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CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE, INDIA

Course Name : Basics of Civil Engineering and Engineering Mechanics Laboratory
Course Code : CE134/234

Experiment No 3 : Determination of Fineness of Cement.

- **Aim / Objective** : To determine the fineness of the given cement sample

- **Equipments Used** : IS 90 micron sieve, digital weighing machine and cement sample .

Theory

- **The fineness of cement has an important bearing on the rate of hydration and hence on the rate of gain of strength and also on the rate of evolution of heat. Finer cement offers a greater surface area for hydration and hence faster the development of strength.**

Procedure

1)Weigh about 100gms of given cement sample ,W1

2) Place it on 90micron sieve and cover it with a lid and pan at the bottom

3)Carry out process of sieving such that each and every particle undergoes the process of sieving

4) Note down the weight retained on 90 micron sieve,W2

5) Calculate the fineness of of the cement sample using the formula.

Observations & Calculations

Particulars	Trial 1	Trail 2	Trial 3
Weight of sample taken W1	100grams	100grams	100grams
Weight retained on 90 micron sieve,W2	6	4	5
Fineness of cement			

The fineness of cement is calculated as follows

Fineness of Cement = (W2 / W1)*100

Result: The fineness of given cement sample is _____%

THANK YOU