

# Capillary viscometer RHEOTEST® LK 2.2

patented Capillary viscometer for quick and precise viscosity measuring

## Applications

- beer and worts
- paints and inks
- slurries
- hydraulic oils and lubrication oils
- polymer solutions
- milk, drink jogurt and juices



## Following basic versions can be offered:

**Basic version RHEOTEST® LK 2.2 without temperature control jacket for e.g.:**

- Beer and wort
- Milk, drink jogurt
- Inks, paints, slurries

- viscosity fluctuations caused through temperature fluctuations near room temperature are corrected to a reference temperature through the electronic viscosity-temperature-compensation



**Basic version RHEOTEST® LK 2.2 with temperature control jacket for e.g.:**

- Hydraulic oils and lubricating oils
- Silicone solutions
- Polymer solutions

- additional a double walled special cup with 30 ml aluminium measuring cups can be delivered



**PC-controlled, automated viscosity measuring place**

- For laboratories with daily more than 15 measurements

- consists of basic version RHEOTEST® LK 2.2 without temperature control jacket
- sampler for 20 samples



## Features

- user-friendly operation by only 4 keys or by PC
- robust unit design and tough stainless steel measuring systems
- viscosity range: 1 ... 10 000 mPas
- easy calibration and cleaning of measuring systems
- quick results after only 25 sec on display or PC
- integrated electronic viscosity-temperature-compensation
- special temperature control jacket for sample temperature within temperature range - 10 ... + 80°C available  
PC-controlled, automated viscosity measuring place for 20 samples available

## User benefits

- the viscometer can be used directly in production rooms through its easy handling and its compact construction with stainless steel measuring systems
- already internal existing quality standards, based on other measuring methods can be used furthermore, because the RHEOTEST® LK can be calibrated easy and quickly to such other measuring values
- an additional temperature control unit can be saved, if viscosity measurement is realized near room temperature. The viscosity-temperature-compensation calculates exact viscosity values to a reference temperature in a temperature fluctuation range of appr.  $\pm 5$  K. On display are showed in mPas as well as the measured viscosity at actually temperature and the calculated viscosity at reference temperature
- corresponding thermostating units for sample temperature are available
- Slurries or other samples with sedimentation properties can be measured with very well reproducibility, because our used difference pressure measuring method is not important influenced through sedimentation effects
- Number of measuring cycles and averaging are free selectable. Therefore the reproducibility of the measuring result can be yet increased
- The RHEOTEST® LK can be delivered as well as in „one point calibration“ or „two point calibration“. Especially in a measuring range up to 10 mPas we suggest a „two point calibration“ to increase yet the measuring accuracy
- At demand, the capillary viscometer can be controlled by a PC. In such case please order our special windows software for PC-controlled tests

**We also offer different types of process viscometers for continuous viscosity control during the manufacturing process. You will find more information at our homepage:**

**[www.rheotest.de](http://www.rheotest.de)**

## Worldwide successful in application

- **beer and worts**  
Warsteiner / Beck & Co. / Krombacher / Jever / Kronenbourg France / Schincariol Brazil / Malteurope Germany, France, Ukraina / Cargill Germany, Netherlands
- **paints and inks**  
Compedo Tinten / German Hardcopy / Interkat GmbH / Giovanni Bozzetto Italy / Vlisco Netherlands
- **slurries**  
LG Philips Netherlands, Brazil, Mexico, Czech Republic / Samsung SDI Korea / Vivoxid Finland / Wacker Siltronic, Wacker Chemie
- **hydraulic oils and lubrication oils**  
Energiewerke Nord, Forschungszentrum Karlsruhe
- **polymer solutions**  
BASF / Bayer AG / H.C. Starck / Cabot Nanogel / Braun GmbH / Hoesch Rothe Erde / Plate Stahl / Oman Cables / LG Chemicals Korea
- **milk and juices**  
Hochwald Thalfang/ Humania Milchunion / Nordbrand GmbH / Nestle Research Center Switzerland / Sao Paulo University Brazil

## Selected technical data

- |  |       |         |          |                          |
|--|-------|---------|----------|--------------------------|
| • Viscosity measuring ranges:                                    |       |         |          |                          |
| Capillary 1  | appr. | 1       | ...      | 16,2 mPas                |
| Capillary 2  | appr. | 5       | ...      | 100 mPas                 |
| Capillary 3  | appr. | 20      | ...      | 400 mPas                 |
| Capillary 4  | appr. | 100     | ...      | 2 000 mPas               |
| Capillary 5  | appr. | 500     | ...      | 10 000 mPas              |
| Special capillary 6, individual measuring range, f.e.:           | appr. | 1 to 3, | 1 to 10, | 5 to 35 mPas             |
| • Relative error (% of limit value of partial measuring range):  |       |         |          | ≤ 2 %                    |
| • Reproducibility (% of limit value of partial measuring range): |       |         |          | ≤ 1 %                    |
| • Temperature range of the measuring substance:                  |       |         |          | - 10 ... + 80 °C         |
| • Serial interface connection:                                   |       |         |          | RS 232 for printer / PC  |
| • Operating voltage (please ask for special voltage):            |       |         |          | 230 V ± 10%              |
| • Operating frequency (please ask for special frequency):        |       |         |          | 50 / 60 cycles           |
| • Dimensions: (length x depth x height):                         |       |         |          | appr. 200 x 200 x 600 mm |
| • Weight:  |       |         |          | appr. 12.5 kg            |
| • Necessary sample volume:                                       |       |         |          | appr. 25 ml              |

Medingen – traditional location for viscometers and rheometers for more than 80 years

RHEOTEST Medingen GmbH

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