

## CRUSHING TEST

**AIM:** To determine the aggregate crushing value of given aggregates.

### APPARATUS:

- Steel cylinder with open ends and internal diameter of 150mm with an appropriate plunger and piston.
- Cylindrical measure having internal diameter of 115 mm and height 180mm.
- Steel tamping rod with one rounded end having a diameter of 16mm and length 450 to 600mm.
- Balance with capacity 3kg with accuracy up to 1g.
- Compression Testing Machine capable of applying load up to 40 tonnes at a uniform rate of 4 tonnes/ minute.
- IS Sieve 12.5mm, 10mm and 2.36mm.

### THEORY:

Coarse aggregates used in pavement construction should be strong enough to resist crushing under rollers during compaction as well as due to heavy traffic loads. If the aggregates are weak, the performance of the pavement structure is likely to get affected. The strength of coarse aggregate or the resistance to crushing of the coarse aggregates under the applied load is generally assessed by conduction crushing test.

### PROCEDURE:

- The aggregates passing through 12.5mm and retained on 10mm IS Sieve are oven-dried at a temperature of 100 to 110°C for 3 to 4hrs.
- The cylinder of the apparatus is filled in 3 layers, each layer tamped with 25 strokes of a tamping rod.
- The weight of aggregates is measured.
- The surface of the aggregates is then levelled and the plunger inserted.
- The apparatus is then placed in the compression testing machine and loaded at a uniform rate so as to achieve 40t load in 10 minutes. After this, the load is released.
- The sample is then sieved through a 2.36mm IS Sieve and the fraction passing through the sieve is weighed.



Fig 1 AGGREGATE CRUSHING TEST APPARATUS

# Concrete And Highway Lab Manual Vtu

**P. D. Kulkarni,L. N. Mittal**



## **Concrete And Highway Lab Manual Vtu:**

**Government Reports Annual Index**, 1985      *Concrete Technology Lab Manual* John; Barnes Hormoth (Brian; Le Moine, Pete), 1999      **Laboratory Manual of Test Procedures, 2010** Colorado. Department of Transportation. Materials and Geotechnical Branch, 2010      *Highway Material Testing* S. K. Khanna, C. E. G. Justo, 1971      **Laboratory Manual in Concrete Technology** P. D. Kumbhar, 2014-12-15 Concrete is the most widely used man made product in the world and is second only to water as the world's most utilized substance It is an affordable and reliable material that is applied throughout the infrastructure of any nation's construction industrial transportation defence utility and residential sectors In its simplest form it is a mixture of cement paste and aggregates For producing quality concrete not only good quality ingredients are necessary but good rules in manufacturing concrete are also essential The quality of the ingredients is always judged in the laboratory by performing various tests on them by following standard procedures This manual has been prepared in order to impart efficient learning of student through outcomes based education suggested by ABET      *An Introduction to the Making and Testing of Plain Concrete* George Earl Troxell, Harmer E. Davis, 1938      **Illinois Department of Transportation Bureau of Materials & Physical Research Concrete Laboratory Procedure Manual** Illinois. Department of Transportation. Bureau of Materials and Physical Research, 2013      *Manual of Test Procedures for Materials* Illinois. Division of Highways. Bureau of Materials and Physical Research, 2004      *Principles of Concrete* Portland Cement Association, 1969      **Non Destructive Concrete Testing Lab Manual** Dhruv Saxena, Puneet Gaur, Akash Gupta, Dr Tarun Gehlot, 2023-03-21 Non Destructive Testing of Concrete Structures Laboratory Manual is a comprehensive guide designed to assist students researchers and professionals in understanding and conduct non destructive testing NDT on concrete structures This practical manual provides step by step instructions and detailed explanations of various NDT techniques commonly used for evaluating the integrity and quality of concrete It covers different methods including ultrasonic testing infrared thermography rebound hammer testing impact echo testing and ground penetrating radar The book emphasizes a hands on approach with each technique accompanied by clear diagrams and photographs Readers will learn how to prepare concrete samples operate the testing equipment interpret test results and draw conclusions about the structural health of concrete elements Furthermore the laboratory manual highlights essential considerations such as safety precautions limitations of each method and factors that may affect test results It also discusses the significance of NDT in assessing durability detecting defects and guiding repair and maintenance strategies for concrete structures Non Destructive Testing on Concrete Structures Laboratory Manual serves as an invaluable resource for civil engineering students researchers in structural assessment and professionals working in the construction and infrastructure industries It equips readers with the necessary knowledge and practical skills to effectively utilize NDT techniques and make informed decisions regarding the condition of concrete structures      *Laboratory Manual of Test Procedures, 2005* Colorado. Department of Transportation.

Materials and Geotechnical Branch,2005      Laboratory Manual In Highway Engineering Ajay. K. Duggal,1996-07-01 The Experiments Described In This Laboratory Manual In Highway Engineering Form An Integral Part Of The Curriculum For The Subject Of Highway Engineering For Both The Diploma And Degree Courses In Civil Engineering The Presentation Of Material Is Unfolded In Such A Way As To Make Teaching Learning Process Effective And Convenient Both To The Teacher As Well As To The Student To Start With At The Beginning Of Each Experiment The Student Will Appreciate The Real Life Significance Of The Work He Has To Perform And Subsequently Familiarise Himself With The Objectives To Be Achieved The Manual Is Complete In Itself Since In The Latter Part Of Each Experiment Space Is Provided To Record Observations Make Calculations Plot Graphs And Discuss Results To Promote Analytical Ability Questions For Discussions Have Been Stated At The End Of Each Experiment It Is Hoped That The Manual Besides Catering To The Requirements Of The Students Will Satisfy The Need Of Practising Engineers Engaged In Construction Of Highways In Providing Them With Useful Reference Material      **Laboratory Manual of Test Procedures, 2001 as Revised** Colorado. Department of Transportation.

Materials and Geotechnical Branch,2001      *Laboratory Manual for Concrete Technology* P. D. Kulkarni,L. N. Mittal,1985  
*Laboratory Manual of Test Procedures* Oregon. State Highway Division. Materials Laboratory,1998      *Material Testing Laboratory Manual* C B Kukreja,Kishore K. & Ravi Chawla,2006-01-01 Part 1 Cement Part 2 Cement Aggregates Part 3 Cement Concrete Part 4 Reinforced Concrete Part 5 Bricks Part 6 Timber Part 7 Steel Part 8 Building Lime Appendix

**Concrete Laboratory Manual** Jesse Neils Thompson,1973      **Laboratory Manual for Plain Concrete** Edward Ezra Bauer,1957      Highway Materials Neil A. Watkins,1967      *Highway Materials, Soils, and Concretes* Harold N. Atkins,2003

This clear concise text provides a user friendly introduction to the most current civil engineering and highway construction materials It covers the essentials of highway construction technology without getting bogged down with complicated mathematics excess theory or difficult language Topics covered in this book include soils aggregates pavement structure and base asphalt pavements and materials and Portland Cement Concrete as well as Stone Matrix Asphalt admixtures and whitetopping For civil engineers those in highway construction construction materials dealers and soil mechanics

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### **Table of Contents Concrete And Highway Lab Manual Vtu**

1. Understanding the eBook Concrete And Highway Lab Manual Vtu
  - The Rise of Digital Reading Concrete And Highway Lab Manual Vtu
  - Advantages of eBooks Over Traditional Books
2. Identifying Concrete And Highway Lab Manual Vtu
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Concrete And Highway Lab Manual Vtu
  - User-Friendly Interface
4. Exploring eBook Recommendations from Concrete And Highway Lab Manual Vtu
  - Personalized Recommendations
  - Concrete And Highway Lab Manual Vtu User Reviews and Ratings
  - Concrete And Highway Lab Manual Vtu and Bestseller Lists

5. Accessing Concrete And Highway Lab Manual Vtu Free and Paid eBooks
  - Concrete And Highway Lab Manual Vtu Public Domain eBooks
  - Concrete And Highway Lab Manual Vtu eBook Subscription Services
  - Concrete And Highway Lab Manual Vtu Budget-Friendly Options
6. Navigating Concrete And Highway Lab Manual Vtu eBook Formats
  - ePub, PDF, MOBI, and More
  - Concrete And Highway Lab Manual Vtu Compatibility with Devices
  - Concrete And Highway Lab Manual Vtu Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Concrete And Highway Lab Manual Vtu
  - Highlighting and Note-Taking Concrete And Highway Lab Manual Vtu
  - Interactive Elements Concrete And Highway Lab Manual Vtu
8. Staying Engaged with Concrete And Highway Lab Manual Vtu
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Concrete And Highway Lab Manual Vtu
9. Balancing eBooks and Physical Books Concrete And Highway Lab Manual Vtu
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Concrete And Highway Lab Manual Vtu
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Concrete And Highway Lab Manual Vtu
  - Setting Reading Goals Concrete And Highway Lab Manual Vtu
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Concrete And Highway Lab Manual Vtu
  - Fact-Checking eBook Content of Concrete And Highway Lab Manual Vtu
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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