



Standard Method of Preparing Coal Samples for Analysis¹

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 (ϵ) indicates an editorial change since the last revision or approval.

1. Scope

1.1 This method² 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 Coal³

D 410 Method for Sieve Analysis of Coal⁴

D 431 Method for Designating the Size of Coal from its Sieve Analysis⁴

D 2234 Test Methods for Collection of a Gross Sample of Coal⁵

D 3173 Test Method for Moisture in the Analysis Sample of Coal and Coke⁵

D 3174 Test Method for Ash in the Analysis Sample of Coal and Coke from Coal⁵

D 3302 Test Method for Total Moisture in Coal⁵

E 11 Specification for Wire-Cloth Sieves for Testing Purposes⁶

E 177 Practice for Use of the Terms Precision and Bias in ASTM Test Methods⁶

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- μ 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.⁶

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

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

¹ 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.

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² 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.

³ *Annual Book of ASTM Standards*, Vol. 05.06.

⁴ *Discontinued*; see 1995 *Annual Book of ASTM Standards*, Vol. 05.05.

⁵ *Annual Book of ASTM Standards*, Vol. 14.02.

⁶ 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," *JTE/VA*, Vol. 10, No. 4, July 1982, pp. 133–143.

Astm Standard Coal Analysis

James G. Speight



Astm Standard Coal Analysis:

A.S.T.M. Standards on Coal and Coke ASTM Committee D-5 on Coal and Coke,1947
and Coke American Society for Testing Materials. Committee D-5 on Coal and Coke,1936
and Coke American Society for Testing Materials. Committee D-5 on Coal and Coke,1944
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 (with Related Information) American Society for Testing Materials. Committee D-5 on Coal and Coke,1949
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. Standard on Coal and Coke (with Related Information) American society for testing material. Committee D-5 on coal and coke,1948
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, with Related Information American Society for Testing Materials. Committee D-5 on Coal and Coke,1951

Coal-Fired Power Generation Handbook James G. Speight,2021-02-17 Rund ein Viertel des weltweiten Energieverbrauchs wird mit Kohle bestritten und von der weltweit gef rderten Kohle werden ca 65 % an Stromerzeuger und 33 % an industrielle Abnehmer geliefert wobei der Rest berwiegend an Verbraucher im privaten und gewerblichen Bereich geht Es wird erwartet dass der Anteil der Kohle am gesamten Energieverbrauch weltweit bis 2035 auf knapp 30 % steigt

Dieses Werk beschreibt die Herausforderungen und die einzelnen Schritte bei der Energieproduktion aus Kohle und befasst sich mit den Herausforderungen beim Umgang mit Umweltschutzbedenken gegen die Nutzung von Kohle in den Kraftwerken der Zukunft. Es werden neue Technologien beschrieben, mit denen die Freisetzung von schädlichen Schwefel, Stickstoff und Quecksilberpartikeln bei der Verbrennung von Kohle zur Stromerzeugung nahezu eliminiert werden kann. Außerdem wird beschrieben, mit welchen Technologien sich die von den Kohlekraftwerken ausgestoßenen Treibhausgase abscheiden lassen und wie es möglich ist zu verhindern, dass diese Emissionen zur globalen Erwärmung beitragen. Das Buch ist von einem der weltweit führenden Energieexperten verfasst und ist ein absolutes Muss für alle Ingenieure, Wissenschaftler und Studierenden in diesem Fachbereich, denn es dient als wertvolles Nachschlagewerk und Leitfaden in einem sich rasch verändernden Umfeld.

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. **The Coal Handbook: Towards Cleaner Production** Dave Osborne, 2013-10-31. Coal is an important fossil fuel resource for many nations due to its large remaining resources, relatively low production and processing cost and potential high energy intensity. Certain issues surround its utilisation, however, including emissions of pollutants and growing concern about climate change. The coal handbook Towards cleaner production Volume 1 reviews the coal production supply chain from analysis to extraction and distribution. Part one explores coal characterisation and introduces the industrial use of coal as well as coal formation, petrography, reserves, sampling and analysis. Part two moves on to review coal extraction and preparation. Chapters highlight advances in coal mining technology, underground coal gas extraction, coal sizing, comminution and cleaning and solid liquid separation technologies for coal. Further chapters focus on economic factors affecting coal preparation, post treatment of coal, coal tailings treatment and the optimisation, simulation and control of coal preparation plants. Finally, part three considers aspects of the coal supply chain, including the management approach and individual functions such as coal blending and homogenisation, transportation and handling along the entire supply chain. With its distinguished editor and international team of expert contributors, The coal handbook Volumes 1 and 2 is a comprehensive and invaluable resource for professionals in the coal mining, preparation and utilisation industry, those in the power sector, including plant operators and engineers and researchers and academics interested in this field. Reviews the coal production supply chain from analysis to extraction and distribution. Explores coal characterisation, formation, petrography, reserves, sampling and analysis. Examines coal extraction and preparation and highlights advances in coal mining technology, underground coal gas extraction, coal sizing, comminution and cleaning and solid liquid separation technologies. **Handbook of Coal Analysis** James G. Speight, 2015-03-30. Provides users with everything they need to know about testing and analysis of coal. Includes new coverage on environmental issues and regulations as related to coal. Provides the reader with the necessary information about testing and analyzing coal and relays the advantages and limitations in understanding the quality and performance of

coal Explains the meaning of test results and how these results can predict coal behavior and its corresponding environmental impact during use Includes a comprehensive Glossary which defines items in straightforward language that enable readers to better understand the terminology related to coal Treats issues related to sampling and accuracy and precision of analysis *Coal Conversion Systems* Institute of Gas Technology,1982 **ASTM Standards on Coal and Coke (with Related Information)** American Society for Testing and Materials. Committee D-5 on Coal and Coke,1944

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 ... Sampling Methods, Chemical Analysis, Methods of Testing, Specifications and Classifications, Definitions of Terms American Society for Testing and Materials,1942 SME Mining Engineering Handbook, Third Edition Peter Darling,Society for Mining, Metallurgy, and Exploration (U.S.),2011 This third edition of the SME Mining Engineering Handbook reaffirms its international reputation as the handbook of choice for today's practicing mining engineer It distills the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals Virtually all of the information is original content representing the latest information from more than 250 internationally recognized mining industry experts Within the handbook's 115 thought provoking chapters are current topics relevant to today's mining professional Analyzing how the mining and minerals industry will develop over the medium and long term why such changes are inevitable what this will mean in terms of challenges and how they could be managed Explaining the mechanics associated with the multifaceted world of mine and mineral economics from the decisions associated with how best to finance a single piece of high value equipment to the long term cash flow issues associated with mine planning at a mature operation Describing the recent and ongoing technical initiatives and engineering developments in relation to robotics automation acid rock drainage block caving optimization or process dewatering methods Examining in detail the methods and equipment available to achieve efficient predictable and safe rock breaking whether employing a tunnel boring machine for development work mineral extraction using a mobile miner or cast blasting at a surface coal operation Identifying the salient points that dictate which is the safest most efficient and most versatile extraction method to employ as well as describing in detail how each alternative is engineered Discussing the impacts that social and environmental issues have on mining from the pre exploration phase to end of mine issues and beyond and how to manage these two increasingly important factors to the benefit of both the mining companies and other stakeholders *Methods for Sampling and Inorganic Analysis of Coal* D. W. Golightly,Frederick Otto Simon,1988 This manual presents a collection of detailed procedures used in geochemical laboratories of the U S Geological Survey for the chemical characterization of coal *The Chemistry and Technology of Coal, Third Edition* James G. Speight,2012-09-04 The demand for coal use for electricity generation and coal products particularly liquid fuels and chemical feedstocks is increasing throughout the world Traditional markets such as North America and Europe are

experiencing a steady increase in demand whereas emerging Asian markets such as India and China are witnessing a rapid surge in demand for clean liquid fuels A detailed and comprehensive overview of the chemistry and technology of coal in the twenty first century The Chemistry and Technology of Coal Third Edition also covers the relationship of coal industry processes with environmental regulations as well as the effects of combustion products on the atmosphere Maintaining and enhancing the clarity of presentation that made the previous editions so popular this book Examines the effects of combustion products on the atmosphere Details practical elements of coal evaluation procedures Clarifies misconceptions concerning the organic structure of coal Discusses the physical thermal electrical and mechanical properties of coal Analyzes the development and current status of combustion and gasification techniques In addition to two new chapters Coal Use and the Environment and Coal and Energy Security much of the material in this edition been rewritten to incorporate the latest developments in the coal industry Citations from review articles patents other books and technical articles with substantial introductory material are incorporated into the text for further reference The Chemistry and Technology of Coal Third Edition maintains its initial premise to introduce the science of coal beginning with its formation in the ground to the production of a wide variety of products and petrochemical intermediates in the twenty first century The book will prove useful for scientists and engineers already engaged in the coal and or catalyst manufacturing industry looking for a general overview or update on the clean coal technology as well as professional researchers and students in chemistry and engineering

Whispering the Secrets of Language: An Mental Journey through **Astm Standard Coal Analysis**

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