



## Standard Method of Preparing Coal Samples for Analysis<sup>1</sup>

This standard is issued under the fixed designation D 2013; 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 epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or approval.

### 1. Scope

1.1 This method<sup>2</sup> covers the reduction and division of gross or divided samples, collected in accordance with Test Methods D 2234, up to and including the individual portions for laboratory analysis.

1.2 Reduction and division procedures are prescribed for coals of the following groups:

1.2.1 *Group A* includes coals that have been cleaned in all sizes.

1.2.2 *Group B* includes all other coals. Unknown coals are to be considered under Group B.

1.2.3 Group A allows smaller weights of laboratory samples to be retained than Group B. These lower weights may be used for particular coals if they have been shown by using the procedure of Annex A1.2 to give a sample preparation and analysis variance which is no more than 20 % of the total allowable variance.

1.3 Two methods are given for preparing the analysis sample for making the moisture determinations:

1.3.1 *Referee Method*—This method shall be used where the possibility of unaccounted changes in moisture content during the reduction and division of the gross or divided sample must be held to a minimum. It is intended to be used for evaluation of nonreferee methods and for testing of equipment. Only under certain conditions will this referee method be directly applicable to routine test programs.

1.3.2 *Nonreferee Method*—This method may be used for routine work.

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

### 2. Referenced Documents

#### 2.1 ASTM Standards:

D 197 Test Method for Sampling and Fineness Test of Pulverized Coal<sup>3</sup>

D 410 Method for Sieve Analysis of Coal<sup>4</sup>

D 431 Method for Designating the Size of Coal from its Sieve Analysis<sup>4</sup>

D 2234 Test Methods for Collection of a Gross Sample of Coal<sup>5</sup>

D 3173 Test Method for Moisture in the Analysis Sample of Coal and Coke<sup>6</sup>

D 3174 Test Method for Ash in the Analysis Sample of Coal and Coke from Coal<sup>6</sup>

D 3302 Test Method for Total Moisture in Coal<sup>7</sup>

E 11 Specification for Wire-Cloth Sieves for Testing Purposes<sup>8</sup>

E 177 Practice for Use of the Terms Precision and Bias in ASTM Test Methods<sup>9</sup>

### 3. Significance and Use

3.1 This method is intended to provide an analysis sample of coal from a gross or divided sample that has been collected in accordance with Test Methods D 2234. In addition, a method to determine the percent air dried moisture loss of the sample is provided. The analysis sample can be used to determine the value of the coal represented, its ability to meet specifications, its environmental impact, as well as for other purposes.

### 4. Definitions of Terms Specific to This Standard

4.1 *air drying*—a process of partially drying coal to bring moisture near to equilibrium with the atmosphere in the room in which further reduction and division of the sample is to take place.

4.2 *analysis sample*—final subsample prepared from the original gross or divided sample but reduced to 100 % through No. 60 (250- $\mu\text{m}$ ) sieve and divided to not less than 50 g.

4.3 *bias (systematic error)*—an error that is consistently negative or consistently positive. The mean of errors resulting from a series of observations which does not tend towards zero.

4.4 *C test*—a standard statistical test for homogeneity of variance.<sup>10</sup>

4.5 *divided sample*—a sample that has been reduced in quantity.

4.6 *gross sample*—a sample representing one lot of coal and

<sup>1</sup> This method is under the jurisdiction of ASTM Committee D05 on Coal and Coke and is the direct responsibility of Subcommittee D05.23 on Sampling.

Current edition approved June 15, 2000. Published September 2000. Originally published as D 2013 – 62 T. Last previous edition D 2013 – 86 (1994).

<sup>2</sup> For more detailed explanation of this method see Keller, G. E., "Determination of Quantities Needed in Coal Sample Preparation and Analysis," *Transactions*, Vol. 232, 1965, pp. 218–226.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol. 05.06.

<sup>4</sup> *Discontinued*; see 1995 *Annual Book of ASTM Standards*, Vol. 05.05.

<sup>5</sup> *Annual Book of ASTM Standards*, Vol. 14.02.

<sup>6</sup> Details appear in standard texts. A good text for this purpose is Grubbs, F. E., "An Introduction to Some Precision and Accuracy of Measurement Problems," *JTIVVA*, Vol. 10, No. 4, July 1962, pp. 133–143.

# Astm Standard Coal Analysis

**ASTM International**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red semi-circular shape behind it.

## **Astm Standard Coal Analysis:**

**ASTM Standards on Coal and Coke** American Society for Testing Materials. Committee D-5 on Coal and Coke,1936  
Handbook of Coal Analysis James G. Speight,2005-05-13 All the guidance needed to test coal and analyze the results With the skyrocketing costs of most fuel sources government industry and consumers are taking a greater interest in coal an abundant and inexpensive alternative which has been made more environmentally friendly through new technology Published in response to this renewed interest Handbook of Coal Analysis provides readers with everything they need to know about testing and analyzing coal Moreover it explains the meaning of test results and how these results can predict coal behavior and its corresponding environmental impact during use The thorough coverage of coal analysis includes Detailed presentation of necessary standard tests and procedures Explanation of coal behavior relative to its usage alongside the corresponding environmental issues Coverage of nomenclature terminology sampling and accuracy and precision of analysis Step by step test method protocols for proximate analysis ultimate analysis mineral matter physical and electrical properties thermal properties mechanical properties spectroscopic properties and solvent properties Emphasis on relevant American Society for Testing and Materials ASTM standards and test methods including corresponding International Organization for Standardization ISO and British Standards Institution BSI test method numbers To assist readers in understanding the material a glossary of terms is provided Each term is defined in straightforward language that enables readers to better grasp complex concepts and theory References at the end of each chapter lead readers to more in depth discussions of specialized topics This is an essential reference for analytical chemists process chemists and engineers in the coal industry as well as other professionals and researchers who are looking to coal as a means to decrease dependence on foreign oil sources and devise more efficient cleaner methods of energy production *A. S. T. M. Standards on Coal and Coke* American Society for Testing Materials. Committee D-5 on Coal and Coke,1944 **A.S.T.M. Standard on Coal and Coke (with Related Information)** American society for testing material. Committee D-5 on coal and coke,1948 **A.S.T.M. Standards on Coal and Coke (with Related Information)** ASTM Committee D-5 on Coal and Coke,1947 **A.S.T.M. Standards on Coal and Coke (with Related Information)** American Society for Testing Materials. Committee D-5 on Coal and Coke,1949 Standard Practice for Preparing Coal Samples for Analysis ASTM International,2012 *ASTM Standards on Coal and Coke* American Society for Testing Materials. Committee D-5 on Coal and Coke,1942 **A.S.T.M. Standards on Coal and Coke** American Society for Testing and Materials. Committee D-5 on Coal and Coke,1959 *A.S.T.M. Standards on Coal and Coke* American Society for Testing Materials. Committee D-5 on Coal and Coke,1947 A.S.T.M. Standards on Coal and Coke American Society for Testing and Materials. Committee D-5 on Coal and Coke,1940 *A.S.T.M. Standards on Coal and Coke, with Related Information* American Society for Testing Materials. Committee D-5 on Coal and Coke,1951 A.S.T.M. Standards on Coal and Coke American Society for Testing Materials. Committee D-5 on Coal and Coke,1940 *ASTM Standards on*

*Coal and Coke (with Related Information)* American Society for Testing and Materials. Committee D-5 on Coal and Coke,1944  
*Laboratory Guidelines and Procedures for Coal Analysis: Analytic procedures for trace elements* ,1990 *Standard Test Methods for Proximate Analysis of the Analysis Sample of Coal and Coke by Instrumental Procedures* ASTM International,2004 **Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa** United States. Bureau of Mines. Technical Library, Pittsburgh,1968 *Standard Test Methods for Proximate Analysis of the Analysis Sample of Coal and Coke by Instrumental Procedures* ASTM Committee D-5 on Coal and Coke,ASTM Subcommittee D05.21 on Methods of Analysis,2009 *Inorganic Geochemistry of Coal* Shifeng Dai,Robert B. Finkelman,James C. Hower,David French,Ian T. Graham,Lei Zhao,2023-06-22 *Inorganic Geochemistry of Coal* explains how to determine the concentrations and modes of occurrence of elements in coal how to diminish adverse effects of toxic elements on the environment and human health which elements in coal could be industrially utilized and which elements can be successfully used as indications for deciphering depositional environments and tectonic evolution As coal use will remain at an all time high for the next several decades there is a critical need for understanding the properties of this fuel to ensure efficient use encourage its economic by product potential and to help minimize its negative technological environmental and health impacts Features dozens of never before published illustrations of critical features of the inorganic geochemistry of coal Covers both the theory and applications of the topic including case studies to serve as real world examples Includes a chapter on the health and environmental impacts of the mining development and use of coal **Standard Methods of Chemical Analysis: Special subjects** Wilfred Welday Scott,Nathaniel Howell Furman,1925

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