

PRESSROOM TESTING INSTRUMENTS · PRODUCT DATASHEET

Viscosity DIN Cups

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CATEGORY	Pressroom Testing Instruments
SUB-CATEGORY	Others
AVAILABILITY	1 in stock
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Description

Viscosity is a critical property in determining the flow behavior of liquids such as paints, coatings, varnishes, lacquers, and inks. One of the most commonly used methods to measure viscosity in these industries is the DIN Cup #4 (in accordance with DIN 53211 standard). DIN Cup #4 is favored for its simplicity, cost-effectiveness, and repeatability, making it ideal for routine quality control, batch consistency verification, and process monitoring in manufacturing environments. However, it's important to note that while DIN Cup measurements are convenient, they provide only an empirical value—not an absolute viscosity—and should be correlated with other standardized methods (such as Brookfield or Zahn) if precise rheological data is required.

Technical specification

- **Standard Compliance:** DIN 53211
- **Cup Material:** Hard anodized aluminum or stainless steel for chemical resistance
- **Nozzle Material:** Precision stainless steel (removable or fixed, depending on model)
- **Orifice Diameter:** 4.00 ± 0.02 mm (strict tolerance for accuracy)
- **Volume Capacity:** ~100 mL (may vary slightly depending on design)
- **Flow Time Range:** ~15 to 60 seconds typical (can vary outside depending on fluid)
- **Viscosity Range:** ~30 – 1000 cSt (centistokes)
- **Operating Temperature:** Standard: $23^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ (temperature has significant effect on results)
- **Measurement Unit Seconds:** (time to empty the cup through the orifice)
- **Surface Finish:** Polished interior to prevent bubble formation or material retention
- **Mounting Options:** Can be handheld or placed on a **leveling stand** for precision
- **Drain Mechanism:** Gravity-fed, no external pressure
- **Cleaning Method:** Solvent rinse and brush or ultrasonic cleaning

- **Calibration:** Use of certified viscosity calibration oils at controlled temperature

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