

EXPERIMENT NO. 1

DETERMINATION OF FINENESS OF CEMENT BY SIEVING

Theory: Cement is obtained by grinding various raw materials after calcination. The degree to which cement is ground to smaller and smaller particles is called fineness of cement. The fineness of cement has an important role 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 the faster development of strength although the ultimate strength is not affected. Fineness also provides more cohesiveness to concrete and avoid separation of water at the top of concrete (called bleeding). However, increase in fineness of cement increases the drying shrinkage and cracking of the concrete.

Fineness of cement is tested either by sieving or by determination of specific surface using air-permeability apparatus. The specific surface is defined as the total surface area of all the particles in a unit weight of cement. Although determination of specific surface is more accurate, fineness of cement is mostly tested by sieving except for specific purpose. In concrete sieving is most commonly used method to determine fineness of cement and is quite good for field works.

Objective: Determination of fineness of cement by dry sieving.

Reference: IS 4031 (Part-1):1988.

Apparatus: IS-90 micron sieve conforming to IS: 460 (Part 1-3)-1985; Weighing balance; Gauging trowel; Brush.

Material: Ordinary Portland cement

Procedure:

CONCRETE LABORATORY MANUAL

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A CIVIL ENGINEERING BOOK

Asphalt Concrete Laboratory Manual

Leslie Abram Waterbury



Asphalt Concrete Laboratory Manual:

A Laboratory Manual of Inorganic Chemistry John Bernard Ekeley, 1912 **Laboratory Manual for the Use of Students in Testing Materials of Construction** Leslie Abram Waterbury, 1912 **Technical Education Program Series No. 8** United States. Education Office, 1966 **A Laboratory Guide to Qualitative Analysis with the Blowpipe** Fernando Wood Martin, 1903 **A Manual of Practical Assaying** Howard Van Fleet Furman, 1910 *Asphalt Materials and Mix Design Manual* Irving Kett, 2012-12-02

The purpose of this manual is to familiarize industry and students with the technology of asphalt in its several forms namely asphalt cement cutback asphalt and asphalt emulsions The laboratory work is designed to develop an understanding of asphalt properties characteristics testing procedures and specifications The procedures outlined are all derived from ASTM designations and practice as recommended by the Asphalt Institute Where the particular ASTM method permits alternate procedures the one more applicable to the available equipment and the teaching situation was chosen The manual consists of the following 35 of the frequently used ASTM tests in Asphalt Binder and Mix Design Sample computations and easy to use data sheets most of which have been developed specifically for the manual An up to date overview of Asphalt Technology including sources historical development and classifications of asphalt products Easy to understand explanations for Voids Mineral Aggregate Absorbed Asphalt Effective Asphalt Content Percent Air Voids and Percent of Voids filled with Asphalt A stand alone asphalt manual written specifically for university laboratory instruction yet applicable for a commercial testing laboratory Rarely will other reference materials need to be referred to Dimensions in both the SI and the US Standard systems of measurement An appendix with conversion factors rules of safety and procedures overview of SHRP SUPERPAVE explanation of asphalt emulsions and additional data sheets on single sided pages

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technology of surface dressing Since the last edition there have been significant strides in a number of key areas of asphalt technology These include the development of new mixtures an improved understanding of the mechanisms by which pavements fail and the availability of high performance bitumens The Handbook has been fully revised to reflect these advances as well as updating the standard procedures and methods which are necessary nowadays for those involved in using asphalts in an environment of ever more demanding specifications Compiled by the Shell Bitumen European Technical Team The Shell Bitumen Handbook is intended to be of daily use to civil engineers in pavement construction and maintenance and also to students and researchers Civil Technology United States. Division of Vocational and Technical Education,1966 **Airfield Pavement Evaluation** ,1953 *TFHRC Achievement Report* ,1993

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