

Брошюра на продукцию Norcross

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ABOUT THE NORCROSS SHELL CUP VISCOMETER

The **Shell Cup** is a simple, reliable device for measuring the viscosity of a wide range of fluids. Originally developed for use with printing inks, it has found widespread applications as diverse as fuel oil and industrial finishes — for calibrating other viscosity sensors as well as for primary measurements.

The cup was developed by Shell Development Company and is marketed by Norcross Corporation.



Viscosity Measurement with The Shell Cup

The conversion table indicates the useful range for each size. The measurement is accomplished as follows:

1. Submerge the cup in the fluid for approximately 30 seconds to allow the cup to come to sample temperature. The sample must be representative — thoroughly stirred for example, and at a known, preferably standard temperature.
2. Lift the cup vertically out of the fluid, starting the stopwatch as the cup breaks the surface.
3. Record the time required for the cup to empty, stopping the watch when the stream breaks.
4. Read the viscosity from the appropriate conversion charts or calibration drawings.

ABOUT PROCESS VISCOSITY MEASUREMENT AND CONTROL

NORCROSS has been measuring the viscosity of numerous different processes for over 60 years.

As shown on the front of this conversion table, we have sensors for measuring viscosity in open tanks, closed tanks, pressurized tanks and inside pipe lines.

We can measure viscosity at different pressures, flows, temperatures and viscosity ranges.

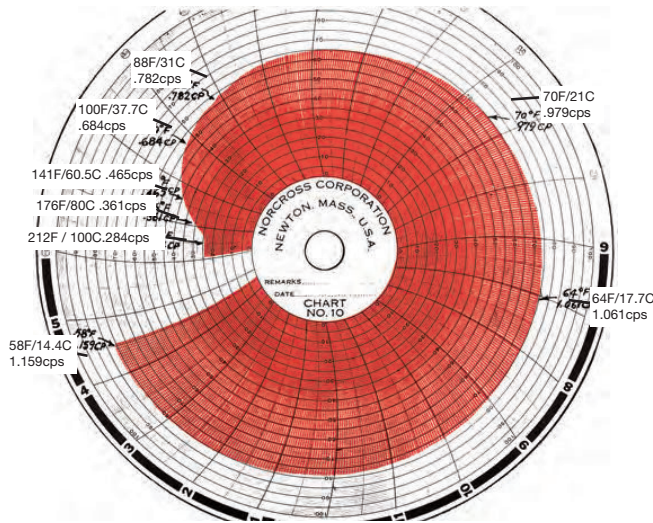
The MP2000 can act as a controller and/or transmitter. Full two way RS485 communication is standard in the MP2000. Optional 4-20mADC output is available.

ABOUT NORCROSS SENSITIVITY AND ACCURACY

The 24hr circular chart, shown here, is an actual recording obtained with NORCROSS Viscometer.

This recording starts with boiling water 212°F/100C, which is then allowed to cool.

The viscosity was recorded every three minutes during the cooling period. A few measured temperatures, together with corresponding centipoise viscosities, obtained from tables published by the Bureau of Standards, are shown.



This chart illustrates the outstanding sensitivity of the NORCROSS Falling Piston Viscometer. This sensitivity, which only the NORCROSS Process Viscometer can produce, combined with the simplicity and ruggedness of all NORCROSS units, create a versatile and long lasting viscosity sensor/system.

NORCROSS Viscosity Sensors and/or Viscosity Control Systems are designed to provide years of reliable operation.



Product Overview & Viscosity Conversion Table

Viscosity Sensors



Model M8B
In Tank
Sensor
(0.1-100,000
cps)

Model M8BO
In Tank
Sensor
(0.1-100,000
cps)

Model VTS
In Line
Sensor
(0.2-200 cps)

Model MXBO
In Tank
Sensor
(0.1-100,000
cps)

Model M51
True In-Line
Applications
(0.1-2,000 cps)

Viscosity Controllers



VISION 10
Touch Screen PLC



VUE 100/ 200
Touch Screen PLC



Model MP3000
Advanced Programmable
Viscosity/pH Controller



**Shell Cup
Viscometer -**
For hand testing
viscosity in open
tanks/containers.
(1-1200 cps)

Other cups available
within range
0.3 cps-7,000 cps

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