

SEDIMENTATION BY THE HYDROMETER METHOD

Client

Project

Test Method BS1377-2: 1990: Clause 9.5

Date Tested :

Sample Ref. :

CALIBRATION AND SAMPLE DATA:

Hydrometer No.	
Meniscus Correction, C_m	
Reading in Dispersant, R_o'	
Dry Mass of Soil, m (g)	
Particle Density (Measured / Assume), ρ_s (Mg/m ³)	
Viscosity of Water at 25 °C , η (mPa.s)	

$$\text{Particle Diameter, } D = 0.005531 \sqrt{\frac{\eta H_R}{(\rho_s - 1)t}}$$

$$\text{Percentage Finer Than D, } K = \left[\left\{ \frac{100 \rho_s}{m (\rho_s - 1)} \right\} R_d \right]$$

HYDROMETER TEST DATA

Date	Time	Elapsed Time, t (min)	Temperature, T (°C)	Hydrometer Reading, R_h'	True Reading, R_h ($R_h' + C_m$)	Effective Depth, H_R (mm)	Modified Reading, R_d ($R_h' - R_o'$)	Particle Diameter, D (mm)

Tested by:

Checked by:

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Date:

Date: