



Designation: **D2961/D2961M – 18a** D2961/D2961M – 19

Standard Practice for Single-Stage Total Moisture Less than 15 % in Coal Reduced to 2.36 mm [No. 8 Sieve] Topsize¹

This standard is issued under the fixed designation D2961/D2961M; 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.

1. Scope*

1.1 This practice covers a single-stage procedure for the determination of total moisture less than 15 % in coal reduced to 2.36 mm [No. 8 sieve] topsize. This practice is for determination of total moisture only. Materials subjected to this test shall not be used in the determination of other test parameters. It is recognized that the conditions of the test can increase the potential for significant oxidation effects on some coals. If the oxidation potential is of concern, the use of this single-stage method shall involve prior agreement between the parties involved. This practice shall not be construed as the referee standard practice for total moisture. For referee purposes, users of this practice are referred to Test Method **D3302/D3302M** for moisture determination methods which are not as susceptible to oxidation effects.

1.2 Statistical analysis of data from several sources indicates that at a 95 % confidence level, there is statistically no difference between the mean value of the results obtained by Practice D2961/D2961M and Test Method **D3302/D3302M** (that is, no bias is detected between the two methods at the 95 % confidence level) for moisture levels between 1.4 % and 15.8 %. These two standards were not compared in this study for some ranks of coal including lignite and anthracite.²

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other, and values from the two systems shall not be combined.

1.4 *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.*

1.5 *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.*

<https://standards.iteh.ai/catalog/standards/sist/16da2c32-778d-43c6-87f0-76c70560f960/astm-d2961-d2961m-19>

2. Referenced Documents

2.1 *ASTM Standards:*³

D121 Terminology of Coal and Coke

D2013/D2013M Practice for Preparing Coal Samples for Analysis

D3302/D3302M Test Method for Total Moisture in Coal

3. Terminology

3.1 *Definitions*—For additional definitions of terms used in this practice, refer to Terminology **D121**.

4. Summary of Practice

4.1 Moisture is determined by establishing the mass loss of the coal sample by drying in an oven with forced-air circulation.

¹ This practice is under the jurisdiction of ASTM Committee **D05** on Coal and Coke and is the direct responsibility of Subcommittee **D05.21** on Methods of Analysis. Current edition approved Dec. 1, 2018/March 1, 2019. Published January 2019/March 2019. Originally approved in 1971. Last previous edition approved in 2018 as **D2961/D2961M – 18**; **D2961/D2961M – 18a**. DOI: [10.1520/D2961-D2961M-18A](https://doi.org/10.1520/D2961-D2961M-18A); [10.1520/D2961-D2961M-19](https://doi.org/10.1520/D2961-D2961M-19).

² Supporting data have been filed at ASTM International Headquarters and may be obtained by requesting Research Report RR:D05-1024. Contact ASTM Customer Service at service@astm.org.

³ 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.

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