



No.2285

Zahn cup

This instrument is used for measuring viscosity of gravure printing ink, etc. The cup is immersed in the subject liquid. On pulling up the cup from the liquid, start the stopwatch to measure the time till the liquid is completely discharged from the cup.

Select a suitable cup so that the time length may be within 20 to 40 seconds.

<Guide for selection of discharge orifice>

Cup	Orifice diameter	Measurement range (cSt)
2	2mm	approx. 0 to 70
3	3mm	approx. 20 to 250
4	4mm	approx. 80 to 700
5	5mm	approx. 200 to 1000
6	6mm	approx. 400 to 2000
7	7mm	approx. 900 to 3000

Outer dimensions: 40 x 40 x 350mm

Instrument weight: 100g



No.2288

Parallel-plate viscometer (spread meter)

The spread meter is one of methods for measuring fluidity of lithography and letterpress printing inks. This instrument is used to determine "spread" of ink. Test principle: a certain amount of ink is placed between two parallel plates, to deform the ink by dead weight of the plates. Along with time elapsed, the ink spreads in circular shape. With increase of the circular area, pressure applied on the ink decreases. After a certain length of time, the diameter of the spread ink is measured. Yield value is determined from the ink spreading speed.

Glass plate dimensions: 150 × 100 × 3mm

Glass plate weight: 115 ± 1g

Specimen hole size: 10 ± 0.03mm in inner diameter

Specimen hole volume: 0.5cm³

Referential standard: JIS K-5701-2000

Outer dimensions: 150 × 100 × 160mm

Instrument weight: 2kg