



Designation: D 4373 – 96

Standard Test Method for Calcium Carbonate Content of Soils¹

This standard is issued under the fixed designation D 4373; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript symbol (n) indicates an editorial change since the last revision or approval.

1. Scope

1.1 This test method covers the quantitative determination of the calcium carbonate (CaCO_3) content of soils. It is a gasometric method that utilizes a simple portable apparatus. The test method is quickly performed for soils containing calcium carbonate.

Note 1—The presence of dolomite (CaMgCO_3) and reducing minerals such as sulfide and sulfite in the soil will interfere with the determination of the amount of CaCO_3 present. Therefore, this test method is an approximate method that determines the calcium carbonate equivalent.

1.2 The values stated in SI units are to be regarded as the standard.

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. For specific precaution statements, see Section 6.

2. Summary of Test Method

2.1 The calcium carbonate content of soil is determined by treating a 1-g dried soil specimen with hydrochloric acid (HCl) in an enclosed reactor vessel. Carbon dioxide gas is evolved during the reaction between the acid and carbonate fraction of the specimen. The resulting pressure generated in the closed reactor is proportional (see Fig. 1) to the carbonate content of the specimen. This pressure is measured with a Bourdon tube pressure gage, or equivalent pressure-measuring device, that is precalibrated with reagent grade calcium carbonate.

3. Significance and Use

3.1 This test method is used to determine the presence and quantity of calcium carbonate in a soil specimen. Calcium carbonates are known cementing agents, are water soluble at $\text{pH} < 7$, and are soft on the Mohs' scale compared to other soil minerals.

¹This test method is under the jurisdiction of ASTM Committee D 18 on Soil and Rock, and is the direct responsibility of Subcommittee D18.11 on Marine Geotechnics.

Current edition approved Dec. 10, 1996. Published June 1997. Originally published as D 4373 – 94. Last previous edition D 4373 – 94 (1995a).

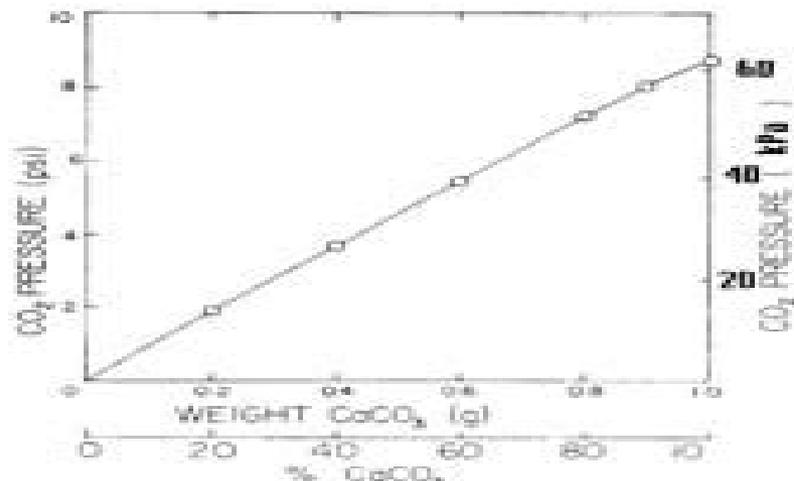


FIG. 1 Typical Calibration Curve for 0.374L Test Cell and 10 psi (69 kPa) Pressure Gage

4. Apparatus

4.1 **Rapid Carbonate Analyzer**—A schematic drawing of the rapid carbonate analyzer is shown in Fig. 2. The basic components of this apparatus include:

4.1.1 **Reaction Cylinder**, with threaded cap and O-ring seal to enclose the cylinder. A clear plastic cylinder allows viewing of effervescent reaction.

4.1.2 **Pressure Gage**, 10 ± 0.1 psi (70 ± 0.7 kPa).

4.1.3 **Container**, of clear plastic with a bail handle to hold 20 mL of acid.

4.1.4 **Pressure Relief Valve**, for safe release of CO_2 gas pressure.

4.2 **Balance**, with a sensitivity of 0.01 g.

5. Reagents

5.1 **Purity of Reagents**—Reagent grade chemicals shall be used in all tests. Unless otherwise indicated, it is intended that

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Table of Contents Standard Test Method For Calcium Carbonate Content Of Soils

1. Understanding the eBook Standard Test Method For Calcium Carbonate Content Of Soils
 - The Rise of Digital Reading Standard Test Method For Calcium Carbonate Content Of Soils
 - Advantages of eBooks Over Traditional Books
2. Identifying Standard Test Method For Calcium Carbonate Content Of Soils
 - 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 Standard Test Method For Calcium Carbonate Content Of Soils
 - User-Friendly Interface
4. Exploring eBook Recommendations from Standard Test Method For Calcium Carbonate Content Of Soils

- Personalized Recommendations
 - Standard Test Method For Calcium Carbonate Content Of Soils User Reviews and Ratings
 - Standard Test Method For Calcium Carbonate Content Of Soils and Bestseller Lists
5. Accessing Standard Test Method For Calcium Carbonate Content Of Soils Free and Paid eBooks
 - Standard Test Method For Calcium Carbonate Content Of Soils Public Domain eBooks
 - Standard Test Method For Calcium Carbonate Content Of Soils eBook Subscription Services
 - Standard Test Method For Calcium Carbonate Content Of Soils Budget-Friendly Options
 6. Navigating Standard Test Method For Calcium Carbonate Content Of Soils eBook Formats
 - ePub, PDF, MOBI, and More
 - Standard Test Method For Calcium Carbonate Content Of Soils Compatibility with Devices
 - Standard Test Method For Calcium Carbonate Content Of Soils Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Standard Test Method For Calcium Carbonate Content Of Soils
 - Highlighting and Note-Taking Standard Test Method For Calcium Carbonate Content Of Soils
 - Interactive Elements Standard Test Method For Calcium Carbonate Content Of Soils
 8. Staying Engaged with Standard Test Method For Calcium Carbonate Content Of Soils
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Standard Test Method For Calcium Carbonate Content Of Soils
 9. Balancing eBooks and Physical Books Standard Test Method For Calcium Carbonate Content Of Soils
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Standard Test Method For Calcium Carbonate Content Of Soils
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Standard Test Method For Calcium Carbonate Content Of Soils
 - Setting Reading Goals Standard Test Method For Calcium Carbonate Content Of Soils
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Standard Test Method For Calcium Carbonate Content Of Soils

- Fact-Checking eBook Content of Standard Test Method For Calcium Carbonate Content Of Soils
 - 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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