

VISCOSITY CUP - B4

Flow Cup Viscometer (OPT 1721)

LABAIDS Flow cup viscometers consist of a brass cylinder / cup of fixed volume with an SS orifice of specified dimensions at the bottom. These are crude measurement devices used for the measurement of the kinematic viscosity / relative consistency of paints, inks, varnishes, lacquers, and other viscose products etc. Measurements are normally taken at 20°C approximately. Types of flow cups encountered include Zahn, Ford, Shell and ISO. Formulas available in the relevant standards give the relationship between efflux time and the kinematic viscosity.

The use of flow cups for the determination of kinematic viscosity is limited to Newtonian or near Newtonian liquids. Newtonian Fluid is one in which the ratio of shear stress to the rate of shear is constant. Examples are water and thin motor oils. Near-Newtonian fluid is one in which the variation in viscosity with shear rate is small and the effect on viscosity of mechanical disturbances such as stirring is negligible.

These cups are supplied complete with level adjustment stand and are available in different standards like IS 3944, IS 101, BS3900, DIN 53211, ASTM D1200.

Commonly used Flow Cups as per BS3900 are as below:

Flow Cup	Orifice Diameter	Viscosity Range (Centistokes)	Flow Times
B2	2.38mm (0.09")	38-71cSt	30-300 Secs
B3	3.17mm (0.12")	38-147cSt	
B4	3.97mm (0.16")	71-455cSt	
B5	4.76mm (0.19")	299-781cSt	
B6	7.14mm (0.28")	781-1650cSt	

Optional Accessories (at extra cost):

Stop Watch, Thermometer, and Calibration Certificate.



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