



FALLING BALL VISCOMETER KF10 (DIN 53015)



The Falling Ball Viscometer KF10 is based on the measuring principle by Høepler. It enables simple but precise measurements of the dynamic viscosity of light-transmissive Newtonian liquids. It is preferably used in research, in processing control and in quality control.

For the measurement of low viscosities and for the control of pseudoplastic behaviour the measuring range (DIN 53015) is extended by optional adjustment of the working angle.

A special glass ball is added for measuring the viscosity of gases and vapours.

TECHNICAL DATA

Viscosity range	0.5 to 7 x 10 ⁴ mPa s
for running time of the ball less than 300 s	> 7 x 10 ⁴ mPa s
with glass ball for gases	< 0.5 mPa s
Accuracy of measurements	0.5 to 2 % (dependent on ball used)
Material of balls	balls 1–2 borosilicate glass
	balls 3–4 Ni-iron
	balls 5–6 steel
Diameter of balls (DIN 53015)	11.00 to 15.81 mm
Diameter of special ball	15.91 mm
Diameter of measuring tube (DIN 53015)	15.95 mm
Running time of balls	30 to 450 s
Length of measuring distance	100 mm (50 mm) in both running directions
Working angle	according to DIN (10 % vertical)
Extended working angles	70°, 60°, 50° towards level
Temperature range	-60°C to 150°C
Filling volume	40 ml
Dimensions (width, height, length)	180 x 220 x 330 mm
Weight	30 N (3.1 kg)

APPLICATION

Petroleum industry

- ↳ light crude
- ↳ machine oil
- ↳ crude petroleum

Fuels

- ↳ petrol
- ↳ diesel oil
- ↳ paraffin

Paper industry

- ↳ emulsions
- ↳ pigment dispersions
- ↳ paper additives

Polymer chemistry

- ↳ polymer solutions
- ↳ resin solutions
- ↳ adhesive solutions
- ↳ latex dispersions

Paints and varnishes

- ↳ printing inks
- ↳ varnishes
- ↳ water lacquers
- ↳ inks

Detergents

- ↳ liquid washing agents
- ↳ washing-up liquids
- ↳ tenside solutions

Cosmetic/Pharmacy

- ↳ emulsions
- ↳ suspensions
- ↳ solutions
- ↳ extracts

Food industry

- ↳ honey
- ↳ fruit juice
- ↳ beer
- ↳ milk

Gases and gas mixtures

DELIVERY

Falling ball viscometer with ball set and 1 ball gauge
Control thermometer (glass) 0 to 100 °C

ACCESSORIES AND PERIPHERAL EQUIPMENT

Accessories for measuring the viscosity of gases

- ↳ special ball
- ↳ glass tap
- ↳ rubber stopper

Special accessories

- ↳ ball collecting device for emptying the drop tube
- ↳ glass filter

Glass thermometer for special ranges of temperature

- | | | |
|-----------------|--------------|---------------|
| ↳ -61 to -19 °C | 0 to 100 °C | 39 to 61 °C |
| ↳ -21 to 1 °C | 19 to 21 °C | 59 to 81 °C |
| ↳ -1 to 21 °C | 19 to 41 °C | 29 to 101 °C |
| ↳ | 99 to 126 °C | 124 to 151 °C |

Liquid thermostat

Normal and calibrating liquids

Stop watch for time measurements (0,01 s)

rheotec



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