



Designation: C471M – 17^ε¹

Standard Test Methods for Chemical Analysis of Gypsum and Gypsum Products (Metric)¹

This standard is issued under the fixed designation C471M; 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 reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

^ε¹ NOTE—Corrected equation reference in 9.6 and restored item (6) to list in 16.1 editorially in August 2017.

1. Scope*

1.1 These test methods cover the chemical analysis of gypsum and gypsum panel products, including gypsum ready-mixed plaster, gypsum wood-fibered plaster, and gypsum concrete.

1.2 The test methods appear in the following order:

	Sections
Preparation of Sample	4
Complete Procedure	5 – 16
Alternative Procedure for Analysis of Free Water in Gypsum Using a Moisture Balance	17
Alternative Procedure for Analysis of Combined Water in Gypsum Using a Moisture Balance	18
Alternative Procedure for Analysis for Calcium Sulfate by Ammonium Acetate Method	19
Alternative Procedure for Analysis for Sodium Chloride by the Coulometric Method	20
Determination of Sand in Set Plaster	21
Wood-Fiber Content in Wood-Fiber Gypsum Plaster	22
Optional Procedure for Analysis for Sodium by the Atomic Absorption Method	23
Optional Procedure for Analysis for Sodium by Flame Photometry	24
Determination of Orthorhombic Cyclooctasulfur (S ₈) in Gypsum Panel Products—General Provisions	25
Determination of Orthorhombic Cyclooctasulfur (S ₈) in Gypsum Panel Products by Gas Chromatograph Equipped with a Mass Spectrometer (GS/MS)	26
Determination of Orthorhombic Cyclooctasulfur (S ₈) in Gypsum Panel Products by Gas Chromatograph Equipped with an Electron Capture Detector (GC/ECD)	27
Determination of Orthorhombic Cyclooctasulfur (S ₈) in Gypsum Panel Products by High-performance Liquid Chromatograph Equipped with and Ultraviolet Detector (HPLC/UV)	28

1.3 The text of this standard references notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

¹ These test methods are under the jurisdiction of ASTM Committee C11 on Gypsum and Related Building Materials and Systems and are the direct responsibility of Subcommittee C11.01 on Specifications and Test Methods for Gypsum Products.

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

1.5 *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, health and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

- C11 Terminology Relating to Gypsum and Related Building Materials and Systems
- C22/C22M Specification for Gypsum
- C28/C28M Specification for Gypsum Plasters
- C59 Specification for Gypsum Casting Plaster and Gypsum Molding Plaster
- C61 Specification for Gypsum Keene's Cement
- C317/C317M Specification for Gypsum Concrete
- C778 Specification for Standard Sand
- C842 Specification for Application of Interior Gypsum Plaster
- D1193 Specification for Reagent Water
- D1428 Test Method for Test for Sodium and Potassium In Water and Water-Formed Deposits by Flame Photometry (Withdrawn 1989)³
- D2013 Practice for Preparing Coal Samples for Analysis
- E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

*A Summary of Changes section appears at the end of this standard