

TQC IMMERSION VISCOSITY CUPS ACCORDING/SIMILAR TO ISO 2431

VF2089, VF2090, VF2091, VF2185, VF2092, VF2093

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.

**STANDARDS**

Compatible with/ similar to ISO 2431

APPLICATION / APPLICATION AREA'S

Laboratory, manufacture

**FEATURES**

- Each cup has a long loop 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.

STANDARD DELIVERY

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

OPTIONAL ITEMS

- VF2210** Test certificate, type M, for cup type T1 3,4, 5 and 6 mm
- DI0076** Stopwatch Type C510 digital LCD-display, 9h. 59 min. 59,99 sec.
- VF2053** Viscosity Conversion Disc

USE

- According to the standard all measurements should be made at 23°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.

TECHNICAL DATA

Immersion Viscosity Cup Type TI

Cup: titanium anodized aluminium,
Nozzle: stainless steel, fixed
Handle: stainless steel.
Comp. with: ISO 2431 (3,4,5,6)
Weight: 281-282 gram*
Max. Width: 74 mm
Cup width: 64 mm
Cup height: 84 mm
Total height: 250 mm
*(depending on orifice)

Article Number	Product Descr.	Ø Orifice (mm)	Viscosity Range (cSt)	Flow times (sec)
VF2089	2	2		
VF2090	3	3	7-42	30-100
VF2091	4	4	34-135	30-100
VF2185	5	5	91-326	30-100
VF2092	6	6	188-684	30-100
VF2093	8	8	600-2000	30-100

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

Immersion Viscosity Cup Type TFR

Cup: stainless steel, 100 cc
Nozzle: stainless steel, fixed
Handle: stainless steel.
Comp. with: ISO 2431 (3,4,6)
Weight: 746-755 gram*
Max. Width: 74 mm
Cup width: 64 mm
Cup height: 84 mm
Total height: 250 mm
*(depending on orifice)

Article Number	Product Descr.	Ø Orifice (mm)	Viscosity Range (cSt)	Flow times (sec)
VF2220	2	2		
VF2221	3	3	7-42	30-100
VF2222	4	4	34-135	30-100
VF2224	6	6	188-684	30-100
VF2225	8	8	600-2000	30-100

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

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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