# 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.:**

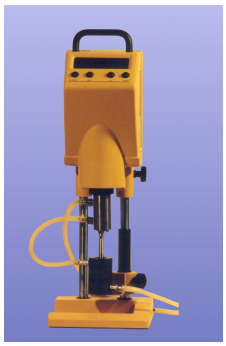
- **Beer and wort**
- **Milk, drink jogurt**
- **Inks, paints, slurries**

- viscosity fluctuations caused through temperature fluctuations near room temperature are corrected to a reference tempera-ture 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**

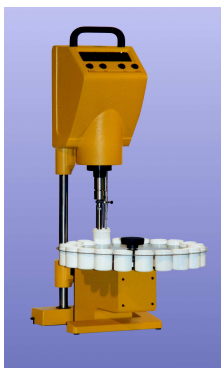
- additional a double walled special cup with 30 ml aluminium measuring cups can be delivered



**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



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## 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 temperation within temperature range - 10 … + 80°C available
  PC-controlled, automated viscosity measuring place for 20 samples available

## User benefits

- he 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. ± 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 temperation 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 continous viscosity control during the manufacturing process. You will find more information at our homepage:**

**www.rheotest.de**

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## 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 hight): 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

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