec.
VF2053	Viscosity Conversion Disc

SPECIFICATIONS

Cup:	stainless steel, 44.0 cm ³
Nozzle:	stainless steel, fixed
Handle:	stainless steel.
Complies with:	ASTM D 1084, ASTM D 4212
Weight:	135-137 gram*
Cup width:	36 mm
Cup height:	62.5 mm
Max. Width:	50 mm
Total height:	330 mm
*(depending on orifice)	

Art. No	Product descr.	Ø Orifice (mm)	Viscosity Range * (cSt)	Flow Time* (sec)	Type of materials
VF2226	No 1	2.0	max. 60	35-80	Very thin liquids
VF2227	No 2	2.7	20-250	20-80	Thin oils, mixed paints, lacquers
VF2228	No 3	3.8	100-800	20-80	Medium oils, mixed paints, enamels
VF2229	No 4	4.3	200-1200	20-80	Viscous liquids and mixtures
VF2230	No 5	5.3	400-1800	20-80	Extr. Viscous liquids and mixtures

* For information purposes only; all approximate values at 25 °C

USE

- According to the standard all measurements should be made at 25°C. Temperature drift during the test should be kept to a minimum and should not exceed $\pm 0,2$ °C. Adjust the temperature of the material to be measured if necessary.
- Select the proper orifice to be used from the specification table, which depends on the expected viscosity range of the material to be measured. Lower the cup into the material so that the top rim is submerged.
- Place a thermometer into the cup as it is immersed and determine the temperature of the confined sample.
- Remove thermometer.
- Hold cup vertically by inserting index finger into handle ring. In a quick, steady motion, lift the cup out of the sample material, starting the timer when the cup breaks the surface. During the flow time, hold the cup no more than 15 cm above the level of the sample material.
- Stop the timer when the first definite break in the stream at the base of the cup is observed.

SPECIAL CARE

- With reasonable care, a viscosity cup is constructed to give many years of satisfactory service. To clean the instrument, use a soft cloth, NEVER clean by any mechanical means, such as steel brushes, sandpaper or other abrasive tools.
- Particular care should be used in cleaning the orifice to avoid leaving deposits or scratches on internal surfaces.
- It's recommended to clean the cup promptly after each use, unless it will be used immediately for a rerun of the same material

SAFETY PRECAUTIONS

Determining viscosity may involve hazardous materials, operations and equipment. It is the responsibility of the executor to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to the measurement.

DISCLAIMER

The right of technical modifications is reserved.

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